BAD ROBOT ENTERPRISES

INTERNATIONAL ONLINE SURVEY (IOS)

DETAILED DESIGN

Roger Bacon Science Center, Room 328
March 4th, 2008
7:00 pm
WELCOME

Dr. Darren Lim
Computer Science
Siena College

Dr. Manimoy Paul
Quantitative Business Analysis
Siena College
TEAM MEMBERS

Ryan Rose .................................................. Team Leader
rc26rose@siena.edu

Vito Urbano .................................................. Librarian
va23urba@siena.edu

Ryan May .................................................. Webmaster
r15may@siena.edu

Paul Borchers ............................................. Systems Administrator
pm15borc@siena.edu
CURRENT PROGRESS

Presented: 9/21/07

Presented: 10/26/07

Presented: 11/28/07

Tonight’s Presentation
AGENDA

- Problem Definition – Ryan Rose
- Prototypes – Ryan May
- Database Design – Paul Borchers
- Test Plan – Vito Urbano
- Timeline – Vito Urbano
- What’s Next, Important Dates, and Questions – Paul Borchers
AGENDA

- Problem Definition – Ryan Rose
- Prototypes – Ryan May
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- Test Plan – Vito Urbano
- Timeline – Vito Urbano
- What’s Next, Important Dates, and Questions – Paul Borchers
PROBLEM DEFINITION

☐ Web based survey creation application.

☐ To be able to create and distribute surveys.

☐ Administrators oversee, teachers create, students complete.

☐ Download of results to local computer.
PROGRAM’S FUNCTION

- Web Program that will use a database to store information.
  - Student and Teacher Accounts
  - Surveys

- Program will allow Teacher to download results
  - Excel file
AGENDA

☐ Problem Definition – Ryan Rose

☐ Prototypes – Ryan May

☐ Database Design – Paul Borchers

☐ Test Plan – Vito Urbano

☐ Timeline – Vito Urbano

☐ What’s Next, Important Dates, and Questions – Paul Borchers
LOGIN PAGE

E-mail address: r15may
Password: ●●●●●●●●

Forget your password?
Log In

Save my e-mail address and password
Save my e-mail address
Always ask for my e-mail address and password

Register Now
As a Teacher
Register Now
As a Student
*Please enter your secret answer and your email address. Your password will be emailed.

Question: what is your dog's name?
Secret answer:
E-mail address:
LOGIN PAGE

IOS

LOG IN NOW

E-mail address: [r15may]
Password: [●●●●●●●●●]

Register Now

As a Teacher

As a Student

Register Now

Forget your password?

Save my e-mail address and password
Save my e-mail address
Always ask for my e-mail address and password

Log In
TEACHER ACCOUNT CREATION

IOS

Create Your Account (Teacher)

Username:

Create your password

Password:

The password must contain at least six characters and be case sensitive.

Password strength:

Weak | Medium | Strong

Retype password:

Create your password reset options

Question:

Secret answer:

Five character minimum; no case sensitive

e-mail address:

Optional

Submit
TEACHER WELCOME

IOS Teacher

History
- Completed Surveys
  Name | Topic | Date   | Delete | Download
  Test Survey 1 | CS15  | 11/2/07 |        | txt
  Test Survey 2 | Math  | 11/7/07 |        | txt
  Test Survey 3 | Poly  | 11/8/07 |        | txt
  Test Survey 4 | Physics | 11/9/07 |        | txt

Active and Unpublished Surveys
- Active Surveys
  Name   | Topic | End Date | Delete | Step
  Active Survey1 | History | 11/15/07 |        |     
  Active Survey2 | Software | 11/16/07 |        |     

- Unpublished Surveys
  Name   | Topic     | Date     | Activate | Delete
  Paul Survey | Astronomy | 11/18/07 |        |     

