WELCOME

Dr. Darren Lim
Computer Science
Siena College

Dr. Manimoy Paul
Quantitative Business Analysis
Siena College

IOS Preliminary Design
Bad Robot Enterprises
TEAM MEMBERS

Paul Borchers…………………………..Team Leader
pm15borc@siena.edu

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

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

Ryan Rose………………………………Systems Administrator
rc26rose@siena.edu
CURRENT PROGRESS

Presented: 9/21/07

Presented: 10/26/07

Today’s Presentation
AGENDA

- Problem Definition – Paul Borchers
- Data Flow Diagrams & Structure Diagram – Ryan Rose
- Logical Data Stores – Vito Urbano
- Prototypes – Ryan May
- Test Plan – Vito Urbano
- What’s Next, Summary, and Questions – Paul Borchers
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PROBLEM DEFINITION

- Web based survey creation application.
- To be able to create and distribute surveys.
- Two types of surveys: anonymous and protected.
- Administrators oversee, teachers create, students take.
- Download of results to local computer.
AGENDA

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DATA IDENTIFICATION

- Preliminary description of the data stored in the International Online Survey database.
- The data is presented in a layout of a table structure.
- Primary Keys are underlined.
DATA IDENTIFICATION

- Table: Survey
  - Fields:
    - ID: NUMBER
      - Survey's identification number
    - Name: VARCHAR(50)
      - Survey's name
    - Password: VARCHAR(12)
      - Survey's password if protected
    - Qtype: VARCHAR(20)
      - Survey question type
DATA IDENTIFICATION

Answer: VARCHAR(50)
-Answer to survey question

Stype: VARCHAR(15)
-Type of survey

Sdate: VARCHAR(8)
-Survey date

Slocation: VARCHAR(20)
-Location of survey

User_type: VARCHAR(15)
-The type of user
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LOGIN PAGE

LOG IN NOW

E-mail address: r15moy
Password: ************
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

REGISTER

Register Now

As a Teacher
As a Student

IOS Preliminary Design
Bad Robot Enterprises
ADMINISTRATOR WELCOME

IOS Preliminary Design
Bad Robot Enterprises
LIST CURRENT USERS
(ADMINISTRATOR)

IOS List Current Users


-OR-

Search: Students, Teachers, Both

Search
# List Current Users Results Page

## IOS List Current Users

<table>
<thead>
<tr>
<th>Name</th>
<th>Account Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alfrey, Tom</td>
<td>Student</td>
</tr>
<tr>
<td>Arket, Elizabeth</td>
<td>Teacher</td>
</tr>
<tr>
<td>Atkins, Gina</td>
<td>Student</td>
</tr>
</tbody>
</table>
**Teacher Profile**

**Name:** Paul Borchers

**Active Surveys**

<table>
<thead>
<tr>
<th>Name</th>
<th>Topic</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Now</td>
<td>Catholism</td>
<td>11/18/07</td>
</tr>
<tr>
<td>Phone</td>
<td>Contacts</td>
<td>11/19/07</td>
</tr>
</tbody>
</table>

**Published Surveys**

<table>
<thead>
<tr>
<th>Name</th>
<th>Topic</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soda</td>
<td>Types</td>
<td>11/18/07</td>
</tr>
<tr>
<td>NetMeeting</td>
<td>Remote</td>
<td>11/19/07</td>
</tr>
</tbody>
</table>

**Unpublished Surveys**

<table>
<thead>
<tr>
<th>Name</th>
<th>Topic</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chairs</td>
<td>Siena Hall</td>
<td>11/18/07</td>
</tr>
<tr>
<td>Monitors</td>
<td>Flat/CRT</td>
<td>11/19/07</td>
</tr>
</tbody>
</table>
**Teacher Welcome**

**IOS Preliminary Design**

Bad Robot Enterprises
TEACHER ACCOUNT CREATION

IOS

Create Your Account (Teacher)

Username:

Create your password

Password: [Enter password here]

Password strength: [Weak, Medium, Strong]

Retype password:

Create your password reset options

Question: [Select one]

Secret answer: [Enter five character minimum, not case sensitive]

Alternate e-mail address: [Optional]

Submit
IOS Preliminary Design
Bad Robot Enterprises
### IOS Student Welcome

**Management Account**

**Welcome to BRe Student**

#### 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>
</tr>
</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>

---

IOS Preliminary Design  
Bad Robot Enterprises
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:  Month  Day

State:  Select One

ZIP code:  Select One

I own or work with a small business
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 EDIT SURVEY PAGE (BLANK)
TEACHER ADD A QUESTION PAGE (BLANK)

IOS Preliminary Design
Bad Robot Enterprises
DEMOLGAPHIC

IOS Add A Demographic Question

Contact Information
- Name: Ryan May
- Company: Area 51
- Address 1: Classified
- Address 2: Classified
- City/Town: Classified
- State/Province: Classified
- ZIP/Postal Code: Classified
- Country: United States

