

Acceptance Test

Appendix D: Source Code

R.O.S.E.S

(Redesign Of the Software Engineering Site)

Requested by:

Dr. Timoth C. Lederman
Professor
Siena College
Department of Computer Science

Prepared by:

Code Shark Solutions

Kurt Greiner
Daniel Rotondo
Ryan Godfrey
Akeem Shirley
Brittany Lintelman
Rebecca Wilson

Table of Contents

1 Source Code.....	3
1.1 main.css.....	3
1.2 allteam.php.....	10
1.3 allyear.php.....	15
1.4 calendar1.php.....	18
1.5 calendar2.php.....	35
1.6 client.php.....	48
1.7 course.php.....	50
1.8 grade1.php.....	52
1.9 grade2.php.....	55
1.10 includes.php.....	57
1.11 index.php.....	68
1.12 results.php.....	70
1.13 robot.php.....	92
1.14 search.php.....	101
1.15 soft1.php.....	103
1.16 soft2.php.....	104
1.17 speakers.php.....	105
1.18 student.php.....	111
1.19 syllabus1.php.....	114
1.20 syllabus2.php.....	119
1.21 team.php.....	122

1 Source Code

Below is our source code for the R.O.S.E.S. project. We have broken up the sections by each file on the web site, having the source code from that file.

1.1 main.css

```
/* CSS Document */

/*
Styling for the body of the document
*/
body {
    background-color: #7891a7;
    text-align:center;
    font-size:20px;
    color:#FFF;
}

/*
Styling for the main container of the page. All content is
withing this div, including header and footer divs.
*/
#container {
    background-color: #355268;
    min-height:550px;
    width:984px;
    margin: 0 auto;
    text-align:left;
    border: 1px solid #102333;
    padding-bottom:10px;
    clear:both;
}

/*
Styling for the main content of the page. All content is
within this div except header and footer.
*/
#content {
    width:964px;
    margin: 0 auto;
```

```
padding:10px;
}

/*
Styling for the banner of page. The image, banner5.png,
was left as a .png to allow user to modify if desired.
*/
#banner {
background-image:url(../images/banner5.png);
background-repeat:no-repeat;
width:985px;
height:75px;
padding:0;
margin:0;
}

/*
Styling for the main menu of page.
NOTE: If you change this, please realize
you may want to change the make_header($page, $num)
function in includes.php
*/
#main_menu {
width:969px;
background-color:#102333;
margin:0px;
padding-bottom:0px;
padding-left:15px;
}

/*
Styling for links in the main menu div
*/
#main_menu a {
padding: 0px;
margin: 0px;
border: none;
}

/*
Styling for the main menu of page.
NOTE: If you change this, please realize
you may want to change the make_header($page, $num)
function in includes.php
*/
```

```
#sub_menu {  
    width:969px;  
    background-color:#465862;  
    margin:0px;  
    border:0px;  
    padding-top:0px;  
    padding-left:15px;  
}
```

```
/*  
Styling for the footer of page.
```

```
*/  
#footer {  
    background-color:#102333;  
    width:986px;  
    padding-top:20px;  
    padding-bottom:20px;  
    margin:0px auto;  
}
```

```
/*  
Styling for all links on a page.
```

```
*/  
a {  
    text-decoration:none;  
    color:#BBB284;  
}
```

```
/*  
Styling for all hover over links on a page.
```

```
*/  
a:hover {  
    color:#F9E997;  
}
```

```
/*  
Styling for all headers (h1) on a page.
```

```
*/  
h1 {  
    text-align:center;  
}
```

```
/*  
Styling for all text on a page.
```

```
*/  
p {
```

```
        font-size:16px;
    }

    /* Styling for all pre tags in a page. */
    pre {
        font-size:14px;
    }

    /* Home Page CSS */

    /*
    Container for the content on the home page.
    */
    #home {
        width:100%;
        float:left;
        margin:15px;
        padding-bottom:10px;
        clear:both;
    }

    /*
    Container for the software engineering image on home page.
    */
    #home_img {
        float:left;
        width:400px;
        padding-top:150px;
        padding-left:70px;
    }

    /*
    Container for content on home page.
    */
    #home_content {
        float:right;
        width:450px;
        padding-right:10px;
    }

    /*
    Styling for all imgs in the home_content div.
    */
    #home_content img {
        margin-left:120px;
    }
}
```

```
/*
Styling for the current teams on home page.
*/
#current_teams {
    margin-left:auto;
    margin-right:auto;
}

/* Soft Eng. I */

/*
Container for content in SE I page.
*/
#eng1_content {
    float:left;
    padding:15px;
}

/* Styling for Calendars, Speakers, and Killer Robot tables */

/*
Formatting for content of calendar pages.
*/
#calendar {
    margin-left:auto;
    margin-right:auto;
    width:900px;
    height:500px;
    font-size:16px;
    text-align:left;
    overflow-y:scroll;
}

/*
Formatting for calendar menu of calendar pages.
*/
.calendar_menu {
    margin-left:auto;
    margin-right:auto;
    width:80%;
    width:900px;
    text-align:center;
    padding:10px;
}
```

```
/*
Styling for calendar tables
*/
.se_table {
    width:90%;
}

/*
Styling for calendar tables content
*/
.se_table p, blockquote, a, em, strong, ul, li {
    text-align:left;
}

/*
Styling for calendar tables row data
*/
.se_table td {
    padding:10px;
    text-align:left;
}

/* Results - Individual */

/*
#indiv_pic {
    float:left;
    height:300px;
    padding:15px;
    clear:none;
}
#indiv_pic img {
    width:175px;
}
#indiv_content {
    float:right;
    width:300px;
    height:400px;
}
#indiv_content img {
    width:300px;
}

#team {
    width:450px;
```



```
        height:300px;
    }

    #robot {
        text-align:center;
    }

    #speakers {
        font-size:18px;
    }
    */

    /*
    Formatting for content in a result page.
    */
    #table_results {
        margin-left:auto;
        margin-right:auto;
    }

    /*
    Styling for content of result page headers.
    */
    #table_results th {
        width:250px;
    }

    #img_div {
        margin:auto;
        width:300px;
    }

    /*
    #img_div img {
        width:145px;
        height:175px;
    }
    */
```

1.2 allteam.php

```
<?
/**
 * Page that user can view a table of all Software Engineering teams. Includes links to team
 * website and links to all members for each team.
 */
include ("includes.php");
make_header("All Teams");
main_menu("Search");
?>
<h1>All Software Engineering Teams</h1>
<p align="center"><a name="Websites" id="Websites"></a></p>
  <p align="center">Team Websites, 2010-2011<br>
  <a
href="http://www.cs.siena.edu/~lederman/SoftEng/CSIS410%20Teams%20for%20Fall%20201
0.htm">Team Members for Fall 2010</a> - Team Members for Spring 2011</p>

  <table width="90%" align="center" border="1" cellpadding="10" cellspacing="10">
    <tbody><tr>
      <td><p align="center"><a
href="http://oraserv.cs.siena.edu/%7Eperm_empire/"><strong>Empire
Unlimited</strong></a></p></td>
      <td><p align="center"><a
href="http://oraserv.cs.siena.edu/%7Eperm_css/"><strong>Code Shark
Solutions</strong></a></p></td>
    </tr>
  </tbody></table>
  <p align="center">&nbsp;</p>
  <p align="center"><strong>Team Websites, 2009-2010 <a
href="http://www.cs.siena.edu/~lederman/SoftEng/CSIS410%20Teams%20for%20Fall%20200
9.htm">Team Members for Fall 2009</a> -<a
href="http://www.cs.siena.edu/~lederman/SoftEng/CSIS410%20Teams%20for%20Spring%20
2010.htm">Team Members for Spring 2010</a></strong></p>

  <table width="90%" align="center" border="1" cellpadding="10" cellspacing="10">
    <tbody><tr>
      <td><div align="center"><a href="http://oraserv.cs.siena.edu/%7Eperm_518int/">518
Interactive</a></td>
      <td><p align="center"><a href="http://oraserv.cs.siena.edu/%7Eperm_digevol/">Digital
Evolution</a></p></td>
```

[Infinite Solutions](http://oraserv.cs.siena.edu/%7Eperm_infsol/)

Team Websites, 2008-2009 [Team Members for Fall 2008 and Spring 2009](http://www.cs.siena.edu/~lederman/SoftEng/CSIS410%20Teams%20for%20Fall%202008.htm)

--

ID-10t Consultants

Phoenix Tech
--

Team Websites, 2007-2008 [Team Members for Fall 2007](http://www.cs.siena.edu/~lederman/SoftEng/CSIS410%20Teams%20for%20Fall%202007.htm) [Team Members for Spring 2008](http://www.cs.siena.edu/~lederman/SoftEng/CSIS415%20Teams%20for%20Spring%202008.htm)

--

Bad Robot Enterprises

InnoSmart Technologies (Spring 2008)

Orion Technologies
--

(Fall 2007)

SKYNET Software
--

(Fall 2007)

Sonata Software

[NSG Software Development](http://oraserv.cs.siena.edu/%7Eperm_nsgs/)

Team Websites, 2004-2005 [Team Members for Fall 2004](http://www.cs.siena.edu/~lederman/SoftEng/CSIS410%20Teams%20for%20Fall%202004.htm "Team Members for Fall 2002 Siena College")
[Team Members for Spring 2005](http://www.cs.siena.edu/~lederman/SoftEng/CSIS415%20Teams%20for%20Spring%202005.htm)

<p>EdgeTech Development</p> <p>IniTech</p> <p>Paradigm Solutions</p> <p>S E G</p> <p>Spartacus Computing Solutions</p>

Team Websites, 2003-2004 [Team Members for Fall 2003](http://www.cs.siena.edu/~lederman/SoftEng/CSIS410%20Teams%20for%20Fall%202003.htm "Team Members for Fall 2002 Siena College")
[Team Members for Spring 2004](http://www.cs.siena.edu/~lederman/SoftEng/CSIS415%20Teams%20for%20Spring%202004.htm)

<p>Advanced Digital Data</p>
--

```
<td><p align="center"><a href="http://oraserv.cs.siena.edu/%7Eperm_bluetech/"> Blue
Technologies</a> </p></td>
<td><p align="center"><a href="http://oraserv.cs.siena.edu/%7Eperm_falcon/"> Falcon
Enterprises</a> </p></td>
<td><p align="center"><a href="http://oraserv.cs.siena.edu/%7Eperm_mirage/">
Mirage</a> </p></td>
<td><p align="center"><a href="http://oraserv.cs.siena.edu/%7Eperm_vdtech/"> Visual
Design Technologies</a> </p></td>
```

```
</tr>
</tbody></table>
```

```
<p align="center">&nbsp;</p>
<p align="center"><strong>Team Websites, 2002-2003 <a
href="http://www.cs.siena.edu/~lederman/SoftEng/CSIS410%20Teams%20for%20Fall%20200
2.htm" title="Team Members for Fall 2002 Siena College">Team Members for Fall 2002</a>
<a
href="http://www.cs.siena.edu/~lederman/SoftEng/CSIS415%20Teams%20for%20Spring%20
2003.htm">Team Members for Spring 2003</a> </strong></p>
```

```
<table width="90%" align="center"border="1" cellpadding="10" cellspacing="10">
<tbody><tr>
<td><p align="center"><a href="http://oraserv.cs.siena.edu/%7Eperm_fna">FNA
Technologies</a> </p></td>
<td><p align="center"><a href="http://oraserv.cs.siena.edu/%7Eperm_foundry">Digital
Foundry</a> </p></td>
<td><p align="center"><a
href="http://oraserv.cs.siena.edu/%7Eperm_odyssey">Odyssey Information Systems</a>
</p></td>
<td><p align="center"><a
href="http://oraserv.cs.siena.edu/%7Eperm_pipeline">Pipeline Industries</a> </p></td>

<td><p align="center"><a href="http://oraserv.cs.siena.edu/%7Eperm_sharpe">Sharpe
Software</a> </p></td>
</tr>
</tbody></table>
```

```
<?
make_footer();
?>
```

1.3 allyear.php

```
<?
/**
 * Page that user can view a table of all Software Engineering years. Includes links a list of
 teams for that year.
 */
include ("includes.php");
make_header("All Teams");
main_menu("Search");
?>
<h1>All Software Engineering Course Years</h1>
  <p align="center">(for which we have records)</p>
  <table align="center" width="90%" border="1" cellpadding="0">
    <tbody><tr>
      <td valign="middle" align="center"><p align="center"><a
href="http://www.cs.siena.edu/~lederman/SoftEng/all-
time%20list%20of%20teams_new.htm#1984">1984-1985</a></p></td>

      <td valign="middle" align="center"><p align="center"><a
href="http://www.cs.siena.edu/~lederman/SoftEng/all-
time%20list%20of%20teams_new.htm#1989">1989-1990</a></p></td>
      <td valign="middle" align="center"><p align="center"><a
href="http://www.cs.siena.edu/~lederman/SoftEng/all-
time%20list%20of%20teams_new.htm#1994">1994-1995</a></p></td>
      <td valign="middle" align="center"><p align="center"><a
href="http://www.cs.siena.edu/~lederman/SoftEng/all-
time%20list%20of%20teams_new.htm#1999">1999-2000</a></p></td>
      <td valign="middle" align="center"><p align="center"><a
href="http://www.cs.siena.edu/~lederman/SoftEng/all-
time%20list%20of%20teams_new.htm#2004">2004-2005</a></p></td>
      <td valign="middle" align="center"><p align="center"><a
href="http://www.cs.siena.edu/~lederman/SoftEng/all-
time%20list%20of%20teams_new.htm#2009">2009-2010</a></p></td>
    </tr>

    <tr>
      <td valign="middle" align="center"><p align="center"><a
href="http://www.cs.siena.edu/~lederman/SoftEng/all-
time%20list%20of%20teams_new.htm#1985">1985-1986</a></p></td>
      <td valign="middle" align="center"><p align="center"><a
href="http://www.cs.siena.edu/~lederman/SoftEng/all-
time%20list%20of%20teams_new.htm#1990">1990-1991</a></p></td>
```

<td valign="middle" align="center"><p align="center">1995-1996</p></td>

<td valign="middle" align="center"><p align="center">2000-2001</p></td>

<td valign="middle" align="center" style="border: 1px solid black;"><p align="center" style="border: 1px solid black;">2005-2006</p></td>

<td valign="middle" align="center" style="border: 1px solid black;"><p align="center" style="border: 1px solid black;">2010-2011</p></td>

</tr>

<tr>

<td valign="middle" align="center"><p align="center">1986-1987</p></td>

<td valign="middle" align="center"><p align="center">1991-1992</p></td>

<td valign="middle" align="center"><p align="center">1996-1997</p></td>

<td valign="middle" align="center"><p align="center">2001-2002</p></td>

<td valign="middle" align="center" style="border: 1px solid black;"><p align="center" style="border: 1px solid black;">2006-2007</p></td>

<td align="center"> </td>

</tr>

<tr>

<td valign="middle" align="center"><p align="center">1987-1988</p></td>

<td valign="middle" align="center"><p align="center">1992-1993</p></td>

<td valign="middle" align="center"><p align="center">1997-1998</p></td>

<td valign="middle" align="center"><p align="center">2002-2003</p></td>


```
<td valign="middle" align="center"><p style="text-align:center"> <a
href="http://www.cs.siena.edu/~lederman/SoftEng/all-
time%20list%20of%20teams_new.htm#2007">2007-2008</a></p></td>
<td valign="middle" align="center">&nbsp;</td>
</tr>
<tr>
<td valign="middle" align="center"><p align="center"><a
href="http://www.cs.siena.edu/~lederman/SoftEng/all-
time%20list%20of%20teams_new.htm#1988">1988-1989</a></p></td>
<td valign="middle" align="center"><p align="center"><a
href="http://www.cs.siena.edu/~lederman/SoftEng/all-
time%20list%20of%20teams_new.htm#1993">1993-1994</a></p></td>

<td valign="middle" align="center"><p align="center"><a
href="http://www.cs.siena.edu/~lederman/SoftEng/all-
time%20list%20of%20teams_new.htm#1998">1998-1999</a></p></td>
<td valign="middle" align="center"><p align="center"><a
href="http://www.cs.siena.edu/~lederman/SoftEng/all-
time%20list%20of%20teams_new.htm#2003">2003-2004</a></p></td>
<td valign="middle" align="center"><p align="center"><a
href="http://www.cs.siena.edu/~lederman/SoftEng/all-
time%20list%20of%20teams_new.htm#2008">2008-2009</a></p></td>
<td valign="middle" align="center">&nbsp;</td>
</tr>
</tbody></table>
<?
make_footer();
?>
```

1.4 calendar1.php

```
<?
/**
 * Calendar page for Software Engineering One (I). When the user first loads the page, if
 within the semester, will go directly to
 * the next nearest date on the calendar. If not loaded within the semester, will load normally.
 *
 * User also has the option to choose a date to go to within the calendar with a drop down
 menu. If they choose a date within the semester,
 * they'll be directed to the nearest date on the calendar. Otherwise, they'll receive an alert that
 they chose a date outside of the semester.
 */
include ("includes.php");
make_header("Software Engineering I");
main_menu("Calendar I", 1);

// Executes the JavaScript functions in includes.php
// NOTE TO EDITOR: Must change var begin and var end before beginning of semester in
includes.php php function goToDate1() inside javascript function Calendar (form).
goToDate1();
?>
<!-- calls the JavaScript goToDate() function which is in the includes.php file when page loads
-->
<body onLoad="goToDate()">

<h1>Software Engineering I - Calendar</h1>
<p><strong>COURSE CALENDAR FOR THE FALL 2010 SEMESTER</strong>, calendar
for the <u><a href="calendar2.php">spring semester</a></u>.</p>

<!-- Executes the cal_dropdown function in the includes.php file, to make drop down menu of
dates -->
<? cal_dropdown("calendar1.php"); ?>

<!--
NOTE TO EDITOR:
Each anchor like (eg. <a name="September08"></a> ) must be inside the <td> tags. These will
have to
be updated each year to correspond with the new calendar. The current format is as follows
<tr valign="top">
    <td><a name="MonthDay"></a><a name="MonthDay"></a><a
name="MonthDay"></a>etc... Month</td>
    <td>Day</td>
    <td>In-Class Activities</td>
```

```

    <td>Assignments</td>
  </tr>
-->
<div id="calendar">
<table class="se_table" border="1" cellpadding="1" cellspacing="1">
  <tr valign="top">
    <td>Month</td>
    <td>Day</td>
    <td>In-Class Activities</td>
    <td>Assignments</td>
  </tr>
  <tr valign="top">

    <td><a name="September08"></a>September</td>
    <td>8</td>
    <td>Orientation</td>
    <td>Send instructor e-mail nominatinos for team leaders</td>
  </tr>
  <tr valign="top">

    <td><a name="September09"></a><a name="September10"></a>September</td>
    <td>10</td>
    <td>
    <ul>
      <li>Vote on Team/Group Leaders (in class)</li>
      <li>email/voicemail etiquette</li>
      <li>How to shake hands and make introductions</li>
      <li>Teams/Groups formed by team leaders & Dr. Lederman (after class)</li>
    </ul>
    </td>
    <td><ul>
      <li>Definition: Software Engineering</li>
      <li>E-mail etiquette</li>
      <li>Phone & Voicemail etiquette</li>
      <li>Get your resume ready </li>
    </ul>
    </td>
  </tr>
  <tr valign="top">

    <td><a name="September11"></a><a name="September12"></a><a
name="September13"></a>September</td>
    <td>13</td>
    <td><ul>

      <li>Discuss first meeting with client</li>