IOS Detailed Design
Bad Robot Enterprises
TEACHER INITIAL SURVEY CREATION PAGE

IOS Create A Survey

Enter Your Survey's Topic

Enter Your Survey's Name

Make Your Questions:
- Anonymous
- Protected

Submit
TEACHER ADD A QUESTION PAGE (BLANK)
RATING SCALE

Add a Rating Scale Question

IOS

Question Text

Column Choices

Select the number of ratings below

Row Choices (each choice on separate lines)
MULTIPLE CHOICE

IOS Detailed Design
Bad Robot Enterprises
EDIT SURVEY PAGE

IOS Teacher

Add Question

Move this question

1. What is Software Engineering?
   - What is Software Engineering
   - How much does Software Engineering cost?
   - What other Software Engineering-related questions?
   - What are the different definitions of Software Engineering?

Move this question

2. How much do you like Software Engineering?
   - little
   - little more
   - neutral
   - documents
   - tests
   - presentations

Move this question

3. What do you do in Software Engineering?
   - ACM
   - IEEE
   - Fresman
   - Bauer

Move this question

4. What are 4 different definitions of Software Engineering
   - Preview
   - Save
   - Activate

IOS Detailed Design
Bad Robot Enterprises
What is Software Engineering?

- Sample Answer 1
- Sample Answer 2
- Sample Answer 3
- Sample Answer 4

Add Question
FORMAT OF RESULTS

<table>
<thead>
<tr>
<th>Gender</th>
<th>Age</th>
<th>Marital Status</th>
<th>Children</th>
<th>College Name</th>
<th>Private/Public College</th>
<th>Grad_Yr</th>
<th>Yr_since_Grad</th>
<th>Cumulative GPA</th>
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<td>4.0</td>
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</tbody>
</table>
1. What is Software Engineering?
   - sample answer
   - sample answer
   - sample answer
   - sample answer

2. How much do you like doing Software Engineering:
   - little
   - little more
   - neutral
   - love it
   - documents
   - tests
   - presentations

3. What do you do in Software Engineering?

4. What are 4 different definitions of Software Engineering?
   - ACM
   - IEEE
   - Pressman
   - Bauer
EDIT SURVEY PAGE

IOS Detailed Design
Bad Robot Enterprises
LOGIN PAGE

IOS

LOG IN NOW

E-mail address: r15may
Password: ********

Log In

SAVE my e-mail address and password
SAVE my e-mail address
Always ask for my e-mail address and password

REGISTER

As a Teacher As a Student

Register Now Register Now
STUDENT ACCOUNT CREATION

Create Your Account (Student)

Username:

Create your password

Password: (The password must contain at least six characters and is case sensitive.)
Password strength: [Weak, Medium, Strong]
Retype password:

Create your password reset options

Question: [Select One]
Secret answer: [Five character minimum, not case sensitive]
e-mail address:

Enter your account information

First name:
Last name:

Gender: [Male, Female]
Birth date: [Month, Day]
State: [Select One]
ZIP code:
Time zone: [Select One]

[Submit]
STUDENT ACCOUNT MANAGEMENT PAGE

IOS

Manage Your Account

New Username: 

Change Password
Password: 
The password must contain at least six characters and be case sensitive.
Password strength: Weak Medium Strong
Retype password:

Question:
Secret answer:

Edit Your Account Information
First name: 
Last name: 
Gender:  Male  Female
Birth date: 
State:  Select One
ZIP code: 
Time zone:  Select One

Submit

Back to Welcome Page
## Student Welcome

### IOS Detailed Design
Bad Robot Enterprises

### IOS Student

**Manage Account**

**Welcome Paul Borchers**

### History

<table>
<thead>
<tr>
<th>Name</th>
<th>Topic</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Survey 1</td>
<td>CSIS</td>
<td>11/2/07</td>
</tr>
<tr>
<td>Test Survey 2</td>
<td>Math</td>
<td>11/7/07</td>
</tr>
<tr>
<td>Test Survey 3</td>
<td>Poly</td>
<td>11/8/07</td>
</tr>
<tr>
<td>Test Survey 4</td>
<td>Physics</td>
<td>11/9/07</td>
</tr>
</tbody>
</table>

