NSG Software Development

Preliminary Design Presentation

December 5, 2005
Welcome

Ms. Jami Cotler & Dr. Scott Hunter
NSG Software Development

- Matthew Warner - Team Leader
- Kristen Dobreski - Librarian
- Justin Spegele - Webmaster
- Daniel Lomanto - Software Developer
Preliminary Design

December 5, 2005

Presented By:

Matthew Warner

Daniel Lomanto

Justin Spegele
Agenda

~ Introduction, Recap, and Functional Requirements by Matthew Warner

~ Use Cases and Development & Production Environments by Daniel Lomanto

~ DFD’s and Prototypes by Justin Spegele

~ Conclusion by Matthew Warner
Recap

~ First we found out the overall goal of this software was.

~ We had weekly meetings to determine the roles and characteristics of each person who will use the software.

~ Discussed how the Course Coordinator, Lecturers, and students would like to be able to perform their appropriate tasks.

~ Created basic prototypes of how the software will look.
Functional Requirements

- This software will serve four parties:
  - Course Coordinator
  - Lab Instructor
  - Lecture Instructor
  - Student
Course Coordinator

- Have a given username and password.
- Access to every lab that has been submitted and/or graded.
- Add/edit accounts for all types of users.
Course Coordinator Cont’d

- Upload Grading Key

- Change their password.

- Reset passwords for all accounts.

- Login with assigned username and password.
Lab Instructor

Grade labs for appropriate sections.

Change Password.

May view labs that have been submitted and/or graded.

May change any answers that were marked as incorrect.

Login with assigned username and password.
Lecture Instructor

~ View Grades.

~ The Lab Instructor will be able to make any corrections they see fit in lab grades due to multiple correct answers for questions.

~ Change Password.

~ Login with assigned username and password.
Student

- Login with assigned username and password.
- The Student may submit a lab that may be due.
- Change their password.
- Check grades.
- Submit labs.
Use Cases
Course Coordinator

- The Course Coordinator will upload the grading key for each excel lab.

- The Course Coordinator may view lab summaries of all students enrolled in a lab section.

- The Course Coordinator may add/edit new Student accounts to the system.
The Course Coordinator may also add Instructor accounts to the system.

The Course Coordinator may also change their password.
Lab Instructor

- The Lab Instructor will be given a username and password to log on to the system.
- The Lab Instructor will be responsible for grading all of the submitted labs for their appropriate sections.
- The Lab Instructor will be able to view the grade summaries of each student in their lab section.
The Lab Instructor will be able to make any corrections they see fit in lab grades due to multiple correct answers for questions.

The Lab Instructor may also change their password.
Lecture Instructor

- The Lecture Instructor will be given a username and password to log on to the system.
- The Lecture Instructor will be able to view the grades of their students either by section or all at once.
- The Lecture Instructor may also change their password.
Each Student will have a username and password so they may login to the system.

The Student may submit a lab that may be due.

The Student may change their password.

The Student may check the grades of all labs that have been graded by Lab Instructor.
Development and Production Environments

Development Environments:

- Server: Apache 2.0.46 or better
- Web Language: PHP 4.3.11 or better
- Database Language: MySQL 4.1.14 or better
Development and Production Environments

~ Production Environments:

~ Minimum 10 mb disk space

~ Mac OS X

~ Windows XP, Windows 2000

~ Redhat Enterprise Linux ES 3

~ kernel version 2.4.21-4.El
DFD
DFD Key

Data Flow

A Transformation or Transaction

Source or Sink
Prototypes
Please login below:

Username: 
Password: 

Submit  Reset

Or register a new account: Students | Lecture Instructors | Lab Instructors
## Create a new Student Account

Fill in each of the following fields.

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLS Password</td>
<td></td>
</tr>
<tr>
<td>First Name</td>
<td></td>
</tr>
<tr>
<td>Last Name</td>
<td></td>
</tr>
<tr>
<td>SID</td>
<td></td>
</tr>
<tr>
<td>E-mail</td>
<td></td>
</tr>
<tr>
<td>Birthdate</td>
<td></td>
</tr>
<tr>
<td>Middie Initial (not required)</td>
<td></td>
</tr>
<tr>
<td>Lab Section</td>
<td>Select One</td>
</tr>
<tr>
<td>Lecture Session</td>
<td>Select One</td>
</tr>
</tbody>
</table>
Welcome to XLS Grade

Account/Site News

Create a new Instructor Account

Fill in each of the following fields.