```


- Team leaders give instructor team-name and team-member "titles/roles" (in email)**

- Discuss document format and contents**

Discuss PPT format and content

Documents delivered BY NOON

- PRESENTATION: *Software Plan*

(Document & Presentation are 10% of final grade)

- Turn-in rating sheets: [members](#) & [leaders](#), [Log of Activities.xls](#), [Attendance Sheet for Team Leaders.xls](#) attendance sheets

- Discuss website Guidelines

- Discussion: [Requirements Specification Outlines](#)

- Resume' is due (1st draft; and, Career Center correction/recommendation sheet; and, redraft)

```

        </ul></td>
</tr>
<tr valign="top">
  <td><a name="September25"></a><a name="September26"></a><a
name="September27"></a>September</td>
  <td>27</td>
  <td><ul>
    <li>Debrief on presentations</li>
    <li>Discussion on discovering requirements via client interviews, etc</li>
    <li>Development of User Case Narratives (Usage Narratives) as an analysis
tool</li>
  </ul></td>
<td><ul>
  <li>User Case narratives - <a href="http://training.teksystems.com/blog/Usage-
narrative-17.post">Usage Narratives</a></li>

  <!--THIS IS HOW YOU HAVE TO USE ANCHORS!-->      <li><a
href="http://en.wikipedia.org/wiki/Software_Requirements_Specification">Software
Requirements Specifications</a></li>
</ul></td>
</tr>
<tr valign="top">
  <td><a name="September28"></a><a name="September29"></a>September</td>
  <td>29</td>
  <td><ul>
    <li><strong> Dr. Lim will discuss <a
href="http://www.andrew.cmu.edu/course/90-754/umlucdfaq.html">UML Use
Cases</a></strong></li>
    <li><strong>Mock Interview Requirements</strong></li>
  </ul></td>
<td><ul>
  <li><a
href="http://www.comptechdoc.org/independent/uml/begin/umlusecase.html">UML Use Case
Diagram</a></li>
  <li><a href="http://en.wikipedia.org/wiki/Requirements_analysis#Contract-
style_requirement_lists">Functional Requirements Inventory</a></li>

  <li><a href="http://en.wikipedia.org/wiki/Non-functional_requirement">Non-
Functional Requirements</a></li>
</ul></td>
</tr>
<td><a name="September30"></a><a name="October01"></a>October</td>
<td>1</td>

```

```

<td><ul>
    <li><strong>Critique of team websites by Dr. Breimer & Dr.
Lederman</strong></li>
    <li><strong>Team Organization</strong></li>
</ul></td>
<td><ul>
    <li>Team websites created and up-to-date by this morning's class</li>
    <li><a href="SE%20Team%20Structures.ppt">Models for Team
Organization/Structure (ppt)</a></li>

    </ul></td>
</tr>
<tr valign="top">
    <td><a name="October02"></a><a name="October03"></a><a
name="October04"></a>October</td>
    <td>4</td>
    <td><ul>
        <li><a
href="http://jobsearchtech.about.com/gi/dynamic/offsite.htm?zi=1/XJ/Ya&amp;sdn=jobsearcht
ech&amp;cdn=careers&amp;tm=15&amp;f=00&amp;tt=14&amp;bt=1&amp;bts=1&amp;zu=h
ttp%3A//www.acetheinterview.com/qanda/">Interviews</a></li>
        <li><strong>Job-Interview Mistakes</strong> <a
href="http://www.quintcareers.com/interview_mistakes.html">List 1</a>; <a
href="http://www.milc-
inc.org/COMMON%20MISTAKES%20PEOPLE%20MAKE%20ON%20JOB%20INTERVIE
WS.htm">List 2</a>; <a href="http://www.argus-tech.com/interview/d_d15.htm">List 3</a>;
<a href="http://www.squidoo.com/jobinterviewmistakes">List 4</a></li>

        <li><strong>Functional Requirements Inventory</strong></li>
    </ul></td>
</td><ul>
    <li><strong> <a href="http://www.techinterviews.com/">IT
Interviews</a></strong>; <a
href="http://itmanagement.earthweb.com/career/article.php/3763291">more</a></li>
</ul></td>
</tr>
<tr valign="top">
    <td><a name="October05"></a><a name="October06"></a>October</td>
    <td>6</td>
    <td><ul>
        <li><strong>Information about Graduate School</strong><br />
        - Amanda Danko, SUNYA<br />
        - Iam Macdonald, College of St. Rose<br />

        - Chris Vincek, RPI</li>
    </ul>

```

[Salary/Offers; Interview Follow-Up](http://jobsearchtech.about.com/gi/dynamic/offsite.htm?zi=1/XJ/Ya&sdn=jobsearchtech&cdn=careers&tm=15&f=00&tt=14&bt=1&bts=1&zu=http%3A//www.acetheinterview.com/qanda/)

[Data Flow Diagrams](http://spot.colorado.edu/~kozar/DFDtechnique.html) ([a SSADM technique](http://en.wikipedia.org/wiki/Structured_Systems_Analysis_and_Design_Methodology))

Check the [Links Page](CSIS-410-links.htm) for DFD information

[Nadler's Contract](#)

[Independent Contractor](http://en.wikipedia.org/wiki/Independent_contractor)

[Independent Contractor Checklist](http://smallbusiness.findlaw.com/business-forms-contracts/business-forms-contracts-a-to-z/form1-21.html)

[IRS Information](http://www.irs.gov/businesses/small/article/0,,id=99921,00.html)

[Teams present UML Use case Diagram](#)

(critiques by Dr. Lim & Dr. Lederman)
 Exam Review
 </td>
 <td>
 NYS Civil
 Service

 Information Technology Specialist
 </td>
 </tr>
 <tr valign="top">
 <td>October</td>
 <td>15</td>
 <td><p>President's Holiday - no classes</p></td>
 <td> </td>
 </tr>
 <tr valign="top">
 <td>October</td>
 <td>18</td>
 <td><p>Mid-term exam (25% of final grade)</p></td>
 <td>
 Remember to check into scheduling a Mock Interview
 Read the email instructions from Dr. Lederman
 Read the job posting - check out company website
 Bring with you to the interview:

 Resume
 <a href="http://office.microsoft.com/en-
 us/templates/TC060914491033.aspx">Cover letter
 <a href="http://www.google.com/search?hl=en&client=firefox-
 a&rls=org.mozilla:en-
 US:official&hs=RUX&q=job+references+list&revid=371695199&sa=X&a
 mp;oi=revisions_narrow&resnum=5&ct=revision&cd=1">List of
 references
 Copy of job posting
 Transcript (or, readable CAPP
 report)

 email Cover Letter & Thank-You Letter to Dr. L within
 24 hours after

```

        </ul></td>
</tr>
<tr valign="top">
  <td><a name="October19"></a>October</td>
  <td>19</td>
  <td><p><em><strong>Tell me ALL about yourself</strong></em> - <br />
    <em><strong>in 10 words or less</strong></em> ===&gt;&gt;&gt;</p>
</td>
  <td><p> <strong>Writing Strong Cover Letters & Resumes</strong><br />
    October 19th 4:00 PM- 5:00 PM, Library L-26<br />
    <a href="https://siena-csm.symplicity.com/students/">RSVP in CareerSaint</a>,
or you may call the Career Center- 518-783-2339</p>
  </td>
</tr>
<tr valign="top">
  <td><a name="October20"></a>October</td>
  <td>20</td>
  <td><p><strong>Data Flow Analysis </strong></p>
</td>
  <td><p>See <a href="CSIS-410-links.htm">Links Page</a></p></td>
</tr>
<tr valign="top">
  <td><a name="October21"></a><a name="October22"></a>October</td>
  <td>22</td>
  <td><p><strong>Teams present Data Flow Diagrams <br />
    (Context Diagram, Level 0 Diagram, and a Level 1 Diagram for one process
shown in Level 0)</strong></p>
</td>
  <td><p>FDs in Requirements Specification document should be developed down to Level 1
for all processes shown in the Level 0 diagram (if a Level 1 diagram is warranted).</p>
  </td>
</tr>
<tr valign="top">
  <td><a name="October23"></a><a name="October24"></a><a
name="October25"></a>October</td>
  <td>25</td>
  <td><ul>
    <li><strong>Go over exam</strong></li>

    <li><strong>Advice on presentations: Requirements Specification </strong></li>
  </ul></td>
  <td><p><strong><em>You aren't just going to GIVE me the job?!</em></strong><br />
    Interview Prep Workshop, Speaker: Career Center Staff<br />
    October 25th 4:00 PM- 5:00 PM, Library L-26 <br />
    To attend, you must <a href="https://siena-csm.symplicity.com/students/">RSVP in
CareerSaint</a>, or you may call the Career Center- 518-783-2339.</td></p>

```

```

</tr>
<tr valign="top">
  <td>&nbsp;&nbsp;&nbsp;</td>
  <td>&nbsp;&nbsp;&nbsp;</td>
  <td>&nbsp;&nbsp;&nbsp;</td>
  <td><blockquote>
    <p><strong>Mock Interview</strong>s<br />
    Standish Library, Room 212<br />
    6-9 pm; 45 minute sessions<br />
    Book you spot on sheets outside RB-326</p>
  </blockquote></td>
</tr>
<tr valign="top">
  <td><a name="October26"></a><a name="October27"></a>October</td>
  <td>27</td>
  <td><ul>
    <li>No formal/required class meeting.</li>
    <li> Team Meeting during class time?<br />
    Dr. Lederman will be available</li>
  </ul></td>
  <td><blockquote><strong>Mock Interview</strong>s<br />
    Standish Library, Room 212<br />
    6-9 pm; 45 minute sessions<br />
    Book you spot on sheets outside RB-326</blockquote></td>
</tr>
<tr valign="top">
  <td>&nbsp;&nbsp;&nbsp;</td>
  <td>&nbsp;&nbsp;&nbsp;</td>
  <td>&nbsp;&nbsp;&nbsp;</td>
  <td><blockquote>
    <p><strong>Mock Interview</strong>s<br />
    Standish Library, Room 212<br />
    6-9 pm; 45 minute sessions<br />
    Book you spot on sheets outside RB-326</p>
  </blockquote></td>
</tr>
<tr valign="top">
  <td><a name="October28"></a><a name="October29"></a>October</td>
  <td>29</td>
  <td><ul>
    <li>No formal/required class meeting.</li>
    <li> Team Meeting during class time?<br />

```

Dr. Lederman will be available
 Documents delivered to clients and Dr. Lederman by noon (hardcopy)
 </td>
 <td>
 Team websites updated by midnight.
 </td>
 </tr>
 <tr valign="top">
 <td>November</td>
 <td>1</td>
 <td>
 Powerpoint Handouts are due for all teams
 ALL TEAMS Members and Leaders turn-in appropriate rating sheets, cumulative logs, cumulative attendance sheets

 <blockquote>
 <p>PRESENTATION:
 Requirements Specification
(Document & Presentation: 20% of final grade)</p>
 </blockquote></td>
 <td> </td>
 </tr>
 <tr valign="top">
 <td>November</td>
 <td>3</td>
 <td><blockquote>
 <p>PRESENTATION:
 Requirements Specifications
 (Document & Presentation: 20% of final grade)</p>
 </blockquote></td>
 <td><blockquote>Dining Etiquette - Dinner/Seminar
 5:20-7:00 pm (dress up)
 Massry Dining Room, New Hall 166
 Purpose: social etiquette, dining etiquette, what to order, what not to drink, how to politely not eat what you are served, etc
</blockquote></td>
 </tr>
 <tr valign="top">
 <td>November</td>
 <td>5</td>
 <td>

A Thank You card should be delivered to Norm (Serra Hall) by noon today (signed by all members of the team)

Debrief on presentations

Discussion: Design Outlines

Data Definition

Discuss Data Dictionary (Data Repository)

</td>

<td><a

href="http://www.umsl.edu/~sauterv/analysis/dfd/DATA_DIC.HTM">Data Dictionary - full form

Data Dictionary - spreadsheet rows

Data Dictionary - form - dbms table - ERD

Data Dictionary - spreadsheet - verbose entries

Data Dictionary - format explained for real example

DD Creator application - database definition

</td>

</tr>

<tr valign="top">

<td>November</td>

<td>8</td>

<td>

Dr. Lim - UML Deployment Diagrams, Activity Diagrams, and Website Maps

Go over UML & Data Flow Diagrams with each team

Go over Functional Requirements Inventory with each team(not really necessary)

</td>

<td><blockquote>UML Deployment Diagrams, Activity Diagrams, and Website Maps</blockquote></td>

</tr>

<tr valign="top">

<td>November</td>

<td>9</td>

<td><blockquote>

Speed Networking Night
November 9, 2010, 5:30 PM – 6:30 PM

New Dorm Conference Rooms 159-161
Speed Dating Format - low-pressure and fast paced; meet people working in careers totally unrelated to their majors (or not!); ask them for advice about graduate programs. [RSVP in CareerSaint](https://siena-csm.symplicity.com/students/)

November
10

- User Interface Designs**
- Discuss [Software Testing](SoftwareTestingDefinitions.htm)**
- Discuss how much of a Test Plan is needed in the Preliminary Design**

November
11

- Software Testing Strategies**
- Each team will lead a discussion on one set of Interface Rules on Friday

November
12

- [Three Golden Rules for User Interface Design](http://www.uwplatt.edu/csse/courses/prev/s07/se333/notes/333ui01.html)**
- [Eight Golden Rules for User Interface Design](https://www.iterasi.net/OpenViewer.aspx?sqlritid=XzwIZd6DcEiS1ZpTNsPkHA)**
- [Ten Usability Heuristics](http://www.useit.com/papers/heuristic/heuristic_list.html)**

[Interface Hall of Shame](http://homepage.mac.com/bradster/iarchitect/shame.htm)

[The BUI Gallery](http://www.buigallery.com/)

[This Is Broken](http://www.goodexperience.com/tib/archives/webtech/)

[Bad User Interface Design Can Be Deadly](http://www.masternewmedia.org/news/2005/04/17/bad_user_interface_design_can.htm)

[Usernomics](http://www.usernomics.com/user-interface-design.html)

[Designing Drop-Down Menus](http://www.smashingmagazine.com/2009/03/24/designing-drop-down-menus-examples-and-best-practices/)

[User Interface Design and Usability](http://www.isii.com/ui_design.html)

[November 13](#) [November 14](#) [November 15](#)

15

- Bring questions on Unit Tests to class**

- Unit Tests (and catalog) discussed in class**

- Team meeting, if time allows**

[Unit Tests - Crude Template.xlsx](#) Example Unit Test Sample

[November 16](#) [November 17](#) November

17

Develop Unit Tests in class

[November 17](#) [November 18](#) [November 19](#)

19

Teams present sample unit tests

Provide (via email) sample entries for two units

[November 20](#) [November 21](#) [November 22](#)

```

<td>22</td>
<td><ul>
  <li><strong>Discuss Data Dictionary - Data Definition</strong></li>
  <li><strong>Attendance is optional</strong></li>
  <li><strong>Team Meeting is up to a team vote</strong><br />
    </li>
</ul></td>
<td>&nbsp;</td>
</tr>
<tr valign="top">
  <td><a name="November23"></a><a name="November24"></a>November</td>
  <td>24</td>
  <td><blockquote class="style40">Thanksgiving Break</blockquote></td>
  <td>&nbsp;</td>
</tr>
<tr valign="top">
  <td><a name="November25"></a><a name="November26"></a>November</td>
  <td>26</td>
  <td><blockquote class="style40">Thanksgiving Break</blockquote></td>
  <td>&nbsp;</td>
</tr>
<tr valign="top">
  <td><a name="November27"></a><a name="November28"></a><a
name="November29"></a>November</td>
  <td>29</td>
  <td><ul>
    <li><strong> Data Dictionary example from each team</strong></li>
    <li><strong>Team Meeting</strong></li>
  </ul></td>
  <td><blockquote>Provide (via email) sample entries from two units</blockquote></td>
</tr>
<tr valign="top">
  <td><a name="November30"></a><a name="December01"></a>December</td>
  <td>1</td>
  <td><blockquote><strong>Development vs Production
Environments</strong></blockquote></td>
  <td>&nbsp;</td>
</tr>
<tr valign="top">
  <td><a name="December02"></a><a name="December03"></a>December</td>
  <td>3</td>
  <td><blockquote><strong>Review for Final Exam (25% of final
grade)</strong></blockquote></td>
  <td>&nbsp;</td>
</tr>

```


<p><tr valign="top"> <td>December</td></p>	<p><td>6</td></p>
<p><td><blockquote><p>PPT discussion – Team Meeting</p></blockquote></td></p>	<p><td>&nbsp;</td></p>
<p><tr valign="top"> <td>December</td></p>	<p><td>7</td> <td>&nbsp;</td> <td><blockquote><p>Documents delivered BY NOON</p></blockquote></td></p>
<p><tr valign="top"> <td>December</td></p>	<p><td>8</td> <td> Powerpoint Handouts are due for all teams ALL TEAMS Members and Leaders turn-in updated resume, appropriate rating sheets, cumulative logs, cumulative attendance sheets <blockquote></p>
<p><td></p>	<p><p>PRESENTATION:
 Preliminary Design
 (Document & Presentation: 20% of final grade)</p> </blockquote></p>
<p><td> Turn-in rating sheets - for only the Preliminary Design Turn in log - cumulative for entire semester Turn in attendance sheets for entire semester (Team Leader) Turn in updated resume
 - you must include Software Engineering (look at resumes from last year)
 - a review by Career Center is NOT required </td></p>	<p></td></p>

```
<td><a name="December09"></a><a name="December10"></a>December</td>
<td>10</td>
<td><blockquote><strong><span>PRESENTATION:<em> <br />
  Preliminary Design </em><br />
  </span>(Document & Presentation: 20% of final
grade)</strong></blockquote></td>
<td>&nbsp;</td>
</tr>
<tr valign="top">
<td><a name="December12"></a><a name="December13"></a>December</td>
<td>13</td>
<td><blockquote>
  <p><strong><span>Final Exam Review</span></strong></p>
</blockquote></td>
<td><blockquote>
  <p><strong>Team Websites</strong> should be up-to-date by 8:00 am 14
December</p>
</blockquote></td>
</tr>
<tr valign="top">
<td><a name="December14"></a><a name="December15"></a><a
name="December16"></a><a name="December17"></a><a name="December18"></a><a
name="December19"></a><a name="December20"></a><a
name="December21"></a>December</td>
<td>14 - 21</td>
<td><blockquote>
  <p><strong>Reading Day (14th) & <br />
  Final Exam (20th at 6pm RB-328)</strong></p>
</blockquote></td>
<td><blockquote><strong>Team Websites</strong> should be up-to-date by 8:00 am 14
December</blockquote></td>
</tr>
</table>
</div>
<?
make_footer();
?>
```