Submit
RATING SCALE

Add a Rating Scale Question

- Choose Question Type --
  - Multiple Choice (Only One Answer)
  - Rating Scale
  - Single Textbox
  - Demographic Information
  - Image

Question Text

Column Choices
Select the number of ratings below:

4: v

Label: Weight: 1
Label: Weight: 2
Label: Weight: 3
Label: Weight: 4

Row Choices (each choice on separate lines)

Submit
MULTIPLE CHOICE

Add A Multiple Choice Question

Choose Question Type:
- Multiple Choice (Only One Answer)
- Rating Scale
- Single Textbox
- Demographic Information
- Image

Answer Choices (each choice on separate lines)

Question Text

Submit
Add A Single Textbox Question

- Choose Question Type --
  - Multiple Choice (Only One Answer)
  - Rating Scale
  - Simple Textbox
  - Demographic information
  - Image

Question Text

Submit
EDIT SURVEY PAGE

IOS Preliminary Design
Bad Robot Enterprises
## IOS Preliminary Design

**Bad Robot Enterprises**

### 1. What is Software Engineering?
- Sample answer
- Sample answer
- Sample answer
- Sample answer
- Sample answer

### 2. How much do you like doing Software Engineering?

<table>
<thead>
<tr>
<th>Activity</th>
<th>little</th>
<th>little more</th>
<th>neutral</th>
<th>love it</th>
</tr>
</thead>
<tbody>
<tr>
<td>Documents</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tests</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Presentations</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 3. What do you do in Software Engineering?

- [ ]

### 4. What are 4 different definitions of Software Engineering?

- ACM
- IEEE
- Pressman
- Bauer
*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: ____________________________
<table>
<thead>
<tr>
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<th>Account Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alfred, Tom</td>
<td>Student</td>
</tr>
<tr>
<td>Arker, Elizabeth</td>
<td>Teacher</td>
</tr>
<tr>
<td>Atkins, Gina</td>
<td>Student</td>
</tr>
</tbody>
</table>
FORMAT OF RESULTS DOWNLOAD

1) What is software engineering?

- Sample answer 1
- Sample answer 2
- Sample answer 3
- Sample answer 4

User 1: Sample answer 2
User 2: Sample answer 1
User 3: Sample answer 4

2) How much do you like doing software engineering:

- Documents
  User 1: Neutral
  User 2: Love it
  User 3: Little

- Tests
  User 1: Little
  User 2: Little
  User 3: Little

- Presentations
  User 1: Neutral
  User 2: Little
  User 3: Neutral

3) What are 4 different definitions of software engineering?

- ACM
  User 1: ACM sample definition 1
  User 2: ACM sample definition 2
  User 3: ACM sample definition 3

- IEEE
  User 1: IEEE sample definition 1
  User 2: IEEE sample definition 2
  User 3: IEEE sample definition 3

- Pressman
  User 1: Pressman sample definition 1
  User 2: Pressman sample definition 2
  User 3: Pressman sample definition 3

- Bauer
  User 1: Bauer sample definition 1
  User 2: Bauer sample definition 2
  User 3: Bauer sample definition 3
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## UNIT TEST CATALOG