XLS Password
First Name
Last Name
ID
E-mail
Birthdate
Lecture Session

Register
XLS Grade Beta 1.0

Welcome Ms. Cotler (Course Coordinator)

Account/Site News

Choose Key Files to Upload

Lab Template: [Browse]
Grading Guide: [Browse]

Upload
Welcome to XLS Grade

My Account
- Logon
- Change Password

Tools
- Upload Grading Key
- View Grading Summaries
- Create Student Account
- Edit Student Account
- Create Instructor Account
- Edit Instructor Account
- Add/Delete Lecturer Section
- Add/Delete Lab Section

Edit Student Account

Info for John Q. Smith

First Name: John
Middle Initial (not required): Q
Last Name: Smith
SID: 901555555
E-mail: jq01smit@siena.edu
Birthdate: 01/01/1985
Lab Section: CSIS01005
Lecture Session: CSIS0105F

Save Changes
Course Coordinator - Edit Lecture

XLS Grade Beta 1.0

Welcome Ms. Cotler (Course Coordinator)

Account/Site News

Add a Lecture Section

My Account
Login
Change Password

Tools
Upload Grade Key
View Grade Summaries
Create Student Account
Edit Student Account
Create Instructor Account
Edit Instructor Account
Add/Update Lecture Section
Add/Update Lab Section

Delete Section

OR

Section:

Instructor: Jami Cotler

Add Section
Course Coordinator - Edit Lab Section

XLS Grade Beta 1.0

Welcome Ms. Cotler (Course Coordinator)

Account/Site News

Add a Lab Section

- CSIS0105F
- Delete Section

OR

- Section: 
- Instructor: Scott Hunter

Add Section
## Welcome Dr. Hunter (Lab Instructor)

Account/Site News

### View Grades

<table>
<thead>
<tr>
<th>Name</th>
<th>Lab 1</th>
<th>Lab 2</th>
<th>Lab 3</th>
<th>Lab 4</th>
<th>Lab 5</th>
<th>Midterm</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student 1</td>
<td>85%</td>
<td>88%</td>
<td>85%</td>
<td>98%</td>
<td>92%</td>
<td>88%</td>
<td>89.33%</td>
</tr>
<tr>
<td>Student 2</td>
<td>85%</td>
<td>75%</td>
<td>80%</td>
<td>82%</td>
<td>78%</td>
<td>76%</td>
<td>79.33%</td>
</tr>
<tr>
<td>Student 3</td>
<td>95%</td>
<td>98%</td>
<td>100%</td>
<td>100%</td>
<td>92%</td>
<td>96%</td>
<td>96.83%</td>
</tr>
<tr>
<td>Student 4</td>
<td>91%</td>
<td>94%</td>
<td>94%</td>
<td>98%</td>
<td>96%</td>
<td>100%</td>
<td>95.50%</td>
</tr>
<tr>
<td>Student 5</td>
<td>82%</td>
<td>87%</td>
<td>90%</td>
<td>89%</td>
<td>94%</td>
<td>89%</td>
<td>88.5%</td>
</tr>
</tbody>
</table>
Welcome Dr. Hunter (Lab Instructor)

Account/Site News

Student Search

Search by Last Name: 
Search by User Name: 
Search
Welcome Dr. Hunter (Lab Instructor)

Account/Site News

Student Search

<table>
<thead>
<tr>
<th>Name</th>
<th>Lab 1</th>
<th>Lab 2</th>
<th>Lab 3</th>
<th>Lab 4</th>
<th>Lab 5</th>
<th>Midterm</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student 1</td>
<td>85%</td>
<td>88%</td>
<td>85%</td>
<td>98%</td>
<td>92%</td>
<td>88%</td>
<td>89.33%</td>
</tr>
</tbody>
</table>