1.5 calendar2.php

```
<?
/**
 * Calendar page for Software Engineering Two (II). When the user first loads the page, if
 within the semester, will go directly to
 * the next nearest date on the calendar. If not loaded within the semester, will load normally.
 *
 * User also has the option to choose a date to go to within the calendar with a drop down
 menu. If they choose a date within the semester,
 * they'll be directed to the nearest date on the calendar. Otherwise, they'll receive an alert that
 they chose a date outside of the semester.
 */
include ("includes.php");
make_header("Software Engineering II");
main_menu("Calendar II", 2);

// Executes the JavaScript function in includes.php
// NOTE TO EDITOR: Must change var begin and var end before beginning of semester in
includes.php php function goToDate2() inside javascript function Calendar (form).
goToDate2()
?>
<!-- calls the JavaScript goToDate() function which is in the includes.php file when page loads
-->
<body onLoad="goToDate()">

<h1>Software Engineering II - Calendar</h1>
<p><strong>COURSE CALENDAR FOR THE SPRING 2011 SEMESTER</strong>,
calendar for the <u><a href="calendar1.php">fall semester</a></u>.</p>

<!-- Executes the cal_dropdown function in the includes.php file, to make drop down menu of
dates -->
<? cal_dropdown("calendar2.php"); ?>
<!--
NOTE TO EDITOR:
Each anchor like (eg. <a name="September08"></a> ) must be inside the <td> tags. These will
have to
be updated each year to correspond with the new calendar. The current format is as follows
<tr valign="top">
    <td><a name="MonthDay"></a><a name="MonthDay"></a><a
name="MonthDay"></a>etc... Month</td>
    <td>Day</td>
    <td>In-Class Activities</td>
    <td>Assignments</td>
```

```

</tr>
-->
<div id="calendar">
<table class="se_table" border="1" cellpadding="1" cellspacing="1">
  <tr>
    <td valign="top"><a name="January18"></a>
    <strong>Tuesday<br />
    January </strong><strong>18</strong></td>
    <td align="right"><em>Lecture:</em></p>

    <p align="right"><em>In-Class Movie:</em></p></td>
    <td align="right"><em>CANCELLED in trade for required out-of-class activities</i></p></td>
  </tr>
  <tr>
    <td valign="top"><a name="January19"><a name="January20"></a><a
name="January21"></a><a name="January22"></a><a name="January23"></a><a
name="January24"></a><a name="January25"></a>
    <strong>Tuesday<br />
    January </strong><strong>25</strong></td>
    <td align="right"><em>Lecture:</em></p>

    <p align="right"><em>In-Class Movie:</em></p></td>
    <td align="right"><p>Syllabus, course schedule, speakers, discussions, and <a
href="http://www.cs.state.ny.us/">NYS Department of Civil Service</a><br />
Cover letters, thank-you letters, graduate school references<br />
<a href="CSIS-415-robot-discussions.htm">"The Case of the Killer Robot"</a>:
Introduction by Dr. Lederman</p>

    <p>"<a
href="http://www.umich.edu/%7Eumfandsf/film/films/forbidden_planet.html">The Forbidden
Planet</a>" (1956, 98 minutes). See the original <em><a
href="http://en.wikipedia.org/wiki/Robby_the_Robot">Robby the Robot</a></em>.
<em><strong>Shown in class.</strong></em></p></td>
  </tr>
  <tr>
    <td></td>
    <td></td>
    <td></td>
  </tr>
  <tr>
    <td valign="top"><a name="January26"></a><a name="January27"></a><a
name="January28"></a><a name="January29"></a><a name="January30"></a><a
name="January31"></a><a name="February01"></a><a name="February02"></a><a
name="February03"></a><a name="February04"></a><a name="February05"></a><a
name="February06"></a><a name="February07"></a><a

```

name="February08"><s>February
</s><s>1</s>

cancelled</p>
<p>February 8</p></td>
<td>
<p align="right" class="style18">Lecture:</p>
<p align="right" class="style18">
</p>
<p align="right" class="style18">

Discussion:

</p>
<p align="right" class="style18">Discussion:

</p>
</td>
<td><p>NYS Department of Civil Service</p>
<p>Detailed Design
Outline</p>
<p>Employee Benefits
I</p>
</blockquote>
<p>"The Case of the Killer Robot", led by Empire Unlimited

1. Silicon Valley
programmer indicted for manslaughter</p>
<p>"The Case of the Killer Robot", led by Code Shark Solutions

2. Developers of
"Killer Robot" worked under enormous stress </p></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td valign="top">Tuesday

February 15</td>
<td class="style25"><p align="right" class="style18">Turn-in:</p>
<p align="right" class="style18">

Presentation:

</p>
<p align="right" class="style18"> </p>
<p align="right" class="style18">Discussion:


```

        <br />
    </strong></p>
    <p align="right"><span class="style18"><strong>Discussion:<br />

    </strong></span><br />
    </p></td>
    <td class="style18"><p><strong>1. draft <em><a
href="http://en.wikipedia.org/wiki/IEEE_829">Test</a> <a
href="http://en.wikipedia.org/wiki/Test_Plan#Test_plan_template.2C_IEEE_829_format">Plan
</a> </em>: <a href="http://www.coleyconsulting.co.uk/testplan.htm">Test Plan
Overview</a>; <a href="http://www.coleyconsulting.co.uk/IEEE829.htm">an outline of IEEE
829 documentation</a></strong><br />
    <strong>2. Name of Team Song's music</strong></p>

    <p class="style18"><strong>Das Nobel</strong>, BS in Computer Science (Siena,
2006), MS in IT Management (Colorado Technical University, 2008)<br />
    blog: <a href="http://dasnobel.com/">www.dasnobel.com</a> twitter: @<a
href="http://twitter.com/#search?q=dasnobel">dasnobel</a><br />
    <em><strong>&quot;Database Optimization</strong></em><br />
    </p>
    <p>"The Case of the Killer Robot", led by Empire Unlimited<br />

    3. <a
href="http://ethics.csc.ncsu.edu/risks/safety/killer_robot/killer_news3.html">&quot;Killer
Robot&quot; programmer was Prima Donna, co-workers claim</a></p>
    <p>"The Case of the Killer Robot", led by Code Shark Solutions<br />
    4. <a
href="http://ethics.csc.ncsu.edu/risks/safety/killer_robot/killer_news4.html">&quot;Killer
Robot&quot; project mired in controversy right from start</a></p></td>
</tr>
<tr>
<td colspan="3" valign="top">&nbsp;</td>
</tr>

<tr>
    <td valign="top"><a name="February16"></a><a name="February17"></a><a
name="February18"></a><a name="February19"></a><a name="February20"></a><a
name="February21"></a><a name="February22"></a><strong>Tuesday<br />
    February </strong><strong>22</strong></td>
    <td class="style20"><p align="right" class="style18"><em>Presentation:<br />

    </em></p>
    <p align="right" class="style18"><em><br />
    </em></p>
    <p align="right" class="style18"><em>Discussion:<br />
    </em></p>

```



```

        <td colspan="3" valign="top">&nbsp;</td>
    </tr>
    <tr>
        <td valign="top"><a name="March03"></a><a name="March04"></a><a
name="March05"></a><a name="March06"></a><a name="March07"></a><a
name="March08"></a><strong>Tuesday<br />

    March </strong><strong>8</strong></td>
    <td class="style18"><p align="right"><strong><em>Presentations:<br />
</em></strong><br />
<br />
<p>
    <p align="right"><em><strong>Lecture/Discussion:</strong></em></p>
    <p align="right"><em><strong>Discussions:<br />

    </strong></em><br />
</p>
    <p align="right">&nbsp;</p>
    <p align="right"><em><strong><em>Walk-
Through:</em></strong></em><em><strong><br />
</strong></em></p>
</td>
    <td class="style18"><p class="style18"><strong>Justin Valentini,</strong> BS in
Computer Science (Siena, 2007) <br />

    <a href="http://www.xerox-xls.com/">Xerox Litigation Services</a><br />
    <em><strong>&quot;Revision Control - version control - source
control&quot;</strong></em></p>
    <p><a href="120 Employee Benefits.pptx">Employee Benefits II</a></p>
    <p>&ldquo;The Case of the Killer Robot&rdquo;, led by Empire Unlimited<br />
5. <a href="http://ethics.csc.ncsu.edu/risks/safety/killer_robot/killer_news5.html">The
&quot;Killer Robot&quot; interface</a><br />

&ldquo;The Case of the Killer Robot&rdquo;, led by Code Shark Solutions<br />
6. <a href="http://ethics.csc.ncsu.edu/risks/safety/killer_robot/killer_news6.html">Silicon
Techtronics promised to deliver a safe robot</a></p>
    <p>Development Walk-Through</p></td>
</tr>
<tr>
    <td colspan="3" valign="top"><div align="right"></div></td>
</tr>
</table>

<table id="cal_table">
<tr>

```



```

        <td><a name="March09"></a><a name="March10"></a><a
name="March11"></a><a name="March12"></a><a name="March13"></a><a
name="March14"></a><a name="March15"></a>
        <p class="style11">Tuesday, March 15</p>
        <p class="style11">Winter Break</p></td>
        <td></td>
    </tr>
</table>

```

```

<table id="cal_table" border="1" cellpadding="1" cellspacing="1">
    <tr>
        <td colspan="3" valign="top">&nbsp;</td>
    </tr>
    <tr>
        <td valign="top"><a name="March16"></a><a name="March17"></a><a
name="March18"></a><a name="March19"></a><a name="March20"></a><a
name="March21"></a><a name="March22"></a><strong>Tuesday<br />
        March </strong><strong>22</strong></td>

        <td class="style20"><p align="right" class="style18"><strong>Presentation:<br />
</strong><strong><br />
        <br />
        </strong></p>
        <p align="right" class="style18"><strong><br />
        <br />
        </strong></p>
        <p align="right" class="style18">&nbsp;</p>
        <p align="right" class="style18"><br />

        </p>
        <p align="right" class="style18"><strong><em><br />
Walk-Through:</em></strong></p>    </td>
        <td class="style18"><p class="style18"><strong>Keith M. Parent</strong>, BS in
Computer Science (Siena, 1983), MS in Computer Science (RPI, 1990) <a
href="mailto:Parent@CourtSquareGroup.com">Parent@CourtSquareGroup.com</a> CEO, <a
href="www.CourtSquareGroup.com">CourtSquareGroup, Inc.</a>, <a
href="http://www.linkedin.com/in/keithmparent">LinkedIn</a> <br />

        <em><strong>&quot;How Projects Can Make or Break a Business, Real World
Examples!&quot;</strong></em><br />
        </p>
        <p class="style18"><strong>                Mark Riley,</strong> BS in Computer Science
(Siena, 2007) <a href="mailto:mark.j.riley@gmail.com">mark.j.riley@gmail.com</a><br />

```

Information Technology Specialist 3 (formerly called Associate Programmer/Analyst)
New York State Department of Motor Vehicles,
Applications Development

Jim Dzembo, BS in Computer Science (Siena, 2007) JimDzembo@gmail.com

Information Technology Specialist II - Programmer

New York State Department of Taxation and
Finance

"Service Oriented Architecture, <a
href="http://en.wikipedia.org/wiki/Service-
oriented_architecture">SOA"</p>

<p>Development Walk-Through</p></td>

</tr>

<tr>

<td colspan="3" valign="top"> </td>

</tr>

<tr>

<td valign="top"> Tuesday

March 29</td>

<td class="style20"><p align="right" class="style18">Presentation:

</p>

<p align="right" class="style18"> </p>

<p align="right" class="style18">

</p>

<p align="right" class="style18">Discussion:

Walk-Through:</p></td>

<td class="style18"><p class="style18">John Sawicki, BS in Computer
Science (Siena, 2005) jsawickijr@nyiso.com

Software Developer, Grid Operation Products, New York Independent System Operator (NYSISO)

"Real-World Application Development:

Overview and Usage of Third Party Frameworks"</p>

<p class="style18">Jim Manico, BS (Siena, 1997)

Web Application Architect, The Manicode Group

"Testing Web Applications for Critical Security Vulnerabilities"</p>

<p>“The Case of the Killer Robot”, led by Empire Unlimited
7. Software engineer challenges authenticity of "Killer Robot", software tests</p>

<p>Development Walk-Through</p></td>

</tr>

<tr>

<td colspan="3" valign="top"> </td>

</tr>

<tr>

<td valign="top">Tuesday
April 5</td>

<td class="style20"><p align="right" class="style18">Presentation:</p>

<p align="right" class="style18"> </p>

<p align="right" class="style18"> </p>

<p align="right" class="style18">Discussion:

Walk-Through:</p></td>

<td class="style18"><p>Matt Warner, BS in Computer Science (Siena, 2006)

"Transitioning from Java to .NET programming"</p>

<p>Chris Vincek, BS in Computer Science (Siena, 2008), MS in Information Technology (RPI, 2010)

"Do-It-Yourself Usability Testing"</p>

<p>"The Case of the Killer Robot", led by Code Shark Solutions

8. Silicon Techtronics employee admits faking software tests</p>

<p>Development Walk-Through</p></td>

</tr>

<tr>

<td colspan="3" valign="top"> </td>

</tr>

<tr>

<td valign="top">Tuesday

April 12

Presentation:

Discussion:

Walk-Through:

John LaBatt, Esq. BS in Computer Science (1993, Siena); MS in Computer Science (1995, RPI), JD (2001, Albany Law School)

Patent Attorney, <http://www.hoffmanwarnick.com/> Hoffman Warnick LLC

Mike Cusack, Esq., BS in Computer Science (1986); JD (1990, Albany Law School), cusacklaw@verizon.net Attorney at Law (Telecommunications, Land Use, Environmental and Municipal Law), Counsel to <http://www.youngsommer.com/> Young, Sommer, Ward, Ritzenberg, Baker & Moore, LLC.

"Does The World Need More Lawyers? Maybe, with a Computer Science degree?"

"The Case of the Killer Robot", led by Empire Unlimited

9. http://ethics.csc.ncsu.edu/risks/safety/killer_robot/killer_news9.html A conversation with Dr. Harry Yoder

<http://www.acm.org/constitution/code.html> ACM Code of Ethics and Professional Conduct;

<http://www.ieee.org/portal/pages/iportals/aboutus/ethics/code.html> IEEE Code of Ethics; and,

<http://seeri.etsu.edu/Codes/TheSECode.htm> Software Engineering Code of Ethics and Professional Practice) led by Code Shark Solutions

Development Walk-Through

```

<tr>
  <td valign="top"><a name="April13"></a><a name="April14"></a><a
name="April15"></a><a name="April16"></a><a name="April17"></a><a
name="April18"></a><a name="April19"></a><strong>Tuesday<br />
  April 19</strong></td>
  <td class="style25"><p align="right" class="style18"><strong>Presentation:<br />
</strong><strong><br />
</strong></p>
  <p align="right" class="style18"><strong>Discussion:<em><br />
  <br />

  <br />
  Walk-Through:</em></strong></p></td>
  <td class="style18"><p class="style18">"The Case of the Killer Robot", led by Empire
Unlimited<br />
10. <a href="http://www.macs.hw.ac.uk/%7Enkt/praxis/epstein/ckr-thetrial.sht">The Trial of
Randy Samuels</a></p>
  <p>"The Case of the Killer Robot", led by Code Shark Solutions<br />
  11. <a href="http://www.macs.hw.ac.uk/%7Enkt/praxis/epstein/ckr-whokilled.sht">Who
Really Killed Bart Matthews</a></p>

  <p>Development Walk-Through</p></td>
</tr>
<tr>
  <td colspan="3" valign="top">&nbsp;</td>
</tr>
<tr>
  <td valign="top" bordercolor="#D4D0C8"><a name="April20"></a><a
name="April21"></a><a name="April22"></a><a name="April23"></a><a
name="April24"></a><a name="April25"></a><a name="April26"></a><a
name="April27"></a><a name="April28"></a><a
name="April29"></a><p><strong>Tuesday<br />
  April 26</strong></p>

  <p><strong>Tuesday<br />
  April 26</strong></p>
  <p>&nbsp;</p>
  <p><strong>Friday<br />
  April 29</strong></p></td>
  <td class="style20"><p align="right" class="style20"><em>Deliver:</em></p>

  <p align="right" class="style20"><em>Presentations:</em></p>
  <p align="right" class="style20"><br />
  <br />
  </p>
  <p align="right" class="style20"><br />

```

Demonstrations:

By noon: Acceptance Test Documents
Tuesday: Acceptance Test Presentations
Joe Piperata, BS, Computer Science (Siena College, 1995), joep@cisco.com
[Cisco Systems](http://www.cisco.com/) **“Evolving Hardware & Software Solutions for the Next Generation Data Center”**

Friday: Academic Celebration - each team will demonstrate its results and documentation (tentative date)

Monday
May 2

Party:

Monday: End of Semester Party (8 pm) in Roger Bacon 340 - Look for Email Message

- Turn in [evaluations](/%7Elederman/Eval-2006-07/), semester logs, updated resumes, and legacies **(ALL ARE REQUIRED)**

Team Websites Must Be Up-To-Date by 8am this morning.

- Team leaders, also turn in: [team evaluations](/%7Elederman/005%20Eval%20Acceptance%20and%20Semester%20by%20Team%20Leader.doc) and [team evaluations](#)

[attendance](/%7Elederman/001%20Attendance%20Sheet%20for%20Team%20Leaders.xls)

- Team Songs will be presented (at 9 pm) and video-recorded.