<table>
<thead>
<tr>
<th>Test Result</th>
<th>Test Number</th>
<th>Unit Test Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>P F</td>
<td>1</td>
<td>Login Page</td>
</tr>
<tr>
<td>P F</td>
<td>2</td>
<td>Teacher Account Creation Page</td>
</tr>
<tr>
<td>P F</td>
<td>3</td>
<td>Student Account Creation Page</td>
</tr>
<tr>
<td>P F</td>
<td>4</td>
<td>Administrator Welcome Page</td>
</tr>
<tr>
<td>P F</td>
<td>5</td>
<td>Teacher Welcome Page</td>
</tr>
<tr>
<td>P F</td>
<td>6</td>
<td>Student Welcome Page</td>
</tr>
<tr>
<td>P F</td>
<td>7</td>
<td>Administrator/Teacher Account Management Page</td>
</tr>
<tr>
<td>P F</td>
<td>8</td>
<td>Administrator Account Creation Page</td>
</tr>
<tr>
<td>P F</td>
<td>9</td>
<td>User Page (Teacher)</td>
</tr>
<tr>
<td>P F</td>
<td>10</td>
<td>User Page (Student)</td>
</tr>
<tr>
<td>P F</td>
<td>11</td>
<td>List Current Users Page (Administrator)</td>
</tr>
<tr>
<td>P F</td>
<td>12</td>
<td>List Current Users Results Page (Administrator)</td>
</tr>
<tr>
<td>P F</td>
<td>13</td>
<td>Teacher Initial Survey Creation Page</td>
</tr>
<tr>
<td>P F</td>
<td>14</td>
<td>Teacher Survey Creation Page</td>
</tr>
<tr>
<td>P F</td>
<td>15</td>
<td>Teacher Edit Survey Page</td>
</tr>
<tr>
<td>P F</td>
<td>16</td>
<td>Student Account Management Page</td>
</tr>
<tr>
<td>P F</td>
<td>17</td>
<td>Student Survey Page</td>
</tr>
<tr>
<td>P F</td>
<td>18</td>
<td>Search Results Page</td>
</tr>
<tr>
<td>Number</td>
<td>Test Case Name</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>----------------------------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>3.1</td>
<td>Student Account Creation page loads</td>
<td>Correct page loads</td>
</tr>
<tr>
<td>3.2</td>
<td>Enter accepted username</td>
<td>Student enters a username that is accepted</td>
</tr>
<tr>
<td>3.3</td>
<td>Enter unaccepted username</td>
<td>Student enters a username that is taken or inappropriate</td>
</tr>
<tr>
<td>3.4</td>
<td>Enter accepted password</td>
<td>Student enters a password that is accepted</td>
</tr>
<tr>
<td>3.5</td>
<td>Enter unaccepted password</td>
<td>Student enters a password that is unaccepted</td>
</tr>
<tr>
<td>3.6</td>
<td>Retype password correctly</td>
<td>Student retypes password correctly</td>
</tr>
<tr>
<td>3.7</td>
<td>Retype password incorrectly</td>
<td>Student retypes password incorrectly</td>
</tr>
<tr>
<td>3.8</td>
<td>Password strength</td>
<td>After user types in password, the strength of that password is displayed</td>
</tr>
<tr>
<td>3.9</td>
<td>Select secret question</td>
<td>Student selects a secret question to answer if they want to change password</td>
</tr>
<tr>
<td>3.10</td>
<td>Enter secret question answer</td>
<td>Student enters an answer to the secret question selected prior</td>
</tr>
<tr>
<td>3.11</td>
<td>Alternate e-mail address</td>
<td>Student enters an optional alternate e-mail address</td>
</tr>
<tr>
<td>3.12</td>
<td>Enter first name</td>
<td>Student enters their first name</td>
</tr>
<tr>
<td>3.13</td>
<td>Enter last name</td>
<td>Student enters their last name</td>
</tr>
<tr>
<td>3.14</td>
<td>Select gender</td>
<td>Student fills bubble for male or female</td>
</tr>
<tr>
<td>3.15</td>
<td>Enter birth date</td>
<td>Student enters their birth date by selecting month and day and typing in year</td>
</tr>
<tr>
<td>3.16</td>
<td>Select state</td>
<td>Student selects their state from the pull down menu</td>
</tr>
<tr>
<td>3.17</td>
<td>Enter zip code</td>
<td>Student enters their zip code</td>
</tr>
<tr>
<td>3.18</td>
<td>Select time zone</td>
<td>Student selects their time zone from the pull down menu</td>
</tr>
<tr>
<td>3.19</td>
<td>Small business checkbox</td>
<td>Student either checks or unchecks 'I work for a small business'</td>
</tr>
<tr>
<td>3.20</td>
<td>Click the submit button</td>
<td>Student clicks the submit button</td>
</tr>
</tbody>
</table>

**Summary of tests for this unit:**

**IOS Preliminary Design**

**Bad Robot Enterprises**
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- Problem Definition – Paul Borchers
- Data Flow Diagrams & Structure Diagram – Ryan Rose
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- What’s Next, Summary, and Questions – Paul Borchers
WATERFALL MODEL

Software Plan

Requirements Specification

Preliminary Design

Detailed Design

Acceptance Test

COMPLETED

February 20th, 2008
# DEVELOPMENT TIMELINE

## Bad Robot Enterprises

<table>
<thead>
<tr>
<th>ID</th>
<th>Task Name</th>
<th>September</th>
<th>October</th>
<th>November</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bad Robot Enterprises</td>
<td>9/2</td>
<td>9/9</td>
<td>9/15</td>
<td>9/28</td>
</tr>
<tr>
<td>2</td>
<td>Meetings</td>
<td>9/23</td>
<td>10/7</td>
<td>10/21</td>
<td>10/28</td>
</tr>
<tr>
<td>20</td>
<td>Client Meeting</td>
<td>9/30</td>
<td>11/4</td>
<td>11/18</td>
<td>11/25</td>
</tr>
<tr>
<td>38</td>
<td>Software Plan</td>
<td>10/7</td>
<td>11/14</td>
<td>11/28</td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>✔ Software Plan Documents</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>✔ Software Plan Presentation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>Requirement Specification</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>✔ Requirement Specification Documents</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>✔ Requirement Specification Presentation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>Preliminary Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>✔ Preliminary Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>46</td>
<td>Preliminary Design Presentation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **9/21**: Paul, Ryan M., and Ryan R.
- **10/21**: Paul, Ryan R., Ryan M., Vito
- **11/28**: Paul, Ryan R., Ryan M., Vito

---

**Project Timeline**

- **Date**: Wed 11/28/07

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**Task Progress**

- Milestone
- Summary
- Deadline
SUMMARY - QUESTIONS?

- Problem Definition
- Data Flow Diagrams & Structure Diagram
- Data Identification
- Prototypes
- Test Plan
- What’s Next, Summary, and Questions