### Non-Completed Surveys

<table>
<thead>
<tr>
<th>Name</th>
<th>Topic</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Excel</td>
<td>Excel Test</td>
<td>11/19/07</td>
</tr>
<tr>
<td>Novell</td>
<td>Novell Test</td>
<td>11/20/07</td>
</tr>
</tbody>
</table>
1. What is Software Engineering?
   - sample answer
   - sample answer
   - sample answer
   - sample answer

2. How much do you like doing Software Engineering:
   - little
   - little more
   - neutral
   - love it
   - documents
   - tests
   - presentations

3. What do you do in Software Engineering?

4. What are 4 different definitions of Software Engineering
   - ACM
   - IEEE
   - Pressman
   - Bauer
ADMINISTRATOR WELCOME

IOS

Administrator

Current Stats
- Total Users: 500
- Current Users Logged In: 68
- Total Surveys Created: 1500
- Total Surveys Published: 1100

Current Users Logged In
- Name: Borchers, Paul
  - Account Type: Student
- User
  - Account Type: Student
- User2
  - Account Type: Teacher
- User3
  - Account Type: Student

Quality Control

Survey Word Alerts
- Survey name: Bob’s Survey
  - # Alerts: 15
  - Date: 11/6/07
  - Teacher: Borchers, Paul
- Bob’s Survey
  - # Alerts: 10
  - Date: 11/8/07

Surveys
- Name: Test Survey 1
  - Topic: CSIS
  - Date: 11/2/07
- Test Survey 2
  - Topic: Math
  - Date: 11/7/07
- Test Survey 3
  - Topic: Poly
  - Date: 11/8/07
- Test Survey 4
  - Topic: Physics
  - Date: 11/9/07
ADMINISTRATOR ACCOUNT MANAGEMENT PAGE

IOS

Manage Your Account

New Username: 

Change Password

Password: 
The password must contain at least six characters and is case sensitive.

Password strength: Weak | Medium | Strong

Retype password: 

Question: 

Secret answer: 

Submit

Back to Welcome Page
**ADMINISTRATOR WELCOME**

### IOS Detailed Design

#### Bad Robot Enterprises

<table>
<thead>
<tr>
<th>Name</th>
<th>Account Type</th>
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<tbody>
<tr>
<td>Borchers, Paul</td>
<td>Student</td>
</tr>
<tr>
<td>User1</td>
<td>Student</td>
</tr>
<tr>
<td>User2</td>
<td>Teacher</td>
</tr>
<tr>
<td>User3</td>
<td>Student</td>
</tr>
</tbody>
</table>

**Current Stats**
- Total Users: 500
- Current Users Logged In: 68
- Total Surveys Created: 1500
- Total Surveys Published: 1100

**Quality Control**

**Messages from Users**
- Can my account be .......... 12/5/2007

**Survey Word Alerts**

<table>
<thead>
<tr>
<th>Survey name</th>
<th># Alerts</th>
<th>Date</th>
<th>Teacher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bob's Survey</td>
<td>15</td>
<td>11/6/07</td>
<td>Barker, Bob</td>
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<tr>
<td>Paul</td>
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<td>Borchers, Paul</td>
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**Surveys**

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<th>Delete</th>
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<tbody>
<tr>
<td>Test Survey 1</td>
<td>CSIS</td>
<td>11/2/07</td>
<td></td>
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<tr>
<td>Test Survey 2</td>
<td>Math</td>
<td>11/7/07</td>
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<td>Test Survey 3</td>
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<tr>
<td>Test Survey 4</td>
<td>Physics</td>
<td>11/9/07</td>
<td></td>
</tr>
</tbody>
</table>
LIST CURRENT USERS (ADMINISTRATOR)