- Background movie: "[The Forbidden Planet](http://www.umich.edu/%7Eumfandsf/film/films/forbidden_planet.html)" (1956, 98 minutes)

May 4: Reading Day

May 5-??: Final Examinations (no final examination for CSIS-415 Software Engineering II)

<?

make_footer();

?>

1.6 client.php

```
<?
/**
 * Page where user go if they click on a client name on the results.php page.
 */
session_start();
include ("includes.php");
make_header("Results");
main_menu("Search");

//Get the clientID from results.php
$clientID = $_GET['client'];

//SQL query to get all information from Client table where clientID is equal to $clientID
$q = "SELECT * FROM Client WHERE clientID = $clientID";
//runs the query and stores it in a variable
$results = run_query($q);
//Takes the results and uses mysql_fetch_array to make an array of the results, using
MYSQL_ASSOC to be able to use the column_names
$row = mysql_fetch_array($results, MYSQL_ASSOC);

//Print button and Back to Results button to go back to the results.php page

//Display results of $q. $row formatted as follows: $row['column_name'].
echo'
<input type="button" value="Print this page" onclick="window.print();return false;" />
&nbsp;<input type="button" value="Back to Results" onclick="window.location.href=
\'results.php\'" />
<br /><br />
<h2>'.$row['clientFirst'].' '.$row['clientLast'].'</h2>

<table id="table_results" border="1" cellpadding="10px">
  <tr>
    <th valign="top">
      <p><u>Client name:</u> '.$row['clientFirst'].' '.$row['clientLast'].'</p>
      <p><u>Title:</u> '.$row['title'].'</p>
      <p><u>Organization:</u> '.$row['organization'].'</p>
    </th>
  <th>;

      //Another SQL query to get all the teams and their information given
      they had a client with clientID = $clientID
```



```

        $q = "SELECT teamName, fallYear, springYear, siteLink, projectName,
projectAcronym FROM Team WHERE clientID = $clientID OR clientID2 = $clientID";
        $results = run_query($q);
        while($row = mysql_fetch_array($results, MYSQL_ASSOC))
        {
            echo'
            <h3>'.$row['fallYear'].' - '.$row['springYear'].'</h3>;
            //Check if team has a site, if not, go to their team result page.
            if($row['siteLink'] == ""){
                echo '<a href="team?team='.$row['teamName'].'"
title="'.$row['teamName'].'">'.$row['teamName'].'</a>';
            }
            else {
                echo '<a href="'.$row['siteLink'].'"
title="'.$row['teamName'].'">'.$row['teamName'].'</a>';
            }
            echo'
            <p><u>Team Acronym:</u> '.$row['acronym'].'</p>
            <p><u>Project Name:</u> '.$row['projectName'].'</p>
            <p><u>Project Acronym:</u> '.$row['projectAcronym'].'</p>
            <br /><hr />;
        }

        echo'</th>
        </tr>
    </table>
';

    make_footer();
?>

```

1.7 course.php

```
<?
/**
 * Page where user go if they click on a course year on the results.php page.
 */
include ("includes.php");
make_header("Results");
main_menu("Search");

//Get the course year from results.php
$course = $_GET['course'];

//SQL query to get all information from Client and Team table where the Team had fallYear or
springYear equal to $course and the team's clientId is equal to a clientId in the Client table
$q = "SELECT * FROM Team t, Client c WHERE (fallYear = '$course' OR springYear =
'$course') AND (t.clientID = c.clientID OR t.clientID2 = c.clientID)";
//runs the query and stores it in a variable
$results = run_query($q);

//Print button and Back to Results button to go back to the results.php page
echo'
<input type="button" value="Print this page" onclick="window.print();return false;" />
&nbsp;<input type="button" value="Back to Results" onclick="window.location.href=
\'results.php\'" />
<br /><br /><h2>'. $course. '</h2>
<table id="table_results" border="1" cellpadding="10px">';

/** Takes the results and uses mysql_fetch_array to make an array of the results, using
MYSQL_ASSOC to be able to use the column_names. Displays the * info using a table
 * Display results of $q. $row formatted as follows: $row['column_name'].
 */
while($row = mysql_fetch_array($results, MYSQL_ASSOC)) {
    echo'
        <tr>
            <th valign="top">';
                //If no Team Picture, don't echo <a> and <img> tags
                if($row['teamPic'] != "")
                {
                    echo'<a href="'. $row['siteLink']. "'
title="'. $row['teamName']. "'>'. imageResize($row['teamPic'],400). '</a><br /><br />';
                }
            echo'
```

```

        <a href=" ".$row['siteLink']. "
title=" ".$row['teamName']. ">". $row['teamName']. </a></p>
        <p><u>Team Acronym:</u> ' . $row['acronym']. '</p>
        <p><u>Project Name:</u> ' . $row['projectName']. '</p>
        <p><u>Project Acronym:</u> ' . $row['projectAcronym']. '</p>';
        //Checks if there are two clients. If so, runs another query fo
client 2's first and last name.
        if($row['clientID2'] != "") {
            $y = "SELECT clientFirst, clientLast FROM Client
WHERE clientID = $row[clientID2]";
            $result3 = run_query($y);
            $row3 = mysql_fetch_assoc($result3);
            echo'<p><u>Client(s):</u> ' . $row['clientFirst']. '
'. $row['clientLast']. ', ' . $row3['clientFirst']. ' ' . $row3['clientLast']. ' </p>';
        }
        elseif($row['clientID2'] == "") {
            echo'<p><u>Client(s):</u> ' . $row['clientFirst']. '
'. $row['clientLast']. '</p>';
        }
        echo'
        <p><u>Team Song</u></p>
        <a href=" ".$row['song']. " title="Team
Song">' . $row['song']. '</a><br /><br />
        <p><u>Project Demo:</u> </p>
        <a href=" ".$row['demo']. " title="Project
Demo">' . $row['demo']. '</a><br />
        </th>
        <th valign="top">
            <h3>' . $row['fallYear']. ' - ' . $row['springYear']. '</h3>

            <p>Team Members R&eacute;sum&eacute;s:</p>';
            $teamName = $row['teamName'];
            //Another SQL query to get all the students from Student table
where teamName equals to $teamName
            $q = "SELECT resume, firstName, lastName FROM Student
WHERE teamNameFall = '$teamName' OR teamNameSpring = '$teamName'";
            $results2 = run_query($q);
            while($row = mysql_fetch_array($results2, MYSQL_ASSOC))
            {
                echo '<a href=" '.$row['resume']. "'
title=" '.$row['firstName']. ' ' . $row['lastName']. "'>' . $row['firstName']. '
'. $row['lastName']. '</a><br /><br />';
            }
            echo'</th>
        </tr>';
    }
}

```

```
echo'</table>';
make_footer();
?>
```

1.8 grade1.php

```
<?
/**
 * Grading page for Software Engineering I
 */
include ("includes.php");
make_header("Software Engineering I");
main_menu("Grading I", 1);
?>
<h1>Software Engineering I - Grading</h1>
<strong>COURSE GRADING FOR THE FALL 2010 SEMESTER</strong>
<p>50% Exams (Midterm: 25%, Final: 25%)</p>
<p><span>50% Project (10%, 20%, 20%)<br />
</span>The project portion of the grade will have three components: </p>
<ul>
<li>1. Project Grades -- which are based on:
  <ul>
<li>a) Results </li>

<li>b) Documentation </li>
<li>c) Demonstration of mastery of course concepts </li>
<li>d) Team website </li>
</ul>
</li>
<li>2. Individual Time-Logs -- a record of the time YOU worked on the project</li>
<li>3. Rating Grades (done after each phase and at the end of the semester), Which includes:
  <ul>

<li>a) Ratings of group members by Group Leaders </li>
<li>b) Ratings of group members/leaders by Instructor </li>
<li>c) Peer Evaluations -- your personal assessment of the distribution of project work over
your team</li>
</ul>
</li>
</ul>
<p>(not graded in Fall 2009) Presentations:</p>
<ul>
<li>Your level of understanding of what you presented</li>
<li>The quality of the material you present</li>
```

- The quality of your presentation-style

Grade Deductions: One point will be subtracted from the final grade for each time an assignment is completed late, or, not completed properly:

- Resume review by Career Center (twice)
- Carry out a Career Center mock interview (6 components)

- Cover Letter
- Resume
- References
- Preparation for the interview

- Seriousness in role-playing during the interview
- Interaction during the interview

- Send a thank-you note to the mock interviewer
- Submit team evaluations on-time (three times)
- Submit work-log on-time and in the correct format (three times)

CLASS ATTENDANCE:

Attendance at class meetings and team meetings is required (this includes any team meetings and class meetings held during class time and outside of class time). Up to three absences will be allowed. Each absence above three (for any reasons) will lower the final grade by 1/3 of a letter grade. Being late for a class or a meeting is considered being absent. In order to properly contribute to your group's effort, software-engineering concepts and the details of your project must be well understood by all members of each team.

TIME-LOG OF ACTIVITIES:

Each student must keep a log of his/her project work. The log should be kept on your Siena or Computer Science "personal drive". The log must be up-to-date and available for the instructor to read at any time. The team leader will keep track of class attendance, team-meeting attendance, and attendance at other scheduled meetings.

Each entry should include the date, time-worked, details of work attempted and work completed, and any comments such as difficulties encountered, extraordinary successes, etc. Make an entry, however brief, whenever you work on the project. Logs will be collected at the end of each semester.

All logs will be submitted to the professor as part of each evaluation (see below) - the logs are an accumulative record of the time you have worked. Your log must be printed properly : one-page wide, with title/headings on each page, and with a summation of total hours at the bottom. The log will be cumulative and submitted to the instructor at three times during the semester.

<p align="left">Samples of: Individual Log Sheets and Team Leader Attendance Sheets.</p>

<p align="left">RATINGS - PEER EVALUATIONS:</p>

<p align="left">The purpose of the rating sheets is to measure an individual's contribution to the group effort. The rating form is not time-consuming to fill out. Each team member will rate all other team members. Two rates will be given: amount of work done by each individual; and, how well an individual carried out what she/he was asked to do. Ratings will be turned in at the next class after a presentation. A semester rating will also be done. The instructor will rate the group members and leaders, guided by the team's performance and members' evaluations. All ratings will be factored in as a percentage of the final grade.</p>

</p>

<p>1. Team leaders will rate the efforts of each member of the team.</p>

<p> - Designate the % of total effort done by each member</p>

<p> - Designate the quality of each member's effort relative to what each was assigned</p>

<p>2. Team members will rate all members of the team (a rating sheet is in your teams folder at this link) </p>

<p> - Designate the % of total effort done by each member</p>

<p> - Designate the quality of each member's effort relative to what each was assigned</p>

<p> - Evaluate the team leader</p>

</p>

<?>

make_footer();

?>

1.9 grade2.php

```
<?
/**
 * Grading page for Software Engineering II
 */
include ("includes.php");
make_header("Software Engineering II");
main_menu("Grading II", 2);
?>
<h1>Software Engineering II - Grading</h1>
<strong>GRADING</strong><br>
<span> There is no midterm or final exam in this course </span></h3>
</blockquote>
<ul>
  <li>30% Class participation (in discussions and in walk-throughs) and required material
submitted on time.</li>
  <li>70% Project
    <ul>
      <li>Detailed Design 30%</li>

      <li>Acceptance Test 40%</li>
    </ul>
  </li>
  <li>Attendance (class, team, client meetings, or required outside of class activity) - absent or
being late for up to 3 events/hours is allowed; any additional absences or tardiness will result in
a 1/3 letter-grade deduction per hour/absence/tardiness</li>
</ul>
<p>The following three elements will be taken into account in the computation of the Project
portion of the final grade:</p>
<ol>
  <li> Team Grade on the Project (assigned by the instructor). The team grade is based on the
documents provided, the presentations, the quality of the work performed, and demonstration of
mastery of the course content - 60% of the project grade</li>
  <li> Individual Logs (submitted on-time and confirmed by the team leader): an accounting of
hours worked on the team project. Each student will keep a log of work on the project. The log
should include the date, amount of time spent, brief description of the activity or the work
attempted and completed, and any comment or notes that might be important (such as
difficulties encountered, surprises, problems, or successes). Make an entry, however short,
whenever you work on the project. LOGS WILL BE SUBMITTED TWO TIMES DURING
THE SEMESTER. THE LOG IS ALSO USEFUL SHOULD YOU QUESTION THE GRADE
YOU RECEIVE FOR THE COURSE. These items are expected to be submitted - if any are not
submitted or are submitted late, the Project Grade will be reduced. This measure will be 20% of
```

the project grade. Each member's hours will be compared to the average hours worked by each member's team. The average hours will be equivalent to a B+ grade.

Team Leader and Peer Evaluations - 20% of Project grade

- Each member's contribution to completing the project

- Was the member's work completed in a timely fashion

- The quality of the work performed

<?

make_footer();

?>

1.10 includes.php

```
<?
/**
 * Main (Sub) Menu generator
 * This script displays the menu's depending on what the $page equals to and what $num
equals to
 *
 * $page: Name of the page calling the function. When true, the background-color of the page
is changed and the link is changed here to let user
 * know that this is the page they're view currently
 *
 * $num: What sub menu to display for Software Engineering (1 or 2). If nothing is entered, the
default is 3 and no sub menu is displayed
 */

function main_menu($page, $num=3)
{
    echo '
    <a href="index.php"><div id="banner"></div></a>
    <div id="main_menu">';
    if($page == 'Home')
    {
        echo' <a href="index.php" title="Home"
style="color:#F9E997;">&nbsp;Home&nbsp;</a>|';
    }
    else { echo' <a href="index.php" title="Home">&nbsp;Home&nbsp;</a>|'; }
    if($page == 'Software Engineering I' || $num==1)
    {
        echo'<a href="soft1.php" title="Software Engineering I" style="color:#F9E997;
background-color:#465862;">&nbsp;Software Engineering I&nbsp;</a>|';
    }
    else { echo'<a href="soft1.php" title="Software Engineering I">&nbsp;Software
Engineering I&nbsp;</a>|'; }
    if($page == 'Software Engineering II' || $num==2)
    {
        echo'<a href="soft2.php" title="Software Engineering II" style="color:#F9E997;
background-color:#465862;">&nbsp;Software Engineering II&nbsp;</a>|';
    }
    else { echo'<a href="soft2.php" title="Software Engineering II">&nbsp;Software
Engineering II&nbsp;</a>|'; }
    if($page == 'Search')
```

```

    {
        echo'<a href="search.php" title="Search by Student Name, Team Name, or
Course Year" style="color:#F9E997;">&nbsp;Search&nbsp;</a>';
    }
    else { echo'<a href="search.php" title="Search by Student Name, Team Name, or
Course Year">&nbsp;Search&nbsp;</a>';}
    echo'</div>';
    //For the sub menu, if $num = 1, sub menu for Software Engineering 1 displayed. If
$num = 2, sub menu for Software Engineering 2 displayed.
    if($num == 1)
    {
        echo'
        <div id="sub_menu">';
        if($page == 'Software Engineering I')
        {
            echo'<a href="soft1.php" title="Course Description"
style="color:#F9E997; background-color:#465862;">&nbsp;Course Description&nbsp;</a>|';
        }
        else{ echo'<a href="soft1.php" title="Course Description">&nbsp;Course
Description&nbsp;</a>|';}
        if($page == 'Calendar I')
        {
            echo'<a href="calendar1.php" title="Calendar" style="color:#F9E997;
background-color:#465862;">&nbsp;Calendar&nbsp;</a>|';
        }
        else{ echo'<a href="calendar1.php" title="Calendar">
&nbsp;Calendar&nbsp;</a>|'; }
        if($page == 'Grading I')
        {
            echo'<a href="grade1.php" title="Grading" style="color:#F9E997;
background-color:#465862;">&nbsp;Grading&nbsp;</a>|';
        }
        else{ echo'<a href="grade1.php" title="Grading">&nbsp;Grading</a>|'; }
        if($page == 'Syllabus I')
        {
            echo'<a href="syllabus1.php" title="Syllabus" style="color:#F9E997;
background-color:#465862;">&nbsp;Syllabus&nbsp;</a>|';
        }
        else{ echo'<a href="syllabus1.php"
title="Syllabus">&nbsp;Syllabus&nbsp;</a>'; }
        echo'</div>';
    }
    if($num == 2)
    {
        echo'
        <div id="sub_menu">';
    }

```

```

        if($page == 'Software Engineering II')
        {
            echo'<a href="soft2.php" title="Course Description"
style="color:#F9E997; background-color:#465862;">&nbsp;Course Description&nbsp;</a>|';
        }
        else{ echo'<a href="soft2.php" title="Course Description">&nbsp;Course
Description&nbsp;</a>|';}
        if($page == 'Calendar II')
        {
            echo'<a href="calendar2.php" title="Calendar" style="color:#F9E997;
background-color:#465862;">&nbsp;Calendar&nbsp;</a>|';
        }
        else{ echo'<a href="calendar2.php"
title="Calendar">&nbsp;Calendar&nbsp;</a>|'; }
        if($page == 'Grading II')
        {
            echo'<a href="grade2.php" title="Grading" style="color:#F9E997;
background-color:#465862;">&nbsp;Grading&nbsp;</a>|';
        }
        else{ echo'<a href="grade2.php" title="Grading">&nbsp;Grading&nbsp;</a>|';
}
        if($page == 'Syllabus II')
        {
            echo'<a href="syllabus2.php" title="Syllabus" style="color:#F9E997;
background-color:#465862;">&nbsp;Syllabus&nbsp;</a>|';
        }
        else{ echo'<a href="syllabus2.php"
title="Syllabus">&nbsp;Syllabus&nbsp;</a>|'; }
        if($page == 'Speakers')
        {
            echo'<a href="speakers.php" title="Speakers" style="color:#F9E997;
background-color:#465862;">&nbsp;Speakers&nbsp;</a>|';
        }
        else{ echo'<a href="speakers.php"
title="Speakers">&nbsp;Speakers&nbsp;</a>|'; }
        if($page == 'Robot')
        {
            echo'<a href="robot.php" title="Robot" style="color:#F9E997;
background-color:#465862;">&nbsp;Killer Robot&nbsp;</a>|';
        }
        else{ echo'<a href="robot.php" title="Robot">&nbsp;Killer Robot&nbsp;</a>|';
}
        echo'</div>';
    }
    echo '<div id="content">';
}

```

```

/**
 * Header generator
 *
 * This function is to avoid having to rewrite the header information on each page. It contains
standard HTML header information for the PHP pages * to generate, including the link to the
CSS style sheet. In addition, it take a parameter, $title, to allow you to make whatever page title
you'd * like.
 *
 * $title: Value of what you want the title of the page to be.
 */

```

```

function make_header($title)
{
    echo'
    <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
    <html xmlns="http://www.w3.org/1999/xhtml">
    <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
    <title>'.$title.'</title>
    <link rel="stylesheet" type="text/css" href="css/main.css" />
    </head>
    <body>
    <div id="container">';
}
/**

```

```

 * Footer generator
 *
 * This function is to avoid having to rewrite the footer for each page. It displays the footer
links in the "footer" div, as well as ending the * HTML document.
 */

```

```

function make_footer()
{
    echo'
    </div>
    </div>
    <div id="footer">
        <a href="http://www.siena.edu/pages/1.asp" target="_blank">Siena College</a>
|
        <a href="http://www.siena.edu/pages/2058.asp" target="_blank">Siena College
C.S. Department</a> |
        <a href="http://www.siena.edu/pages/2000.asp" target="_blank">Siena College
School of Science</a> |
        <a href="http://www.siena.edu/pages/2262.asp" target="_blank">Siena College
Career Center</a>

```

```

        </div>

        </body>
        </html>';
    }

/**
 * Image resize function
 *
 * First, it gets the user inputed images ($filename) height and width.
 *
 * Then, given the width ($fixedW), formulates the ratio, and finds out the new height based on
the given width ($fixedWidth).
 *
 * Returns the HTML img code using new height ($newHeight) and new width ($fixedWidth)
 *
 * If not image found ($fileName), error notification given.
 */

function imageResize($filename, $fixedW) {
    if($filename == "")
    {
        return '<p>No image found</p>';
    }
    else
    {
        $size = getimagesize($filename);

        $width=$size[0];
        $height=$size[1];

        $temp = $height * $fixedW;

        $newHeight = round($temp / $width, 2);

        //$ratio = round($width/$height, 2);

        //$newHeight = round($fixedW/$ratio);

        return '</img>';
    }
}

// Generates the drop down menu for the user to select a date to go to on the calendar