John Q. Smith  jq01smit@siena.edu
Lecture: CSIS01005  Lab: CSIS0105F
Welcome John Q. Smith (Student)

Account/Site News

Your Grades

<table>
<thead>
<tr>
<th>Name</th>
<th>Lab 1</th>
<th>Lab 2</th>
<th>Lab 3</th>
<th>Lab 4</th>
<th>Lab 5</th>
<th>Midterm</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student 1</td>
<td>85%</td>
<td>88%</td>
<td>85%</td>
<td>98%</td>
<td>92%</td>
<td>88%</td>
<td>89.33%</td>
</tr>
</tbody>
</table>
Welcome John Q. Smith (Student)

Account/Site News

Change Password

Enter your old password: 

Enter your new password: 

Confirm your new password: 

Change Password
<table>
<thead>
<tr>
<th>ID</th>
<th>Beginning State</th>
<th>After State</th>
<th>Input Value</th>
<th>Software Process</th>
<th>Comments</th>
<th>Pass/Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>User enters user-name and password.</td>
<td>User sees main page of classes that they are responsible for</td>
<td>User clicks on the Login button on the main page.</td>
<td>The Lecture Instructors username and password are sent to a database and are pulled back to see what privileges will be given.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Main Page for Lecture Instructor.</td>
<td>Views a list of student names so grades can be viewed.</td>
<td>Click on a section of class that they are teaching.</td>
<td>Viewable classes will be checked against database to make sure appropriate class sections are shown.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>List of Student names that may each be clicked on.</td>
<td>The Lecture Instructor may see all the past grades for each lab that has been submitted and graded so far.</td>
<td>A student’s name is clicked on in the list of the class.</td>
<td>A students records are pulled from the database for the Lecture Instructor.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>From Anywhere within the site, after login.</td>
<td>A page with fields giving the Lecture Instructor an option to change the password to the account to whatever they please.</td>
<td>The Lecture Instructor clicks on the hyperlink that will be available on every page that will allow them to change their password.</td>
<td>Same for every user.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Parser

### Spring 2004 Semester Grades

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td><strong>B</strong></td>
<td><strong>C</strong></td>
</tr>
<tr>
<td>1</td>
<td>Spring 2004 Semester Grades</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Number of Credits:</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td><strong>Exams:</strong></td>
<td><strong>Raw Grade</strong></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>78</td>
</tr>
<tr>
<td>9</td>
<td>Exam 1</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Exam 2</td>
<td>83</td>
</tr>
<tr>
<td>11</td>
<td>Final Exam</td>
<td>88</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td><strong>Total Points Possible</strong></td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td><strong>Projects:</strong></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td><strong>Grade</strong></td>
</tr>
<tr>
<td>16</td>
<td>Assignment #1</td>
<td>100</td>
</tr>
<tr>
<td>17</td>
<td>Assignment #2</td>
<td>85</td>
</tr>
<tr>
<td>18</td>
<td>Assignment #3</td>
<td>85</td>
</tr>
<tr>
<td>19</td>
<td>Assignment #4</td>
<td>90</td>
</tr>
<tr>
<td>20</td>
<td>Assignment #5</td>
<td>92</td>
</tr>
<tr>
<td>21</td>
<td><strong>Total Points Possible</strong></td>
<td>20%</td>
</tr>
<tr>
<td>22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td><strong>Effort/Participation:</strong></td>
<td>90</td>
</tr>
</tbody>
</table>


**NSG Software Development**
<table>
<thead>
<tr>
<th>ID</th>
<th>Task Name</th>
<th>November 2005</th>
<th>December 2005</th>
<th>January 2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NSG Software Design</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Meetings</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Team Meetings</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Client Meetings</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Project Definition Plan</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Definition Plan</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Definition Presentation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Software Requirements Specification</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Software Requirements</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Software Requirements Presentation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Preliminary Design</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Preliminary Design</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Preliminary Design Presentation</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
What’s Next?

~ Detailed Design        February 15, 2006
~ Acceptance Test        April 25, 2006
~ Academic Celebration   May 5, 2006
~ Last Class             May 2, 2006
Any Questions?

Thank You!