IOS List Current Users


Search: Students ☐ Teachers ☐ Both ☐

Search

Back to Welcome Page
**List Current Users Results Page**

**IOS**

**List Current Users**

<table>
<thead>
<tr>
<th>Name</th>
<th>Account Type</th>
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<tr>
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<tr>
<td>Arlet, Elizabeth</td>
<td>Teacher</td>
</tr>
<tr>
<td>Atkins, Gina</td>
<td>Student</td>
</tr>
</tbody>
</table>

*Back to Search*

*Back to Welcome Page*
Student Profile

Name: Wiggin, Ender  
Age: 21  
Gender: Male  
Zip Code: 12211  
State: New York  
Birth Date: March 15, 1986  
Education: under-graduate  
Major: Computer Science

Surveys Taken

Name | Topic | Date  
--- | --- | ---  
Test Survey 1 | CSIS | 11/7/07

Surveys Not Taken

Name | Topic | Date  
--- | --- | ---  
Test Survey 4 | Physics | 11/1/07

Change Password

Password: [ ]  
The password must contain at least six characters and is case sensitive.

Password strength: [ ] weak [ ] medium [ ] strong

Retype password: [ ]

Submit

Back to Welcome Page
## IOS

### Borchers, Paul

#### Teacher Profile

**Name:** Paul Borchers

#### Unpublished Surveys

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<thead>
<tr>
<th>Name</th>
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<tbody>
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<td>11/18/07</td>
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<tr>
<td>Monitors</td>
<td>Flat/CRT</td>
<td>11/19/07</td>
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#### Active Surveys

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<td>Catholism</td>
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#### Completed Surveys

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<tr>
<td>NetMeeting</td>
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[Back to Welcome Page]
### Results for Alfred

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<tr>
<td>Arker, Elizabeth</td>
<td>Teacher</td>
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<tr>
<td>Atkins, Gina</td>
<td>Student</td>
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</table>