```



```
*
* !!! NOTE !!! YOU MUST CHANGE THE begin AND end VARIABLES EACH YEAR
FOR THE SEMESTER. FORMAT IS AS FOLLOWS:
```

```
*
* var DATE = new Date();
*   begin.setMonth(MONTH,DAY);
*
*   Month value is from 0-11 (Jan - Dec), day is from (1 - 31)
*
*/
```

```
function goToDate1() {
    echo '<SCRIPT LANGUAGE="JavaScript">
function goToDate() {
    var d=new Date();
    //convert getDate into a string
    var day = ""+d.getDate();

    // make array for months
    var month=new Array(12);
    month[0]="January";
    month[1]="February";
    month[2]="March";
    month[3]="April";
    month[4]="May";
    month[5]="June";
    month[6]="July";
    month[7]="August";
    month[8]="September";
    month[9]="October";
    month[10]="November";
    month[11]="December";

    //check if day is only one digit (1-9), if so, add leading zero
    if(day.length==1) day = "0"+day;

    //add month and day together
    var Value = month[d.getMonth()] + day;

    window.location.href = "#"+Value;
}
function Calendar (form) {
    var MonthVar = form.month.value;
    var DayVar = form.day.value;
    var Value = MonthVar+DayVar;

    var month=new Array(12);
```



```

month[0]="January";
month[1]="February";
month[2]="March";
month[3]="April";
month[4]="May";
month[5]="June";
month[6]="July";
month[7]="August";
month[8]="September";
month[9]="October";
month[10]="November";
month[11]="December";

var i = 0;
for(i =0; i<month.length;i++)
{
    if(month[i] == MonthVar)
    {
        var monthNum = i;
    }
}

var myDate = new Date();
myDate.setMonth(monthNum, DayVar);

var begin = new Date();
begin.setMonth(8,8);

var end = new Date();
end.setMonth(11,21);
if (myDate<begin || myDate>end)
{
    alert("You have entered a date outside of the semester");
}
else
{
    window.location.href = "#"+Value;
}
}
</SCRIPT>';
}
/**
 * Same as goToDate1(), but for the second semester.
 *
 * !!! NOTE !!! YOU MUST CHANGE THE begin AND end VARIABLES EACH YEAR
FOR THE SEMESTER. FORMAT IS AS FOLLOWS:

```

```

*
* var DATE = new Date();
*   begin.setMonth(MONTH,DAY);
*
*   Month value is from 0-11 (Jan - Dec), day is from (1 - 31)
*
*/
function goToDate2() {
    echo '<SCRIPT LANGUAGE="JavaScript">
function goToDate() {
    var d=new Date();
    //convert getDate into a string
    var day = ""+d.getDate();

    // make array for months
    var month=new Array(12);
    month[0]="January";
    month[1]="February";
    month[2]="March";
    month[3]="April";
    month[4]="May";
    month[5]="June";
    month[6]="July";
    month[7]="August";
    month[8]="September";
    month[9]="October";
    month[10]="November";
    month[11]="December";

    //check if day is only one digit (1-9), if so, add leading zero
    if(day.length==1) day = "0"+day;

    //add month and day together
    var Value = month[d.getMonth()] + day;

    window.location.href = "#"+Value;
}
function Calendar (form) {
    var MonthVar = form.month.value;
    var DayVar = form.day.value;
    var Value = MonthVar+DayVar;

    var month=new Array(12);
    month[0]="January";
    month[1]="February";
    month[2]="March";

```

```

month[3]="April";
month[4]="May";
month[5]="June";
month[6]="July";
month[7]="August";
month[8]="September";
month[9]="October";
month[10]="November";
month[11]="December";

var i = 0;
for(i =0; i<month.length;i++)
{
    if(month[i] == MonthVar)
    {
        var monthNum = i;
    }
}

var myDate = new Date();
myDate.setMonth(monthNum, DayVar);

var begin = new Date();
begin.setMonth(0,18);

var end = new Date();
end.setMonth(4,5);
if (myDate<begin || myDate>end)
{
    alert("You have entered a date outside of the semester");
}
else
{
    window.location.href = "#"+Value;
}
}
</SCRIPT>';
}

/*
PHP functions to handle connecting to our database and then running queries.
*/

function db_connect() {
    //php functin to connect to database

```

```

        $connection = mysql_connect("oraserv.cs.siena.edu", "perm_css",
"pierce*crush=straw");

        //php function to choose database given a connection
        mysql_select_db("perm_css", $connection);

        //return the connection
        return $connection;
    }
function run_query($q) {
    //get connection to database
    $connection = db_connect();

    //run SQL query ($q), store as $results
    $results = mysql_query($q) or die ("ERROR: " . mysql_error());

    //close database connection
    mysql_close($connection);

    //return the results of the query
    return $results;
}
?>

```

1.11 index.php

```

<?
/**
 *      Home page of web site. Basic info about course. In addition, the current team links of
Software Engineering displayed.
 */

include ("includes.php");
make_header("Home");
main_menu("Home");
?>
<div id="home">
    <div id="home_img">
        <a href="http://csciwww.etsu.edu/gotterbarn/secepp/images/poster.pdf"><? echo
imageResize("images/home.jpg", 300); ?></a>
    </div>
    <div id="home_content">
        <a href="http://www.haringkids.com/book/sleep/teamwork.htm"><? echo
imageResize("images/hands.gif", 160); ?></a>
        <h3>CSIS-410. Software Engineering I (3 credits)</h3>

```

<p>Introduces the concepts of structured system analysis. Presents principles of software engineering including techniques for planning, specification, and system design. Specifications for an actual system will be developed. Prerequisite: CSIS—225. Required for all senior-level Computer Science majors</p>

<h3>CSIS-415. Software Engineering II (3 credits)</h3>

<p>Implementation of a software engineering methodology. Complete design, testing, and verification of a system developed using a programming team concept. Structured design and documentation. Prerequisite: CSIS—410</p>

</div>

</div>

<p align="center">Current Software Engineering Teams</p>

<table id="current_teams" border="1" cellpadding="10" cellspacing="1">

<tr>

<th>Code Shark Solutions</th>

<th>Empire Solutions</th>

</tr>

</table>

<?>

make_footer();

?>

1.12 results.php

```
<?
/**
 * Results page. Takes the user's input from search.php, figures out what type of search they
 were doing, then displays the results.
 * The strategy for displaying the search results was to first clean the input from the user and the
 * information from the database by taking out spaces and punctuation. The the levenshtien
 * function is called to determine how close the input is to the entry in the database. Exact
 * matches are displayed first followed by matches that have the search string contained in
 * them followed by inexactmatches that have an edit distance of less than or equal to 2.
 *
 */

session_start();
include ("includes.php");
make_header("Results");
main_menu("Search");

// Value the user entered in the search.php page.
$entry = $_SESSION['entry'];

// Type of search user did (eg. student, course, team, client)
$type = $_SESSION['search'];

echo '<h1>Results - '.$entry.'</h1>
<input type="button" value="Back to Search" onclick="window.location.href= \'search.php\'"
/><br /><br />';

/* Results of a search by Student Name */
if($type == 'student' && $entry != ""){

    $q = "SELECT * FROM Student s, Team t, Client c WHERE (s.teamNameFall =
t.teamName OR s.teamNameSpring = t.teamName) AND t.clientID = c.clientID";
    $result = run_query($q);
    $print = array();
    $cleanUnicodeStr = trim(preg_replace('#[^\p{L}\p{N}]+#\u', "", $entry));
    $lowered['studentName'] = strtolower($cleanUnicodeStr);

    $count = 0;

    echo '
<table border="1" width="90%" align="center" cellpadding="10px">
<tr>
```

```

        <td>First Name</td><td>Last Name</td><td>Team Name(s)</td><td>Project
Name(s)</td><td>Client Name(s)</td><td>Course Year</td>
    </tr>';

```

```

    while ($row = mysql_fetch_assoc($result)) {
        $print[$count] = 1;

        $lowered['firstName'] = strtolower(trim(preg_replace('#[^\p{L}\p{N}]+#u',
", $row['firstName'])));
        $lowered['lastName'] = strtolower(trim(preg_replace('#[^\p{L}\p{N}]+#u',
", $row['lastName'])));

        //exact
        if(levenshtein($lowered['firstName'],$lowered['studentName']) == 0 &&
$print[$count])
        {
            $print[$count] = 0;
            echo'
            <tr>
                <td><a
href="student.php?student='.$row['studentID'].'">'.$row['firstName'].'</a></td>
                <td><a
href="student.php?student='.$row['studentID'].'">'.$row['lastName'].'</a></td>
                <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'</a><br />
                </td>
                <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</td>';
            //Checks if there are two clients. If so, runs another query fo client 2's
first and last name.
            if($row['clientID2'] != "") {
                echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';
                $x = "SELECT clientFirst, clientLast FROM Client WHERE
clientID = $row[clientID2]";
                $result2 = run_query($x);
                $row2= mysql_fetch_assoc($result2);
                echo'<br />Client 2: <a
href="client.php?client='.$row['clientID2'].'">'.$row2['clientFirst'].' '.$row2['clientLast'].'</td>';
            }
            else {
                echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';
            }
            echo'

```

```

        <td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a></td>
</tr>';
    }
    else if(levenshtein($lowered['lastName'],$lowered['studentName']) == 0 &&
$print[$count])
    {
        $print[$count] = 0;
        echo'
        <tr>
        <td><a
href="student.php?student='.$row['studentID'].'">'.$row['firstName'].'</a></td>
        <td><a
href="student.php?student='.$row['studentID'].'">'.$row['lastName'].'</a></td>
        <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'</a><br />
        </td>
        <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</td>';
        //Checks if there are two clients. If so, runs another query fo client 2's
first and last name.
        if($row['clientID2'] != "") {
            echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';
            $x = "SELECT clientFirst, clientLast FROM Client WHERE
clientID =$row[clientID2]";
            $result2 = run_query($x);
            $row2= mysql_fetch_assoc($result2);
            echo'<br />Client 2: <a
href="client.php?client='.$row['clientID2'].'">'.$row2['clientFirst'].' '.$row2['clientLast'].'</td>';
        }
        else {
            echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';
        }
        echo'<td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a></td>
</tr>';
    }
    else if(levenshtein($lowered['firstName'] .
$lowered['lastName'],$lowered['studentName']) == 0 && $print[$count])
    {
        $print[$count] = 0;

```



```

        echo'
    <tr>
        <td><a
href="student.php?student='.$row['studentID'].'">'.$row['firstName'].'</a></td>
        <td><a
href="student.php?student='.$row['studentID'].'">'.$row['lastName'].'</a></td>
        <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'</a><br />
        </td>
        <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</td>';
        //Checks if there are two clients. If so, runs another query fo client 2's
first and last name.
        if($row['clientID2'] != "") {
            echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>;
            $x = "SELECT clientFirst, clientLast FROM Client WHERE
clientID =$row[clientID2]";
            $result2 = run_query($x);
            $row2= mysql_fetch_assoc($result2);
            echo'<br />Client 2: <a
href="client.php?client='.$row['clientID2'].'">'.$row2['clientFirst'].' '.$row2['clientLast'].'</td>';
        }
        else {
            echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>;
        }
        echo'<td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a></td>
    </tr>';
    }
    else
if(levenshtein($lowered['lastName'],$lowered['firstName'],$lowered['studentName']) == 0 &&
$print[$count])
    {
        $print[$count] = 0;
        echo'
    <tr>
        <td><a
href="student.php?student='.$row['studentID'].'">'.$row['firstName'].'</a></td>
        <td><a
href="student.php?student='.$row['studentID'].'">'.$row['lastName'].'</a></td>
        <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'</a><br />

```

```

        </td>
        <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</td>';
        //Checks if there are two clients. If so, runs another query fo client 2's
first and last name.
        if($row['clientID2'] != "") {
            echo<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>;
            $x = "SELECT clientFirst, clientLast FROM Client WHERE
clientID =$row[clientID2]";
            $result2 = run_query($x);
            $row2= mysql_fetch_assoc($result2);
            echo<br />Client 2: <a
href="client.php?client='.$row['clientID2'].'">'.$row2['clientFirst'].' '.$row2['clientLast'].'</td>';
        }
        else {
            echo<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>;
        }
        echo<td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a></td>
</tr>';
    }
    $count++;
} //end while

//contains
$result = run_query($q);
$count = 0;
while ($row = mysql_fetch_assoc($result)) {

    $lowered['firstName'] = strtolower(trim(preg_replace('#[^\p{L}\p{N}]+#u',
", $row['firstName'])));
    $lowered['lastName'] = strtolower(trim(preg_replace('#[^\p{L}\p{N}]+#u',
", $row['lastName'])));
    $contains = explode(' ', strtolower(trim(preg_replace('#[^\p{L}\p{N}]+#u', ", $entry))));

    $i = 0;

    for($i = 0; $i < count($contains); $i++)
    {
        if(strstr( $lowered['firstName'] . $lowered['lastName'], strtolower($contains[$i]))
!= FALSE && $print[$count])
        {

```

```

        $print[$count] = 0;
        echo'
    <tr>
        <td><a
href="student.php?student='.$row['studentID'].'">'.$row['firstName'].'</a></td>
        <td><a
href="student.php?student='.$row['studentID'].'">'.$row['lastName'].'</a></td>
        <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'</a><br />
        </td>
        <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</td>';
        //Checks if there are two clients. If so, runs another query fo client 2's
first and last name.
        if($row['clientID2'] != "") {
            echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';
            $x = "SELECT clientFirst, clientLast FROM Client WHERE
clientID =$row[clientID2]";
            $result2 = run_query($x);
            $row2= mysql_fetch_assoc($result2);
            echo'<br />Client 2: <a
href="client.php?client='.$row['clientID2'].'">'.$row2['clientFirst'].' '.$row2['clientLast'].'</td>';
        }
        else {
            echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';
        }
        echo'<td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a></td>
    </tr>';
    }
}

$count++;

} //end while

$result = run_query($q);
$count = 0;
while ($row = mysql_fetch_assoc($result)) {

    $lowered['firstName'] = strtolower(trim(preg_replace('#[\p{L}\p{N}]+#u',
", $row['firstName'])));

```

```

        $lowered['lastName'] = strtolower(trim(preg_replace('#[^\p{L}\p{N}]+#u',
", $row['lastName'])));

        //inexact
        if(levenshtein($lowered['firstName'],$lowered['studentName']) <= 2 &&
levenshtein($lowered['firstName'],$lowered['studentName']) !=0 && $print[$count])
        {
            echo'
            <tr>
                <td><a
href="student.php?student='.$row['studentID'].'">'.$row['firstName'].'</a></td>
                <td><a
href="student.php?student='.$row['studentID'].'">'.$row['lastName'].'</a></td>
                <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'</a><br />
                </td>
                <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</td>';
                //Checks if there are two clients. If so, runs another query fo client 2's
first and last name.
                if($row['clientID2'] != "") {
                    echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';
                    $x = "SELECT clientFirst, clientLast FROM Client WHERE
clientID =$row[clientID2]";
                    $result2 = run_query($x);
                    $row2= mysql_fetch_assoc($result2);
                    echo'<br />Client 2: <a
href="client.php?client='.$row['clientID2'].'">'.$row2['clientFirst'].' '.$row2['clientLast'].'</td>';
                }
                else {
                    echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';
                }
                echo'<td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a></td>
            </tr>';
            $print[$count] = 0;
        }
        else if(levenshtein($lowered['lastName'],$lowered['studentName']) <= 2 &&
levenshtein($lowered['lastName'],$lowered['studentName']) !=0 && $print[$count])
        {
            echo'

```

```

        <tr>
            <td><a
href="student.php?student='.$row['studentID'].'">'.$row['firstName'].'</a></td>
            <td><a
href="student.php?student='.$row['studentID'].'">'.$row['lastName'].'</a></td>
            <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'</a><br />
            </td>
            <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</td>';
        //Checks if there are two clients. If so, runs another query fo client 2's
first and last name.
        if($row['clientID2'] != "") {
            echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>;
            $x = "SELECT clientFirst, clientLast FROM Client WHERE
clientID =$row[clientID2]";
            $result2 = run_query($x);
            $row2= mysql_fetch_assoc($result2);
            echo'<br />Client 2: <a
href="client.php?client='.$row['clientID2'].'">'.$row2['clientFirst'].' '.$row2['clientLast'].'</td>';
        }
        else {
            echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>;
        }
        echo'<td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a></td>
        </tr>';
        $print[$count] = 0;
    }
    else if(levenshtein($lowered['firstName'] .
$lowered['lastName'],$lowered['studentName']) <= 3 && levenshtein($lowered['firstName'] . '
. $lowered['lastName'],$lowered['studentName']) !=0 && $print[$count])
    {
        echo'
        <tr>
            <td><a
href="student.php?student='.$row['studentID'].'">'.$row['firstName'].'</a></td>
            <td><a
href="student.php?student='.$row['studentID'].'">'.$row['lastName'].'</a></td>
            <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'</a><br />
            </td>

```

```

        <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</td>';
        //Checks if there are two clients. If so, runs another query fo client 2's
first and last name.
        if($row['clientID2'] != "") {
            echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';
            $x = "SELECT clientFirst, clientLast FROM Client WHERE
clientID =$row[clientID2]";
            $result2 = run_query($x);
            $row2= mysql_fetch_assoc($result2);
            echo'<br />Client 2: <a
href="client.php?client='.$row['clientID2'].'">'.$row2['clientFirst'].' '.$row2['clientLast'].'</td>';
        }
        else {
            echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';
        }
        echo'<td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a></td>
</tr>';
        $print[$count] = 0;
    }
    else if(levenshtein($lowered['lastName'] .
$lowered['firstName'],$lowered['studentName']) <= 3 && levenshtein($lowered['lastName'] . ' '
. $lowered['firstName'],$lowered['studentName']) !=0 && $print[$count])
    {
        echo'
<tr>
        <td><a
href="student.php?student='.$row['studentID'].'">'.$row['firstName'].'</a></td>
        <td><a
href="student.php?student='.$row['studentID'].'">'.$row['lastName'].'</a></td>
        <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'</a><br />
        </td>
        <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</td>';
        //Checks if there are two clients. If so, runs another query fo client 2's
first and last name.
        if($row['clientID2'] != "") {
            echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';

```

```

        $x = "SELECT clientFirst, clientLast FROM Client WHERE
clientID =$row[clientID2]";
        $result2 = run_query($x);
        $row2= mysql_fetch_assoc($result2);
        echo'<br />Client 2: <a
href="client.php?client='.$row[clientID2]."'>'.$row2[clientFirst].'. '$row2[clientLast].'</td>';
    }
    else {
        echo'<td>Client 1: <a
href="client.php?client='.$row[clientID]."'>'.$row[clientFirst].'. '$row[clientLast].'</a>';
    }
    echo'<td><a
href="course.php?course='.$row[fallYear]."'>'.$row[fallYear].'</a> - <a
href="course.php?course='.$row[springYear]."'>'.$row[springYear].'</a></td>
</tr>';
    $print[$count] = 0;
}
$count++;

} //end while
echo'</table>';
}

```

```

/* Results of a search by Team Name */

```

```

if($type == 'team' && $entry != ""){
    $q = "SELECT * FROM Team t, Client c where t.clientID = c.clientID";
    $result = run_query($q);
    $print = array();
    $cleanUnicodeStr = trim(preg_replace('#[^\p{L}\p{N}]+#u', "", $entry));
    $lowered['getTeamName'] = strtolower($cleanUnicodeStr);
    $count = 0;

    echo'
<table border="1" width="90%" align="center" cellpadding="10px">
<tr>
<td>Team Name</td><td>Project Name</td><td>Client Name(s)</td><td>Course
Year</td>
</tr>';
    while ($row = mysql_fetch_assoc($result)) {
        $print[$count] = 1;

        $lowered['teamName'] = strtolower(trim(preg_replace('#[^\p{L}\p{N}]+#u', "",
$row['teamName'])));
        $lowered['acronym'] = strtolower(trim(preg_replace('#[^\p{L}\p{N}]+#u', "",
$row['acronym'])));
    }
}

```

```

//exact
if(levenshtein($lowered['teamName'], $lowered['getTeamName']) == 0
&& $print[$count])
{
    echo'
    <tr>
        <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'<br /><br
/>'.$row['acronym'].'</a></td>
        <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</a></td>';
    //Checks if there are two clients. If so, runs another query fo client 2's
first and last name.
    if($row['clientID2'] != "") {
        echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';
        $x = "SELECT clientFirst, clientLast FROM Client WHERE
clientID =$row[clientID2]";
        $result2 = run_query($x);
        $row2= mysql_fetch_assoc($result2);
        echo'<br />Client 2: <a
href="client.php?client='.$row['clientID2'].'">'.$row2['clientFirst'].' '.$row2['clientLast'].'</td>';
    }
    else {
        echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';
    }
    echo'<td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a></td>
</tr>';
    $print[$count] = 0;
}
else if(levenshtein($lowered['acronym'],$lowered['getTeamName']) ==0
&& $print[$count])
{
    $print[$count] = 0;
    echo'
    <tr>
        <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'<br /><br
/>'.$row['acronym'].'</a></td>
        <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</a></td>';
}

```



```

//Checks if there are two clients. If so, runs another query fo client 2's
first and last name.
    if($row['clientID2'] != "") {
        echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';
        $x = "SELECT clientFirst, clientLast FROM Client WHERE
clientID =$row[clientID2]";
        $result2 = run_query($x);
        $row2= mysql_fetch_assoc($result2);
        echo'<br />Client 2: <a
href="client.php?client='.$row['clientID2'].'">'.$row2['clientFirst'].' '.$row2['clientLast'].'</td>';
    }
    else {
        echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';
    }
    echo'<td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a></td>
</tr>';
}
    $count++;
} //end while

//contains

$result = run_query($q);
$count = 0;
while ($row = mysql_fetch_assoc($result)) {
    $lowered['teamName'] = strtolower(trim(preg_replace('#[^\p{L}\p{N}]+#\u',
",$row['teamName'])));
    $lowered['acronym'] = strtolower(trim(preg_replace('#[^\p{L}\p{N}]+#\u',
",$row['acronym'])));
    $contains = explode(' ', $entry);

    $i = 0;

    for($i = 0; $i < count($contains); $i++)
    {
        if(strpos( $lowered['teamName'] . $lowered['acronym'],
strtolower($contains[$i])) != FALSE && $print[$count])
        {
            $print[$count] = 0;
            echo'
<tr>

```

```

                <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'<br /><br
/>'.$row['acronym'].'</a></td>
                <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</a></td>';
                //Checks if there are two clients. If so, runs another query fo client 2's
first and last name.
                if($row['clientID2'] != "") {
                    echo<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>;
                    $x = "SELECT clientFirst, clientLast FROM Client WHERE
clientID =$row[clientID2]";
                    $result2 = run_query($x);
                    $row2= mysql_fetch_assoc($result2);
                    echo<br />Client 2: <a
href="client.php?client='.$row['clientID2'].'">'.$row2['clientFirst'].' '.$row2['clientLast'].'</td>';
                }
                else {
                    echo<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>;
                }
                echo<td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a></td>
                </tr>';
            }
        }
        $count++;

    }//end while

    $result = run_query($q);
    $count = 0;
    while ($row = mysql_fetch_assoc($result)) {
        $lowered['teamName'] = strtolower(trim(preg_replace('#[^\p{L}\p{N}]+#\u',
", $row['teamName'])));
        $lowered['acronym'] = strtolower(trim(preg_replace('#[^\p{L}\p{N}]+#\u',
", $row['acronym'])));

        //inexact
        if(levenshtein($lowered['teamName'],$lowered['getTeamName']) <= 2 &&
levenshtein($lowered['teamName'],$lowered['getTeamName']) != 0 && $print[$count])

```

```

        {
            echo'
        <tr>
            <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'<br /><br
/>'.$row['acronym'].'</a></td>
            <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</a></td>';
            //Checks if there are two clients. If so, runs another query fo client 2's
first and last name.
            if($row['clientID2'] != "") {
                echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';
                $x = "SELECT clientFirst, clientLast FROM Client WHERE
clientID =$row[clientID2]";
                $result2 = run_query($x);
                $row2= mysql_fetch_assoc($result2);
                echo'<br />Client 2: <a
href="client.php?client='.$row['clientID2'].'">'.$row2['clientFirst'].' '.$row2['clientLast'].'</td>';
            }
            else {
                echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';
            }
            echo'<td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a></td>
        </tr>';
            $print[$count] = 0;
        }
        else if(levenshtein($lowered['acronym'],$lowered['getTeamName']) <= 2 &&
levenshtein($lowered['acronym'],$lowered['getTeamName']) != 0 && $print[$count])
        {
            echo'
        <tr>
            <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'<br /><br
/>'.$row['acronym'].'</a></td>
            <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</a></td>';
            //Checks if there are two clients. If so, runs another query fo client 2's
first and last name.
            if($row['clientID2'] != "") {

```

```

        echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>;
        $x = "SELECT clientFirst, clientLast FROM Client WHERE
clientID =$row[clientID2]";
        $result2 = run_query($x);
        $row2= mysql_fetch_assoc($result2);
        echo'<br />Client 2: <a
href="client.php?client='.$row['clientID2'].'">'.$row2['clientFirst'].' '.$row2['clientLast'].'</td>;
    }
    else {
        echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>;
    }
    echo'<td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a></td>
</tr>';
        $print[$count] = 0;
    }
    $count++;
}
echo'</table>';
}

```

```

/* Results of a search by Client Name */

```

```

if($type == 'client' && $entry != ""){

```

```

    $print = array();

```

```

    $q = "SELECT * FROM Client c, Team t WHERE t.clientID = c.clientID OR
t.clientID2 = c.clientID";

```

```

    $result = run_query($q);

```

```

    $cleanUnicodeStr = trim(preg_replace('#[^\p{L}\p{N}]+#u', '', $entry));

```

```

    $lowered['clientName'] = strtolower($cleanUnicodeStr);

```

```

    echo'

```

```

    <table border="1" width="90%" align="center" cellpadding="10px">

```

```

    <tr>

```

```

    <td>Client Name</td><td>Team Name</td><td>Project Name</td><td>Course
Year</td>

```

```

    </tr>';

```

```

    $count = 0;

```

```

    while ($row = mysql_fetch_assoc($result)) {

```

```

        $print[$count] = 1;

```

```

        $lowered['firstName'] = strtolower(trim(preg_replace('#[^\p{L}\p{N}]+#u',
", $row['clientFirst'])));

```

```

        $lowered['lastName'] = strtolower(trim(preg_replace('#[^\p{L}\p{N}]+#u',
", $row['clientLast'])));

        //exact
        if(levenshtein($lowered['firstName'],$lowered['clientName']) == 0 &&
        $print[$count])
        {
            echo'
            <tr>
                <td><a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a></td>
                <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'<br /><br
/>'.$row['acronym'].'</a></td>
                <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</a></td>
                <td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a>
                </tr>';
            $print[$count] = 0;
        }
        else if(levenshtein($lowered['lastName'],$lowered['clientName']) == 0 &&
        $print[$count])
        {
            echo'
            <tr>
                <td><a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</td>
                <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'<br /><br
/>'.$row['acronym'].'</a></td>
                <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</a></td>
                <td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a>
                </tr>';

            $print[$count] = 0;
        }
    }
}

```

```

        else
if(levenshtein($lowered['firstName'],$lowered['lastName'],$lowered['clientName']) == 0 &&
$print[$count])
    {
        echo'
            <tr>
            <td><a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</td>
            <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'<br /><br
/>'.$row['acronym'].'</a></td>
            <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</a></td>
            <td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a>
            </tr>';

        $print[$count] = 0;
    }
    else
if(levenshtein($lowered['lastName'],$lowered['firstName'],$lowered['clientName']) == 0 &&
$print[$count])
    {
        echo'
            <tr>
            <td><a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</td>
            <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'<br /><br
/>'.$row['acronym'].'</a></td>
            <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</a></td>
            <td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a>
            </tr>';

        $print[$count] = 0;
    }
    $count++;
}
} //end while

```

```

$result = run_query($q);
$count = 0;

while ($row = mysql_fetch_assoc($result)) {

    $lowered['firstName'] = strtolower(trim(preg_replace('#[^\p{L}\p{N}]+#u',
",,$row['clientFirst'])));
    $lowered['lastName'] = strtolower(trim(preg_replace('#[^\p{L}\p{N}]+#u',
",,$row['clientLast'])));

        //contains

        $result = run_query($q);
        $count = 0;
        while ($row = mysql_fetch_assoc($result)) {

            $lowered['firstName'] = strtolower(trim(preg_replace('#[^\p{L}\p{N}]+#u',
",,$row['clientFirst'])));
            $lowered['lastName'] = strtolower(trim(preg_replace('#[^\p{L}\p{N}]+#u',
",,$row['clientLast'])));
            $contains = explode(' ', $entry);

            $i = 0;

            for($i = 0; $i < count($contains); $i++)
            {
                if(strstr( $lowered['firstName'] . $lowered['lastName'], strtolower($contains[$i]))
!= FALSE && $print[$count])
                {
                    $print[$count] = 0;
                    echo'

                                <tr>
                                <td><a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</td>
                                <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'<br /><br
/>'.$row['acronym'].'</a></td>
                                <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</a></td>
                                <td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a>

```

```

        </tr>;
    }
}

$count++;

} //end while

//inexact
if(levenshtein($lowered['firstName'],$lowered['clientName']) <= 2 &&
levenshtein($lowered['firstName'],$lowered['clientName']) !=0 && $print[$count])
{
    echo'
        <tr>
        <td><a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</td>
        <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'<br /><br
/>'.$row['acronym'].'</a></td>
        <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</a></td>
        <td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a>
        </tr>;

        $print[$count] = 0;
    }
    else if(levenshtein($lowered['lastName'],$lowered['clientName']) <= 2 &&
levenshtein($lowered['lastName'],$lowered['clientName']) != 0 && $print[$count])
    {
        echo'
            <tr>
            <td><a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</td>
            <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'<br /><br
/>'.$row['acronym'].'</a></td>
            <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</a></td>
            <td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a>

```



```

        </tr>;

        $print[$count] = 0;
    }
    else if(levenshtein($lowered['firstName'] .
$lowered['lastName'],$lowered['clientName']) <= 3 && levenshtein($lowered['firstName'] . ' ' .
$lowered['lastName'],$lowered['clientName']) !=0 && $print[$count])
    {
        echo'
            <tr>
            <td><a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</td>
            <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'<br /><br
/>'.$row['acronym'].'</a></td>
            <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</a></td>
            <td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a>
            </tr>;

        $print[$count] = 0;
    }
    else if(levenshtein($lowered['lastName'] .
$lowered['firstName'],$lowered['clientName']) <= 3 && levenshtein($lowered['lastName'] . ' ' .
$lowered['firstName'],$lowered['clientName']) != 0 && $print[$count])
    {
        echo'
            <tr>
            <td><a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</td>
            <td><a
href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'<br /><br
/>'.$row['acronym'].'</a></td>
            <td><a
href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br /><br
/>'.$row['projectAcronym'].'</a></td>
            <td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a>
            </tr>;

        $print[$count] = 0;
    }
}

```

```

        $count++;
    } //end while
    echo'</table>';
}

/* Results of a search by Course Year */
if($type == 'year' && $entry != ""){
    $entry = str_replace("-", " ", $entry);
    $piece = explode(" ", $entry);
    $year1 = $piece[0];
    $year2 = $piece[1];

    $q = "SELECT * FROM Team t, Client c WHERE (fallYear = '$year1' OR springYear
= '$year2' OR fallYear = '$year2' OR springYear = '$year1') AND t.clientID = c.clientID";
    $results = run_query($q);

    echo'
<table border="1" width="90%" align="center" cellpadding="10px">
<tr>
<td>Team Name</td><td>Project Name</td><td>Client Name(s)</td><td>Course
Year</td>
</tr>';
    while($row = mysql_fetch_array($results, MYSQL_ASSOC)) {
        echo'
<tr>
<td><a href="team.php?team='.$row['teamName'].'">'.$row['teamName'].'<br
/><br />'.$row['acronym'].'</a></td>
<td><a href="team.php?team='.$row['teamName'].'">'.$row['projectName'].'<br
/><br />'.$row['projectAcronym'].'</a></td>';
        //Checks if there are two clients. If so, runs another query fo client 2's
first and last name.
        if($row['clientID2'] != "") {
            echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';
            $x = "SELECT clientFirst, clientLast FROM Client WHERE
clientID =$row[clientID2]";
            $result2 = run_query($x);
            $row2= mysql_fetch_assoc($result2);
            echo'<br />Client 2: <a
href="client.php?client='.$row['clientID2'].'">'.$row2['clientFirst'].' '.$row2['clientLast'].'</td>';
        }
        else {
            echo'<td>Client 1: <a
href="client.php?client='.$row['clientID'].'">'.$row['clientFirst'].' '.$row['clientLast'].'</a>';
        }
    }
}

```

```
                echo'<td><a
href="course.php?course='.$row['fallYear'].'">'.$row['fallYear'].'</a> - <a
href="course.php?course='.$row['springYear'].'">'.$row['springYear'].'</a>
                </tr>';
            }

            echo'</table>';
        }

elseif ($entry == "") {
    echo '<p>No value entered, please go back and enter a value in one of the options.</p>';
}

make_footer();
?>
```

1.13 robot.php

```
<?
/**
 * Killer Robots page for Software Engineering II. When the user first loads the page, if within
the semester, will go directly to the next
 * nearest date on the calendar. If not loaded within the semester, will load normally.
 *
 * User also has the option to choose a date to go to within the calendar with a drop down
menu. If they choose a date within the semester,
 * they'll be directed to the nearest date on the calendar. Otherwise, they'll receive an alert that
they chose a date outside of the semester.
 */
include ("includes.php");
make_header("Software Engineering II");
main_menu("Robot", 2);

// Executes the JavaScript function in includes.php
// NOTE TO EDITOR: Must change var begin and var end before beginning of semester in
includes.php php function goToDate2() inside javascript function Calendar (form).
goToDate2();
?>
<!-- calls the JavaScript goToDate() function which is in the includes.php file when page loads
-->
<body onLoad="goToDate()">

<h1>Software Engineering II - Kill Robot Discussion</h1>
<table id="robot" border="0" cellpadding="1" cellspacing="1">
  <tr>
    <td colspan="2"><strong><i>The Case of the Killer Robot</i>" - Discussions for the
Spring 2011 Semester</strong></td>
  </tr>
  <tr>
    <td rowspan="7" align="right"></td>
    <td><em><strong>The Killer Robot Papers </strong></em></td>
  </tr>
  <tr>
    <td><em><strong> Richard G. Epstein </strong></em></td>
  </tr>
  <tr>
    <td><em><strong> West Chester University of PA, West Chester, PA 19383
</strong></em></td>
```

```

</tr>
<tr>
  <td><em><strong> epstein@golden.wcupa.edu </strong></em></td>
</tr>
<tr>
  <td><em><strong> Copyright &copy; 1989,1994 Richard G.
Epstein</strong></em></td>
</tr>
</table>
<blockquote>
  <p><strong>Permission is granted to copy this material for use in classroom instruction at
a college or university. This material may not be copied for any other purpose without express
written permission of the author. </strong></p>
  <p><strong>This online archive contains the Killer Robot Papers consisting of seven
newspaper articles, one journal article and one Sunday newspaper magazine interview. The
Case of the Killer Robot book, published by John Wiley & Sons (Epstein 1997), contains a
lot more material. </strong></p>
  <p><strong>The persons and institutions involved in this scenario are entirely fictitious
(except for the references to the venerable computer scientists: Ben Shneiderman and Jim
Foley). Silicon Valley was chosen as the location for the accident because Silicon Valley is an
icon of high technology. All of the persons, business entities and institutions named in Silicon
Valley are purely fictitious. Silicon Valley University is purely fictitious and has nothing to do
with any actual university in Silicon Valley or elsewhere. It is just a fictitious device. <a
href="http://www.macs.hw.ac.uk/%7Enkt/praxis/epstein/papers/index.sht">N.K.Taylor@hw.ac
.uk</a></strong></p>
</blockquote>
  <p><a href="killer_robot/index.html" class="style32">Questions for Killer Robot
Discussions</a></p>

<!-- Executes the cal_dropdown function in the includes.php file, to make drop down menu of
dates -->
<? cal_dropdown("robot.php"); ?>
<!--
NOTE TO EDITOR:
Each anchor like (eg. <a name="September08"></a> ) must be inside the <td> tags. These will
have to
be updated each year to correspond with the new calendar. The current format is as follows
<tr valign="top">
  <td><a name="MonthDay"></a><a name="MonthDay"></a><a
name="MonthDay"></a>etc... Month</td>
  <td>Day</td>
  <td>In-Class Activities</td>
  <td>Assignments</td>
</tr>
-->

```

```

<div id="calendar">
  <!-- Killer Robots Table -->
  <table class="se_table" border="1" cellpadding="1" cellspacing="1">
    <tr>
      <td>
        <a name="January25"></a>
        <strong>Tuesday<br />January 25</strong>
      </td>
      <td>
        <ul>
          <li><a href="http://legacy.ncsu.edu/classes-
a/computer_ethics/risks/safety/killer_robot/killer_intro.html">Introduction</a></li>
          <li><a href="killer_robot/Killer Robot Cast.htm">Cast of Characters</a></li>
          <li><a href="killer_robot/Killer Robot words terms people.htm">Words, Terms,
&amp; Allusions</a></li>
        </ul>
      </td>
      <td><strong>0. Dr. Lederman</strong></td>
    </tr>
    <tr>
      <td>
        <a name="January26"></a><a name="January27"></a><a name="January28"></a><a
name="January29"></a><a name="January30"></a><a name="January31"></a><a
name="February01"></a>
        <strong>Tuesday<br /> February 1</strong>
      </td>
      <td><i>Class was cancelled</i></td>
      <td>&nbsp;</td>
    </tr>
    <tr>
      <td>
        <a name="February02"></a><a name="February03"></a><a
name="February04"></a><a name="February05"></a><a name="February06"></a><a
name="February07"></a><a name="February08"></a>
        <strong>Tuesday<br /> February 8</strong>
      </td>
      <td>
        <strong>1. </strong><a
href="http://ethics.csc.ncsu.edu/risks/safety/killer_robot/killer_news1.html">Silicon Valley
programmer indicted for manslaughter</a><br />
        <strong>2. </strong><a
href="http://ethics.csc.ncsu.edu/risks/safety/killer_robot/killer_news2.html">Developers of
'Killer Robot' worked under enormous stress</a><br />
      </td>
      <td><strong>1. Empire Unlimited<br /> 2. Code Shark Solutions</strong></td>
    </tr>
  </table>