[Back to Welcome Page]
AGENDA

- Problem Definition – Ryan Rose
- Prototypes – Ryan May
- Database Design – Paul Borchers
- Test Plan – Vito Urbano
- Timeline – Vito Urbano
- What’s Next, Important Dates, and Questions – Paul Borchers
Entity-Relationship Diagram
Entity-Relationship Diagram
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<th>column name</th>
<th>type</th>
<th>Comments</th>
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<td>int</td>
<td>Primary Key - Odd number.</td>
</tr>
<tr>
<td>username</td>
<td>nvarchar(16)</td>
<td>User specified username.</td>
</tr>
<tr>
<td>password</td>
<td>nvarchar(16)</td>
<td>user specified password</td>
</tr>
<tr>
<td>email</td>
<td>nvarchar(32)</td>
<td><a href="mailto:pm15borc@siena.edu">pm15borc@siena.edu</a></td>
</tr>
<tr>
<td>user_type</td>
<td>int</td>
<td>User type: 10 = student, 20 = teacher, 30 = admin</td>
</tr>
<tr>
<td>secret_quetion</td>
<td>ntext</td>
<td>Question used to reset password if the user has lost their password.</td>
</tr>
<tr>
<td>secret_answer</td>
<td>ntext</td>
<td>Answer needed to reset password in Forgot Password page.</td>
</tr>
<tr>
<td>firstname</td>
<td>nvarchar(16)</td>
<td>User supplied first name.</td>
</tr>
<tr>
<td>lastname</td>
<td>nvarchar(16)</td>
<td>User supplied last name.</td>
</tr>
<tr>
<td>gender</td>
<td>nvarchar(16)</td>
<td>User supplied gender.</td>
</tr>
<tr>
<td>birthdate</td>
<td>smalldate</td>
<td>Birthdate in format MM/DD/YYYY</td>
</tr>
<tr>
<td>state</td>
<td>nvarchar(16)</td>
<td>User supplied state or province of residence.</td>
</tr>
<tr>
<td>zip</td>
<td>int</td>
<td>User supplied zip or postal code of residence.</td>
</tr>
<tr>
<td>time_zone</td>
<td>nvarchar(32)</td>
<td>User supplied time zone.</td>
</tr>
<tr>
<td>logged_in</td>
<td>boolean</td>
<td>Keeps track of if user is logged in. true = logged in, false = offline</td>
</tr>
</tbody>
</table>
Entity-Relationship Diagram
<table>
<thead>
<tr>
<th>column_name</th>
<th>type</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>survey_id</td>
<td>int</td>
<td>Primary Key</td>
</tr>
<tr>
<td>userid</td>
<td>int</td>
<td>Gotten from permanent_users table, teachers only.</td>
</tr>
<tr>
<td>survey_name</td>
<td>nvarchar(32)</td>
<td>Teacher inputted survey name.</td>
</tr>
<tr>
<td>survey_topic</td>
<td>nvarchar(32)</td>
<td>Teacher inputted survey topic.</td>
</tr>
<tr>
<td>survey_date</td>
<td>smalldate</td>
<td>Date of survey creation in format: MM/DD/YYYY</td>
</tr>
<tr>
<td>survey_type</td>
<td>int</td>
<td>Teacher selected survey type. 10 = protected, 20 = anonymous</td>
</tr>
<tr>
<td>survey_level</td>
<td>int</td>
<td>10 = unpublished, 20 = active, 30 = completed</td>
</tr>
</tbody>
</table>
Entity-Relationship Diagram
<table>
<thead>
<tr>
<th>questions</th>
<th>column name</th>
<th>type</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>survey_id</td>
<td>int</td>
<td>Taken from surveys table.</td>
</tr>
<tr>
<td></td>
<td>question_id</td>
<td>int</td>
<td>Primary Key</td>
</tr>
<tr>
<td></td>
<td>question_type</td>
<td>int</td>
<td>There are five types of questions and they each have a numerical representation in the database. 10 = demographics, 20 = scale, 30 = multiple choice, 40 = textbox, 50 = image</td>
</tr>
</tbody>
</table>
Entity-Relationship Diagram
<table>
<thead>
<tr>
<th>column name</th>
<th>type</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>question_id</td>
<td>int</td>
<td>Taken from question table.</td>
</tr>
<tr>
<td>question_text</td>
<td>ntext</td>
<td>Teacher inputted question text.</td>
</tr>
<tr>
<td>question_num</td>
<td>int</td>
<td>Position to display in survey.</td>
</tr>
</tbody>
</table>
Entity-Relationship Diagram
<table>
<thead>
<tr>
<th>column name</th>
<th>type</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>userid</td>
<td>int</td>
<td>Taken from anonymous and permanent tables, only students.</td>
</tr>
<tr>
<td>question_id</td>
<td>int</td>
<td>Taken from questions table.</td>
</tr>
<tr>
<td>answer</td>
<td>ntext</td>
<td>User inputted answer.</td>
</tr>
</tbody>
</table>
Entity-Relationship Diagram
<table>
<thead>
<tr>
<th>column name</th>
<th>type</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>survey_id</td>
<td>int</td>
<td>Taken from surveys table.</td>
</tr>
<tr>
<td>userid</td>
<td>int</td>
<td>Gotten from permanent_users table and anonymous, students only.</td>
</tr>
<tr>
<td>survey_name</td>
<td>nvarchar(32)</td>
<td>Teacher inputted survey name.</td>
</tr>
<tr>
<td>survey_topic</td>
<td>nvarchar(32)</td>
<td>Teacher inputted survey topic.</td>
</tr>
<tr>
<td>survey_date</td>
<td>smalldate</td>
<td>Date of survey creation in format: MM/DD/YYYY</td>
</tr>
<tr>
<td>survey_type</td>
<td>int</td>
<td>Teacher selected survey type. 10 = protected, 20 = anonymous</td>
</tr>
<tr>
<td>survey_level</td>
<td>int</td>
<td>10 = unpublished, 20 = active, 30 = completed</td>
</tr>
<tr>
<td>status</td>
<td>boolean</td>
<td>Keeps track of whether the survey has been taken. Set to true for anonymous users.  false = not taken, true = taken</td>
</tr>
<tr>
<td>date_taken</td>
<td>smalldate</td>
<td>Date the survey was taken in format. MM/DD/YYYY</td>
</tr>
</tbody>
</table>
AGENDA