```

```

</tr>

<tr>
  <td>
    <a name="February09"></a><a name="February10"></a><a
name="February11"></a><a name="February12"></a><a name="February13"></a><a
name="February14"></a><a name="February15"></a>
    <strong>Tuesday<br /> February 15</strong>
  </td>
  <td>
    <strong>3. </strong><a
href="http://ethics.csc.ncsu.edu/risks/safety/killer_robot/killer_news3.html">&quot;Killer
Robot&quot; programmer was Prima Donna, co-workers claim</a><br />
    <strong>4. </strong><a href="killer_robot/Killer Robot
Papers/killer_news4.html">&quot;Killer Robot&quot; project mired in controversy right from
start</a><br />
  </td>
</tr>
<tr>
  <td><strong>3. Empire Unlimited<br />4. Code Shark Solutions</strong></td>
</tr>
<tr>
  <td><a name="February16"></a><a name="February17"></a><a
name="February18"></a><a name="February19"></a><a name="February20"></a><a
name="February21"></a><a name="February22"></a>
    <strong>Tuesday<br />February 22</strong>
  </td>
  <td>&nbsp;</td>
  <td>&nbsp;</td>
</tr>
<tr>
  <td>
    <a name="February23"></a><a name="February24"></a><a
name="February25"></a><a name="February26"></a><a name="February27"></a><a
name="February28"></a><a name="March01"></a>
    <strong>Tuesday<br />March 1</strong>
  </td>
  <td>
    <strong>Detailed Design Presentation</strong>
  </td>
  <td>&nbsp;</td>
</tr>

<tr>
  <td>
    <a name="March02"></a><a name="March03"></a><a name="March04"></a><a
name="March05"></a><a name="March06"></a><a name="March07"></a><a
name="March08"></a>

```

```
<strong>Tuesday<br />March 8</strong>
</td>
<td>
  <strong>5. </strong><a href="http://legacy.ncsu.edu/classes-
a/computer_ethics/risks/safety/killer_robot/killer_news5.html">The &quot;Killer Robot&quot;
interface</a></strong><br />

  <strong>6. </strong><a href="http://legacy.ncsu.edu/classes-
a/computer_ethics/risks/safety/killer_robot/killer_news6.html">Silicon Techtronics promised to
deliver a safe robot</a></strong><br />
</td>
<td>
  <strong>5. Empire Unlimited</strong><br />
  <strong>6. Code Shark Solutions</strong>
</td>
</tr>

<tr>
<td>
  <a name="March09"></a><a name="March10"></a><a name="March11"></a><a
name="March12"></a><a name="March13"></a><a name="March14"></a><a
name="March15"></a><a name="March16"></a><a name="March17"></a><a
name="March18"></a><a name="March19"></a><a name="March20"></a><a
name="March21"></a><a name="March22"></a>
  <strong>Tuesday<br />March 22</strong>
</td>
<td>&nbsp;</td>
<td>&nbsp;</td>
</tr>

<tr>
<td>
  <a name="March23"></a><a name="March24"></a><a name="March25"></a><a
name="March26"></a><a name="March27"></a><a name="March28"></a><a
name="March29"></a>
  <strong>Tuesday<br />March 29</strong>
</td>
<td>
  <strong>7. </strong><a href="http://legacy.ncsu.edu/classes-
a/computer_ethics/risks/safety/killer_robot/killer_news7.html">Software engineer challenges
authenticity of &quot;Killer Robot&quot; software tests</a><br />
  </td>
<td>&nbsp;</td>
</tr>

<tr>
```


<td>

Tuesday
April 5

</td>

<td>

8. Silicon Techtronics employee admits faking software tests

</td>

<td> </td>

</tr>

<tr>

<td>

Tuesday
April 12

</td>

<td>

9. A conversation with Dr. Harry Yoder

ACM Code of Ethics and Professional Conduct

IEEE Code of Ethics

Software Engineering Code of Ethics and Professional Practice

</td>

<td> </td>

</tr>

<tr>

<td>

Tuesday
April 19

</td>

<td>
10. The Trial of Randy Samuels

11. Who Really Killed Bart Matthews</p>
<p>>>Discussion: Who is responsible? All teams bring a list</p>

</td>
<td>>> All Teams make a list</td>
</tr>

<tr>
<td>

Tuesday
April 26

</td>
<td>
Acceptance Test Presentations
</td>
<td> </td>
</tr>

<tr>
<td>

Tuesday
May 2

</td>
<td>
Party in RB-340
</td>
<td> </td>

</tr>
</table>

<table width="453" border="0" align="center">
<tr>
<th scope="row"><div align="left">Questions for Killer Robot Discussions</div></th>
</tr>

```

<tr>
  <th scope="row">&nbsp;</th>

</tr>
<tr>
  <th scope="row"><div align="left"><span class="style7">Links with Supplementary
Information </span></div></th>
</tr>
<tr>
  <th scope="row"><div align="left"><a
href="http://www.anu.edu.au/people/Roger.Clarke/SOS/Asimov.html#Laws1940"><strong>Isa
ac Asimov's Three Laws of Robotics (1940)</strong></a></div></th>
</tr>
<tr>
  <th scope="row"> <div align="left"><a
href="http://www.acm.org/constitution/code.html"><strong>Association of Computer
Machinery (ACM) Code of Conduct </strong></a> </div></th>
</tr>
<tr>
  <th scope="row"> <div align="left"><strong><a
href="http://www.ieee.org/portal/pages/iportals/aboutus/ethics/code.html">IEEE Code of
Ethics</a> </strong></div></th>
</tr>
<tr>
  <th scope="row"><div align="left"><a
href="http://en.wikipedia.org/wiki/Ten_Commandments_of_Computer_Ethics"><strong>Ten
Commanments of Computer Ethics</strong></a></div></th>
</tr>
<tr>
  <th scope="row"><div align="left"><a href="http://www.eff.org/"><strong>The
Electronic Frontier Foundation (EFF)</strong></a> </div></th>
</tr>
<tr>
  <th scope="row"><div align="left"><a
href="http://www.computer.org/portal/site/ieeecs/menuitem.c5efb9b8ade9096b8a9ca0108bcd4
5f3/index.jsp?&pName=ieeecs_level1&path=ieeecs/education/certification&file
=ethics.xml&xsl=generic.xsl"><strong>Software Engineering Code of Ethics and
Professional Practice</strong></a></div></th>

</tr>
<tr>
  <th scope="row"><div align="left"><a href="http://onlineethics.org/"><strong>Online
Ethics Center for Engineering and Science</strong></a></div></th>
</tr>

```

```

<tr>
  <th scope="row"><div align="left"><a
href="http://www.onlineethics.org/CMS/5157.aspx?mid=2170">Ethical Codes &
Guidelines - Examples</a></div></th>
</tr>

<tr>
  <th scope="row"><div align="left"><a
href="http://www.onlineethics.org/CMS/profpractice/ethcodes/13411/guidelines.aspx"><strong
>Guidelines for Engineers Dissenting on Ethical Grounds </strong></a></div></th>
</tr>
<tr>
  <th scope="row"><div align="left"><a
href="http://www.rsc.org/images/2_Difference_tcm18-17644.pdf"><strong>Criminal Liability
and Civil Liability</strong></a></div></th>
</tr>
<tr>
  <th scope="row"><div align="left"><a
href="http://ethics.iit.edu/codes/computer.html"><strong>Codes of Ethics in Computing and
Information Systems</strong></a> </div></th>

</tr>
<tr>
  <th scope="row"><div align="left"><a
href="http://www.scu.edu/ethics/practicing/decision/thinking.html"><strong>A Framework for
Moral Decision Making</strong></a> </div></th>
</tr>
<tr>
  <th scope="row"><div align="left"><a
href="http://ethics.sandiego.edu/Glossary.html"><strong>A Glossary of Ethical Terminology
</strong></a></div></th>
</tr>

<tr>
  <th scope="row"><div align="left"><strong><a href="killer_robot/Ethical Decisions
Guidelines.htm">Guidelines for Ethical Decision-Making in the
Workplace</a></strong></div></th>
</tr>

</table>
</div>

<?
make_footer();
?>

```

1.14 search.php

```
<?
/**
 *      Search page of web site. User is able to search by Student Name, Team Name, Course
 *      Year, and Client Name.
 */

//Starts a session to keep user input and search results through a user's visit.
session_start();
include ("includes.php");
make_header("Search");
main_menu("Search");

//Form that user uses to search. Values stored as SESSION variables.
echo'
<h1>Search</h1>
<form action="search.php" method="post" name="studentForm">
Search by Student Name: &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="text" name="student"
value="".$_SESSION['student'].> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="submit" name="submit"
value="Search by Student Name"/>
</form><br /><br />
<form action="search.php" method="post" name="teamForm">
Search by Team Name: &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="text" name="team"
value="".$_SESSION['team'].> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="submit" name="submit"
value="Search by Team Name" />
</form><br /><br />
<form action="search.php" method="post" name="yearForm">
Search by Course Year: &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="text" name="year"
size="9" value="".$_SESSION['year'].> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="submit"
name="submit" value="Search by Course Year"/><br /><br />
</form><br />
<form action="search.php" method="post" name="clientForm">
Search by Client Name: &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="text" name="client"
value="".$_SESSION['client'].> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<input type="submit" name="submit"
value="Search by Client Name"/><br /><br />
</form><br /><br />
<p>To go through all the Software Engineering <strong>teams</strong> or <strong>course
years</strong> click below:</p>
<table align="center" cellpadding="10px" border="1">
  <tr>
    <th><a href="allteam.php">All Team Names</a></th>
    <th><a href="allyear.php">All Course Years</a></th>
  </tr>
</table>';
```

```

if($_POST['submit'] == "Search by Student Name")
{
    // Value of what type of search the user did
    $_SESSION['search'] = 'student';
    // Value to remember the user input in case they come back
    $_SESSION['student'] = $_POST['student'];
    // Value to search for
    $_SESSION['entry'] = $_POST['student'];

    echo<SCRIPT language="JavaScript">window.location="results.php";</SCRIPT>;
}
else if($_POST['submit'] == "Search by Team Name")
{
    // Value of what type of search the user did
    $_SESSION['search'] = 'team';
    // Value to remember the user input in case they come back
    $_SESSION['team'] = $_POST['team'];
    // Value to search for
    $_SESSION['entry'] = $_POST['team'];
    echo<SCRIPT language="JavaScript">window.location="results.php";</SCRIPT>;
}
else if($_POST['submit'] == "Search by Course Year")
{
    // Value of what type of search the user did
    $_SESSION['search'] = 'year';
    // Value to remember the user input in case they come back
    $_SESSION['year'] = $_POST['year'];
    // Value to search for
    $_SESSION['entry'] = $_POST['year'];
    echo<SCRIPT language="JavaScript">window.location="results.php";</SCRIPT>;;
}
else if($_POST['submit'] == "Search by Client Name")
{
    // Value of what type of search the user did
    $_SESSION['search'] = 'client';
    // Value to remember the user input in case they come back
    $_SESSION['client'] = $_POST['client'];
    // Value to search for
    $_SESSION['entry'] = $_POST['client'];
    echo<SCRIPT language="JavaScript">window.location="results.php";</SCRIPT>;
}
make_footer();
?>

```

1.15 soft1.php

```
<?
/**
 * Software Engineering I Home page with course description.
 */
include ("includes.php");
make_header("Software Engineering I");
main_menu("Software Engineering I", 1);
?>
<h1>Software Engineering I - Course Description</h1>
<strong>CSIS-410. Software Engineering I (3 credits)</strong>

<p>Introduces the concepts of structured system analysis. Presents principles of software
engineering including techniques for planning, specification, and system design. Specifications
for an actual system will be developed. Prerequisite: CSIS—225. Recommended for all senior-
level Computer Science majors</p>

<?
make_footer();
?>
```

1.16 soft2.php

```
<?
/**
 * Software Engineering II Home page with course description.
 */
include ("includes.php");
make_header("Software Engineering II");
main_menu("Software Engineering II", 2);
?>
<h1>Software Engineering II - Course Description</h1>
<strong>CSIS-415. Software Engineering II (3 credits)</strong>
<p>Implementation of a software engineering methodology. Complete design, testing, and
verification of a system developed using a programming team concept. Structured design and
documentation. Prerequisite: CSIS—410</p>

<?
make_footer();
?>
```


1.17 speakers.php

```
<?
/**
 * Speakers page for Software Engineering II. When the user first loads the page, if within the
 * semester, will go directly to the next nearest date
 * on the calendar. If not loaded within the semester, will load normally.
 *
 * User also has the option to choose a date to go to within the calendar with a drop down
 * menu. If they choose a date within the semester,
 * they'll be directed to the nearest date on the calendar. Otherwise, they'll receive an alert that
 * they chose a date outside of the semester.
 */

include ("includes.php");
make_header("Software Engineering II");
main_menu("Speakers", 2);

// Executes the JavaScript function in includes.php
// NOTE TO EDITOR: Must change var begin and var end before beginning of semester in
includes.php php function goToDate2() inside javascript function Calendar (form).
goToDate2();
?>
<!-- calls the JavaScript goToDate() function which is in the includes.php file when page loads
-->
<body onLoad="goToDate()">

<h1>Software Engineering II - Speakers</h1>

<p><strong>Throughout the Spring semester, Siena College Computer Science Alumni and
other professionals are scheduled to make presentations about how their organizations develop
software. The speakers provide information on how they employ different models for Software
Engineering, with emphasis on requirements, design, and testing. Speakers discuss techniques,
policies, and procedures that are followed at their organization (or that are not being followed,
or that have been followed but are no longer deployed). In addition, the speakers discuss their
career paths, their continued education (graduate courses, graduate degrees, training courses,
and professional certifications), and how they balance their personal and private
lives.</strong></p>
<p>All presentations are in Roger Bacon 328, and they start at 6:00 pm, and they last about an
hour.</p>
<!-- Executes the cal_dropdown function in the includes.php file, to make drop down menu of
dates -->
<? cal_dropdown("speakers.php"); ?>
```

```
<!--
```

```
NOTE TO EDITOR:
```

```
Each anchor like (eg. <a name="September08"></a> ) must be inside the <td> tags. These will have to
```

```
be updated each year to correspond with the new calendar. The current format is as follows
```

```
<tr valign="top">
```

```
  <td><a name="MonthDay"></a><a name="MonthDay"></a><a name="MonthDay"></a>etc... Month</td>
```

```
  <td>Day</td>
```

```
  <td>In-Class Activities</td>
```

```
  <td>Assignments</td>
```

```
</tr>
```

```
-->
```

```
<div id="calendar">
```

```
<table class="se_table" border="1" cellpadding="1" cellspacing="1">
```

```
  <tbody>
```

```
  <tr>
```

```
    <td>
```

```
      <a name="January28"></a><a name="January29"></a><a name="January30"></a><a name="January31"></a><a name="February01"></a>
```

```
      <strong>Tuesday<br />February 1</strong>
```

```
    </td>
```

```
    <td><p><i>no presentation</i></p></td>
```

```
  </tr>
```

```
  <tr>
```

```
    <td>
```

```
      <a name="February02"></a><a name="February03"></a><a name="February04"></a><a name="February05"></a><a name="February06"></a><a name="February07"></a><a name="February08"></a>
```

```
      <strong>Tuesday<br />February 8</strong>
```

```
    </td>
```

```
    <td><p><i>snow day cancellation</i></p></td>
```

```
  </tr>
```

```
  <tr>
```

```
    <td>
```

```
      <a name="February09"></a><a name="February10"></a><a name="February11"></a><a name="February12"></a><a name="February13"></a><a name="February14"></a><a name="February15"></a>
```

```
      <strong>Tuesday<br />February 15</strong>
```

```
    </td>
```

```
    <td>
```

```
      <p><strong>Das Nobel</strong>, BS (Siena, 2006), MS (???)</p>
```

```
      <strong><em>"Database Optimization"</em></strong><a
```

```
href="http://www.cs.siena.edu/~lederman/SoftEng/Guest-Presentations/Nobel-2011.htm"></a>
```

```

</td>
</tr>
<tr>
<td>
<a name="February16"></a><a name="February17"></a><a
name="February18"></a><a name="February19"></a><a name="February20"></a><a
name="February21"></a><a name="February22"></a>
<strong>Tuesday<br />February 22</strong>
</td>
<td>
<p><a href="http://www.cs.siena.edu/people/swarner.php">Ken Swarner</a> and Eric
Crossman, BS (Siena 2003) Systems & Operations Managers, ITS, Siena College </p>
<strong><em>"PHP For Fun & Profit"</em></strong><a
href="http://oraserv.cs.siena.edu/~ks5217/PHPInfo/"></a>
</td>
</tr>
<tr>
<td>
<a name="February23"></a><a name="February24"></a><a
name="February25"></a><a name="February26"></a><a name="February27"></a><a
name="February28"></a><a name="March01"></a>
<strong>Tuesday<br />March 1</strong>
</td>
<td><strong>Detailed Design Presentations</strong></td>
</tr>
<tr>
<td>
<a name="March02"></a><a name="March03"></a><a name="March04"></a><a
name="March05"></a><a name="March06"></a><a name="March07"></a><a
name="March08"></a>
<strong>Tuesday<br />March 8</strong>
</td>
<td>
<p><strong>Justin Valentini,</strong> BS (Siena, 2007) <a href="http://www.xerox-
xls.com/">Xerox Litigation Services</a></p>
<strong><em>"a day in the life of a programmer" </em></strong>
</td>
</tr>
<!-- Winter Break Insert -->
<tr>
<td colspan="3">
<a name="March09"></a><a name="March10"></a><a name="March11"></a><a
name="March12"></a><a name="March13"></a><a name="March14"></a><a
name="March15"></a>
<p>Tuesday, March 15</p>

```

<p>Winter Break</p>

</td>
</tr>
<tr>
<td>

Tuesday
March 22
</td>
<td>
<p>Keith Parent,
Mark Riley, (Siena, 2007)
IT Specialist 3 (formerly called Associate Programmer/Analyst) New York State Department of Motor Vehicles, Applications Development </p>
<p>"Service Oriented Architecture, SOA"</p>
</td>
</tr>
<tr>
<td>

Tuesday
 March 29
</td>
<td>
<p>John Sawicki, BS (Siena, 2005)
Software Developer, Grid Operation Products, New York Independent System Operator </p>
"Real-World Application Development:
Overview and Usage of Third Party Frameworks"
<p>Jim Manico, BS (Siena, 1997)
Web Application Architect, The Manicode Group</p>
"Testing Web Applications for Critical Security Vulnerabilities"
</td>
</tr>
<tr>
<td>

<p>Tuesday April 5</p>
<p>Matt Warner, BS (Siena, 2006) "Transitioning from Java to .NET programming" Chris Vincek, BS in Computer Science (Siena, 2008), MS in Information Technology (RPI, 2010) "Do-It-Yourself Usability Testing"</p>
<p>April 6 April 7 April 8 April 9 April 10 April 11 April 12 Tuesday April 12</p>
<p>John LaBatt, Esq. BS in Computer Science (1993, Siena); MS in Computer Science (1995, RPI), JD (2001, Albany Law School) Patent Attorney, http://www.hoffmanwarnick.com/ Hoffman Warnick LLC Mike Cusack, Esq., BS in Computer Science (1986); JD (1990, Albany Law School), cusacklaw@verizon.net Attorney at Law (Telecommunications, Land Use, Environmental and Municipal Law), Counsel to http://www.youngsommer.com/ Young, Sommer, Ward, Ritzenberg, Baker & Moore, LLC, "Does The World Need More Lawyers? Maybe, with a Computer Science degree?"</p>
<p>April 13 April 14 April 15 April 16 April 17 April 18 April 19 Tuesday April 19</p>
<p>NO SPEAKER - Killer Robot Discussions; and, Benefits/Retirement</p>

```
<td>
  <a name="April20"></a><a name="April21"></a><a name="April22"></a><a
name="April23"></a><a name="April24"></a><a name="April25"></a><a
name="April26"></a>
  <strong>Tuesday<br />April 26</strong>
</td>
<td>
  <strong>Acceptance Test</strong>
  <p><strong>Joe Piperata</strong>, BS, Computer Science, Siena College, 1995, <a
href="mailto:joep@cisco.com">joep@cisco.com</a><br />
  <a href="http://www.cisco.com/">Cisco Systems</a></p>
  <em><strong>"Evolving Hardware &amp; Software Solutions for the Next Generation
Data Center"</strong></em>
</td>
</tr>
<tr>
  <td>
    <a name="April27"></a><a name="April28"></a><a name="April29"></a><a
name="April30"></a><a name="April31"></a><a name="May01"></a><a
name="May02"></a><a name="May03"></a><a name="May04"></a><a
name="May05"></a>
    <strong>Monday<br/>May 2</strong>
  </td>
  <td><strong>Party in RB-340</strong> at 8:00pm - Team Songs at 9:00pm</strong></td>
</tr>
</tbody>
</table>
</div>
<?
make_footer();
?>
```