- Problem Definition – Ryan Rose
- Prototypes – Ryan May
- Database Design – Paul Borchers
- Test Plan – Vito Urbano
- Timeline – Vito Urbano
- What’s Next, Important Dates, and Questions – Paul Borchers
TESTING OBJECTIVES

☐ The software must meet all functional requirements.
☐ Good testing will uncover errors.
☐ Many phases of testing.
SYSTEM TESTING

- Validating the specified functional requirements.
- Crucial part of the test plan.
- Helps us determine if all requirements were met.
UNIT TESTING

- Test each program unit individually.
- Each unit must be free of errors.
- Each webpage is a separate unit.
- Each unit has test cases within them.
# UNIT TESTING EXAMPLE

## Test Number 1 - Log in Page

<table>
<thead>
<tr>
<th>Number</th>
<th>Test Case Name</th>
<th>Description</th>
<th>Input</th>
<th>Expected Result</th>
<th>Actual Result</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Log in page loads</td>
<td>Correct page loads</td>
<td>N/A</td>
<td>Log in page loads and all components are displayed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2</td>
<td>Correct Login - Administrator</td>
<td>Log in with valid administrator account and password</td>
<td>Administrator username and password</td>
<td>Administrator Welcome page opens</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.3</td>
<td>Correct Login - Teacher</td>
<td>Log in with valid teacher account and password</td>
<td>Teacher username and password</td>
<td>Teacher Welcome page opens</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.4</td>
<td>Correct Login - Student</td>
<td>Log in with valid student account and password</td>
<td>Student username and password</td>
<td>Student Welcome page opens</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5</td>
<td>Incorrect Username Login</td>
<td>Log in with invalid username</td>
<td>Username</td>
<td>Error message stating that the username is incorrect is displayed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.6</td>
<td>Incorrect Password Login</td>
<td>Log in with invalid password</td>
<td>Password</td>
<td>Error message stating that the password is incorrect is displayed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.7</td>
<td>Log in with empty fields</td>
<td>Log in with username and password fields empty</td>
<td>N/A</td>
<td>Error message stating that the fields are empty is displayed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.8</td>
<td>Select Save My E-Mail Address &amp; Password</td>
<td>Selects Save My E-Mail Address &amp; Password bubble</td>
<td>Save My E-Mail Address &amp; Password</td>
<td>E-mail address of user appears every time this page is accessed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.9</td>
<td>Select Save My E-Mail Address</td>
<td>Selects Save My E-Mail Address bubble</td>
<td>Save My E-Mail Address</td>
<td>E-mail address of user appears every time this page is accessed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.10</td>
<td>Select Always Ask For My E-Mail Address &amp; Password</td>
<td>Selects Save My E-Mail Address &amp; Password bubble</td>
<td>Always ask</td>
<td>E-mail address of user never appears when this page is accessed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.11</td>
<td>Click Register Now - Teacher</td>
<td>User clicks the Teacher Register Now button</td>
<td>Teacher</td>
<td>The Teacher Account Creation page opens</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.12</td>
<td>Click Register Now - Student</td>
<td>User clicks the Student Register Now button</td>
<td>Student</td>
<td>The Student Account Creation page opens</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Summary of Tests for this Unit**
INTEGRATION TESTING

☐ Separate units become a whole.
☐ Functionality and interaction of integrated units.
☐ Errors at this stage lead to regression testing.
☐ System stops working normally.
☐ System stops completely.
☐ Find regression bugs causing errors.
# INTEGRATION TESTING TABLE

<table>
<thead>
<tr>
<th>Unit Number</th>
<th>Linked Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2, 3, 4, 5, 6</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>7, 8, 9, 10, 11, 12, 18</td>
</tr>
<tr>
<td>5</td>
<td>7, 13, 14, 15, 18</td>
</tr>
<tr>
<td>6</td>
<td>16, 17, 18</td>
</tr>
<tr>
<td>7</td>
<td>4, 5</td>
</tr>
<tr>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>9</td>
<td>4</td>
</tr>
<tr>
<td>10</td>
<td>4</td>
</tr>
<tr>
<td>11</td>
<td>4</td>
</tr>
<tr>
<td>12</td>
<td>4</td>
</tr>
<tr>
<td>13</td>
<td>5, 18</td>
</tr>
<tr>
<td>14</td>
<td>5, 18</td>
</tr>
<tr>
<td>15</td>
<td>5, 18</td>
</tr>
<tr>
<td>16</td>
<td>6</td>
</tr>
<tr>
<td>17</td>
<td>6, 18</td>
</tr>
<tr>
<td>18</td>
<td>4, 5, 6, 13, 14, 15, 17</td>
</tr>
</tbody>
</table>
TESTING SUMMARY

☐ Testing Manager ensures thorough testing.
☐ Attempting to meet clients pass/fail criteria.
☐ Tests, errors, resolutions delivered at acceptance test.
AGENDA

- Problem Definition – Ryan Rose
- Prototypes – Ryan May
- Database Design – Paul Borchers
- Test Plan – Vito Urbano
- Timeline – Vito Urbano
- What’s Next, Important Dates, and Questions – Paul Borchers
WATERFALL MODEL

Software Plan

Requirements Specification

Preliminary Design

Detailed Design

Acceptance Test

COMPLETED

COMPLETED

COMPLETED

COMPLETED

4/28/08

IOS Detailed Design
Bad Robot Enterprises
# Development Timeline

<table>
<thead>
<tr>
<th>ID</th>
<th>Task Name</th>
<th>Duration</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bad Robot Enterprises</td>
<td></td>
<td>1/13</td>
<td>1/20</td>
<td>2/3</td>
<td>2/10</td>
<td>2/17</td>
</tr>
<tr>
<td>2</td>
<td>Team Meetings</td>
<td>27 days</td>
<td>1/27</td>
<td>2/10</td>
<td>2/17</td>
<td>2/24</td>
<td>3/2</td>
</tr>
<tr>
<td>15</td>
<td>Client Meetings</td>
<td>25 days</td>
<td>2/3</td>
<td>2/10</td>
<td>2/17</td>
<td>2/24</td>
<td>3/2</td>
</tr>
<tr>
<td>22</td>
<td>Detailed Design</td>
<td>31 days</td>
<td>2/10</td>
<td>2/17</td>
<td>3/2</td>
<td>3/9</td>
<td>3/16</td>
</tr>
</tbody>
</table>

**Bad Robot Enterprises**

Project: Giant Second Semester
Date: Sun 3/2/08

---

**Software Engineering II Spring '08 Timeline**

IOS Detailed Design
Bad Robot Enterprises
AGENDA

- Problem Definition – Ryan Rose
- Prototypes – Ryan May
- Database Design – Paul Borchers
- Test Plan – Vito Urbano
- Timeline – Vito Urbano
- What’s Next, Important Dates, and Questions – Paul Borchers
SUMMARY - QUESTIONS?

☐ Problem Definition

☐ Data Flow Diagrams & Structure Diagram

☐ Data Identification

☐ Prototypes

☐ Test Plan

☐ What’s Next, Summary, and Questions
IMPORTANT DATES

☐ End of Semester Party
  ■ Monday, May 5\textsuperscript{th} at 8:00pm
  ■ Boland Room
  ☐ Ben Kuhn House (Alumni House)
  ■ Our Project will be presented.
  ■ A Team Song will be presented.
IMPORTANT DATES

☐ Acceptance Test Due
  ▼ Monday, April 28th

☐ Acceptance Presentation
  ▼ Tuesday, April 29th
  ☐ 1 hour presentation from 6-9 pm
ANY QUESTIONS?