1.18 student.php

```
<?
/**
 * Page where user go if they click on a student name on the results.php page.
 */
session_start();
include ("includes.php");
make_header("Results");
main_menu("Search");

//Get the studentID from results.php
$studentID = $_GET['student'];

//SQL query to get all information from Client, Student, and Team tables where teamName of
the Student is equal to a Team Name, and that team's client ID(s) is equal to a client ID in the
Client table.
$q = "SELECT * FROM Student s, Team t, Client c WHERE (s.teamNameFall = t.teamName
OR s.teamNameSpring = t.teamName) AND t.clientID = c.clientID AND s.studentID =
$studentID";

//runs the query and stores it in a variable
$results = run_query($q);

//Takes the results and uses mysql_fetch_array to make an array of the results, using
MYSQL_ASSOC to be able to use the column_names
$row = mysql_fetch_array($results, MYSQL_ASSOC);

//Print button and Back to Results button to go back to the results.php page

//Display results of $q. $row formatted as follows: $row['column_name'].
echo'
<input type="button" value="Print this page" onclick="window.print();return false;" />
&nbsp;<input type="button" value="Back to Results" onclick="window.location.href=
\'results.php\'" />
<br /><br />
<h2>'.$row['firstName'].' '.$row['lastName'].'</h2>

<table id="table_results" border="1" cellpadding="10px">
  <tr>
    <th valign="top">';
    //If no Team Picture, don't echo <a> and <img> tags
    if($row['teamPic'] != "")
```

```

        {
            echo'<a href="'. $row['siteLink']. "'
title="'. $row['teamName']. "'>.imageResize($row['teamPic'],400).</a><br /><br />';
        }
        echo'
        <a href="'. $row['siteLink']. "'
title="'. $row['teamName']. "'>. $row['teamName'].</a></p>
        <p><u>Team Acronym:</u> ' . $row['acronym'].</p>
        <p><u>Project Name:</u> ' . $row['projectName'].</p>
        <p><u>Project Acronym:</u> ' . $row['projectAcronym'].</p>';
        //Checks if there are two clients. If so, runs another query fo client 2's
first and last name.
        if($row['clientID2'] != "") {
            $y = "SELECT clientFirst, clientLast FROM Client WHERE
clientID = $row[clientID2]";
            $result3 = run_query($y);
            $row3 = mysql_fetch_assoc($result3);
            echo'<p><u>Client(s):</u> ' . $row['clientFirst']. '
'. $row['clientLast']. ', ' . $row3['clientFirst']. ' . $row3['clientLast']. ' </p>';
        }
        elseif($row['clientID2'] == "") {
            echo'<p><u>Client(s):</u> ' . $row['clientFirst']. '
'. $row['clientLast']. ' </p>';
        }
        echo'<p><u>Team Song</u></p>
        <a href="'. $row['song']. "' title="Team Song">. $row['song'].</a><br /><br />
        <p><u>Project Demo:</u></p>
        <a href="'. $row['demo']. "' title="Project Demo">. $row['demo'].</a><br />
    </th>
    <th valign="top">
        <h3>. $row['fallYear']. ' - ' . $row['springYear'].</h3>
        <h3>. $row['firstName']. ' ' . $row['lastName'].</h3>
        <div id="img_div">';
        //If no Student Picture, don't echo <a> and <img> tags
        if($row['picture'] != "")
        {
            echo'<a href="'. $row['resume']. "' title="'. $row['firstName']. '
'. $row['lastName']. "'>.imageResize($row['picture'], 200).</a>';
        }
        echo'
        </div>
        <p>Team Members R&eacute;sum&eacute;s:</p>';
        $teamName = $row['teamName'];
        //Another SQL query to get all the team members and their information
given teamName = $teamName

```



```

        $q = "SELECT resume, firstName, lastName FROM Team t, Student s
WHERE t.teamName = '$teamName' AND (s.teamNameFall = t.teamName OR
s.teamNameSpring = t.teamName)";
        $results = run_query($q);
        while($row = mysql_fetch_array($results, MYSQL_ASSOC))
        {
            echo '<a href="'. $row['resume'].'" title="'. $row['firstName']. '
'. $row['lastName'].'">'. $row['firstName']. ' '. $row['lastName']. '</a><br /><br />';
        }
        echo'</th>
</tr>
</table>
';
make_footer();
?>
```

1.19 syllabus1.php

```
<?
/**
 * Software Engineering I Syllabus page.
 */
include ("includes.php");
make_header("Software Engineering I");
main_menu("Syllabus I", 1);
?>
<h1>Software Engineering I - Syllabus</h1>
<strong>COURSE SYLLABUS FOR THE FALL 2010 SEMESTER</strong>
<p><strong>Dr. Timoth Lederman<br />
  Office Hours: Wednesday, &amp; Friday 9:30 am - 12:00 noon<br />
  And, by appointment (made at least 24 hours in advance via email or phone)</strong></p>
<p><strong>Office: Roger Bacon 326<br />
  Phone: 783-4197<br />

  email: <a href="mailto:lederman@siena.edu">lederman@siena.edu</a></strong></p>
<p><strong>This syllabus gives an overview of the course (with some information about the
second semester, CSIS-415), including information on projects, schedules, teams, grading, and
other matters. I update and revise this syllabus throughout the semester. Please keep this link
for a reference throughout the entire year.</strong></p>
<p><strong>PROJECTS: (CSIS-410 and CSIS-415)</strong></p>
<p><strong>Two projects will be presented and discussed in class during the first class of the
semester. A brief and terse description of the projects will be provided by the prospective
clients on the first day of class. </strong></p>
<p><em><strong>1. Dr. Robert Yoder, Associate Professor (and Department Head) of
Computer Science, Siena College</strong></em><br />
  Produce a weekly display of classroom useage for the Computer Science Department. This
should provide displays by room and by faculty and as a composit for all rooms and faculty.
</p>

<p><em><strong>3. Dr. Timoth Lederman, Professor of Computer Science</strong></em><br
/>
  Produce a better set of webpages for the information provided on the Siena College Software
Engineering websites. This undertaking will includecorrecting all former teams' websites so
that are web-page-addressing is relative.</p>
<p><strong>During the first week, teams will be selected. The teams will remain the same
during the entire semester</strong></p>
<p><strong>The projects will be carried over into the second semester.</strong></p>
```

Team leaders will be elected for the first semester. At the beginning of the second semester, teams might be reorganized and the instructor will select new team leader(s).

WORK BREAKDOWN BY SEMESTER

First Semester:

- Group formation – choose team leaders and team members (4 to 6 people per team)

- Choose "middle management" (or, at least a librarian and systems administrator)

- Each group will complete a Software Plan (Problem Definition & Project Plan)

- Each group will complete a Software Specification (Requirements Specification)

- Each group will complete a revised (and improved) Software Specification

- Each group will complete a Preliminary Design

Second Semester:

- Re-group or keep the same groups - this decision will be made between semesters by the instructor.

- Each group will complete a Detailed Design & Test Design
(These include more design-based inventories for testing)

- Each group will Code and Unit Test their implementation (their "product")

- Each group will Integration Test their implementation

- Each group will System Test their implementation

- Each group will deliver a finished (and tested) product

- In class

- At the Academic Celebration in late April or early May

MEETINGS:

Group Meetings:

Each group (and sub-group) should meet as necessary to accomplish the required work. It is the responsibility of the Group Leader or Sub-group Leader to call meetings at a time convenient to the group members. The Group Leader or Sub-group Leader must take attendance and keep accurate records for rating purposes. The Group Leader or Sub-group Leader may excuse a member from attendance for a valid reason (but this is still an absence).

Some class time will be allocated for group meetings, but this will be limited during the first semester (and more common during the second semester). During the second semester, more class time will be used for project reviews and "walk-throughs".

Group Leader Meetings:

Group Leaders will meet with the instructor once each week. The team leaders must schedule these meetings.

Pandemic/Emergency Preparedness

(a) You are instructed to bring all texts and a copy of the syllabus/course schedule home with you in the event of a College Closure. The Academic Calendar will be adjusted upon Reopening; so be prepared for the possibility of a short mini-semester; rescheduled class/exam period; and /or rescheduling of the semester, depending on the length of the Closure.

(b) If your situation permits, you should continue with readings and assignments to the best of your ability, per the course schedule.

(c) You will be given instructions regarding how to deal with paper assignments requiring library or other required research by me, as needed.

(d) Online office hours will be used by me in order to maintain contact with my students. You will be able to "check-in" with questions that you have. If you do not have internet access available, I will also provide my home phone number and home address, as needed. Remember, internet, mail delivery, and telephone services may also be impacted by a Pandemic or other emergency event.

(e) Finally, stay connected with information regarding the status of the College's status and Reopening schedule by monitoring the Siena website, www.siena.edu.

JOB DESCRIPTIONS for Group Leader, Sub-group Leader, and Librarian, Webmaster/Webmistress, System Administrator

(not all teams will have all these positions filled by name/title)

1. Group (Team) Leader

Duties:

-

- Organize the group for project implementation

- Choose Sub-group Leaders and Librarian

- Schedule group meetings - Schedule project reviews at group level

- Take attendance at group meetings

- Schedule meetings with the client

- Make sure that meeting notes are taken at team meeting and client meetings

- Make sure that meetings are submitted to the client and the professor

- Attend Group Leader meetings with Instructor (once or twice a week)

- Supervise group Librarian and all group members

- Rate/evaluate team members after each phase of the semester

-

Qualifications:

-

- High academic achievement

- Good communication skills
- Self-motivated, conscientious student
- Good leadership skills

<p>2. Sub-group Leader (most likely only in the second semester)</p>

<p>Duties:</p>

 Organize sub-group for either development or testing

 Schedule sub-group meetings - Schedule reviews and walk-throughs at sub-group level

 Take attendance at sub-group meetings

 Assist Group Leader in management of group activities

 Rate sub-group members at end of semester

<p>Qualifications</p>

:High academic achievement

Good communication skills

Self-motivated, conscientious student

Good leadership skills

<blockquote>

<p>Qualifications:</p>

 High academic achievement

Good communication skills

 Self-motivated, conscientious student

 Good leadership skills

<p>3. Librarian</p>

<p>Duties:</p>

 Be responsible for all documentation related to project work, including:

Software Plan: Project Definition and Project Plan,

Software Specification,

Preliminary Design,

Detailed Design,

Acceptance Test: Source Code, Test Plan & Test Results, User's Manual

<p>Qualifications:</p>

High academic achievement and a hard worker

Good organizational skills

Experience with website development

<p>4. Webmaster/Webmistress

5. Systems Administrator</p>

<p>Duties:</p>

 It is required that all documents be prepared and saved on a Software Engineering workstations.

It is required that all documents be published on a team (class) website.

Each team must have at least one member who maintains team workstations' users, and systems and applications software.

<p>Qualifications</p>

High academic achievement and a hard worker

Good organizational skills

Experience with website development

<?

make_footer();

?>

1.20 syllabus2.php

```
<?
/**
 * Software Engineering II Syllabus page.
 */
include ("includes.php");
make_header("Software Engineering II");
main_menu("Syllabus II", 2);
?>
<h1>Software Engineering II - Syllabus</h1>
<h2>Learning Goals <span>(highlighted items, below - taken from Computer Science
Department Learning Goals)</span></h2>
  <ol>
    <ol>
      <ol>
        <li><strong>Acquire a base of knowledge, skills, and ethical perspectives in computer
science upon which a lifetime of on-going learning and professional development can be
built.</strong></li>
        <li><strong>Apply critical thinking skills and technology to defining, modeling,
analyzing, evaluating, developing, and testing solutions to computing problems. </strong></li>
        <li><strong>Communicate computing ideas with clarity and coherence to technical and
non-technical audiences through writing and speaking. </strong></li>
        <li><strong>Exhibit an awareness of some of the important problems in computer
science and the nature of computer science research. </strong></li>
        <li><strong>Develop teamwork skills necessary to produce technical solutions
collaboratively as a member of a group. </strong></li>
      </ol>
    </ol>
  </ol>
<h2><strong>COURSE SYLLABUS FOR THE SPRING 2011 SEMESTER</strong></h2>
<p><strong>Instructor: Dr. Timoth C. Lederman, Roger Bacon 326<br />
  <br />
  Office Hours: <br />
  Monday/Wednesday/Friday: 10:15 am to 11:15 am<br />
  Tuesday: 2:00-4:00 pm<br />
  and, by appointment </strong></p>
<h3><strong>PROJECT: Continue work on the projects from last semester (three projects; 2
teams). </strong></h3>
<h3><strong>WORK BREAKDOWN FOR THE SEMESTER</strong></h3>
<ol>
  <li><strong> Discuss the status of the development environment</strong></li>
```

- Detailed Design Specification**
- Test Design**
- Database schema (if needed)**

- The program/system code**
- Unit Tests**
- Integration Tests**
- A System Test**
- An Acceptance Test – demonstration and test results**

- Team Song - presented by the entire team**

[Forms](#)

Samples of:

Team Leader - [001 Attendance Sheet for Team Leaders.xls](#)

Team Leader - [002 Eval by Team Leader.doc](#) Member Evaluation form (evaluate all members, including yourself)

[003 Log of Activities.xls](#) Individual Log form

[004 team-member-eval.doc](#) Individual Evaluation form (to be filled out by each member, including Team Leader):

PROJECT LEGACY

I would like you to be able to reflect upon what you have learned in the course. I also want you to have the opportunity to make suggestions about the course that you think would improve it. Therefore, you are required to submit a *Project Legacy* – a short 2-3 page paper – in which you write your thoughts and impression of Software Engineering in general, and of this class in particular. This paper must be turned in for you to pass Software Engineering II. I will not read this until after grades are turned in (I do this to encourage you to give honest and frank opinions of the material, of the course, and of the instruction)

PANDEMIC/EMERGENCY PREPAREDNESS

(a) You are instructed to bring all texts and a copy of the syllabus/course schedule home with you in the event of a College Closure. The Academic Calendar will be adjusted upon Reopening; so be prepared for the possibility of a short mini-semester; rescheduled class/exam period; and /or rescheduling of the semester, depending on the length of the Closure.

(b) If your situation permits, you should continue with readings and assignments to the best of your ability, per the course schedule.

(c) You will be given instructions regarding how to deal with paper assignments requiring library or other required research by me, as needed.

(d) Online office hours will be used by me in order to maintain contact with my students. You will be able to "check-in" with questions that you have. If you do not have internet access available, I will also provide my home phone number and home address, as needed. Remember, internet, mail delivery, and telephone services may also be impacted by a Pandemic or other emergency event.

(e) Finally, stay connected with information regarding the status of the College's status and Reopening schedule by monitoring the Siena website, www.siena.edu.

<?
make_footer();
?>

1.21 team.php

```
<?
/**
 * Page where user go if they click on a team name on the results.php page.
 */
session_start();
include ("includes.php");
make_header("Results");
main_menu("Search");

//Get the teamName from results.php
$teamName = $_GET['team'];

//SQL query to get all information from Client and Team tables where teamName $teamName
and that team's client ID(s) is equal to a client ID in the Client table.
$q = "SELECT * FROM Team t, Client c WHERE teamName = '$teamName' AND t.clientID
= c.clientID";

//runs the query and stores it in a variable
$results = run_query($q);

//Takes the results and uses mysql_fetch_array to make an array of the results, using
MYSQL_ASSOC to be able to use the column_names
$row = mysql_fetch_array($results, MYSQL_ASSOC);

//Print button and Back to Results button to go back to the results.php page

//Display results of $q. $row formatted as follows: $row['column_name'].
echo'
<input type="button" value="Print this page" onclick="window.print();return false;" />
&nbsp;<input type="button" value="Back to Results" onclick="window.location.href=
\'results.php\'" />
<br /><br />
<h2>'. $row['teamName'].'</h2>

<table id="table_results" border="1" cellpadding="10px">
  <tr>
    <th valign="top">';
    //If no Team Picture, don't echo <a> and <img> tags
    if($row['teamPic'] != "")
    {
```

```

        echo '<a href="'. $row['siteLink']. "'
title="'. $row['teamName']. "'>'.imageResize($row['teamPic'],400).</a><br /><br />';
    }
    echo '
    <a href="'. $row['siteLink']. "'
title="'. $row['teamName']. "'>'. $row['teamName']. '</a></p>
    <p><u>Team Acronym:</u> ' . $row['acronym']. '</p>
    <p><u>Project Name:</u> ' . $row['projectName']. '</p>
    <p><u>Project Acronym:</u> ' . $row['projectAcronym']. '</p>';
    //Checks if there are two clients. If so, runs another query fo client 2's
first and last name.
    if($row['clientID2'] != "") {
        $y = "SELECT clientFirst, clientLast FROM Client WHERE
clientID = $row[clientID2]";
        $result3 = run_query($y);
        $row3 = mysql_fetch_assoc($result3);
        echo '<p><u>Client(s):</u> ' . $row['clientFirst']. '
'. $row['clientLast']. ', ' . $row3['clientFirst']. ' . $row3['clientLast']. ' </p>';
    }
    elseif($row['clientID2'] == "") {
        echo '<p><u>Client(s):</u> ' . $row['clientFirst']. '
'. $row['clientLast']. '</p>';
    }
    echo '<p><u>Team Song</u></p>
    <a href="'. $row['song']. "' title="Team Song">'. $row['song']. '</a><br /><br />
    <p><u>Project Demo:</u> </p>
    <a href="'. $row['demo']. "' title="Project Demo">'. $row['demo']. '</a><br
/>
    </th>
    <th valign="top">
        <h3>'. $row['fallYear']. ' - ' . $row['springYear']. '</h3>

        <p>Team Members R&eacute;sum&eacute;s:</p>';
        //Another SQL query to get all the students from Student table where
teamName equals to $teamName
        $q = "SELECT resume, firstName, lastName FROM Student WHERE
teamNameFall = '$teamName' OR teamNameSpring = '$teamName'";
        $results = run_query($q);
        while($row = mysql_fetch_array($results, MYSQL_ASSOC))
        {
            echo '<a href="'. $row['resume']. "' title="'. $row['firstName']. '
'. $row['lastName']. "'>'. $row['firstName']. ' . $row['lastName']. '</a><br /><br />';
        }
    echo '</th>
    </tr>
</table>

```

```
!;  
make_footer();  
?>
```