BAD ROBOT ENTERPRISES

INTERNATIONAL ONLINE SURVEY

(iOS)

ACCEPTANCE TEST

Roger Bacon Science Center, Room 328
April 29th, 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/Tester
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
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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
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Entity-Relationship Diagram
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>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_quesion</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>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>question_id</td>
<td>int</td>
<td>Primary Key</td>
</tr>
<tr>
<td>question_type</td>
<td>int</td>
<td>There are five types of questions and they each have a numerical</td>
</tr>
<tr>
<td></td>
<td></td>
<td>representation in the database. 10 = demographics, 20 = scale, 30 =</td>
</tr>
<tr>
<td></td>
<td></td>
<td>multiple choice, 40 = textbox, 50 = image</td>
</tr>
</tbody>
</table>
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<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>
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<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>
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<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>
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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.
- Most of our focus and time.
SYSTEM TEST EXAMPLE

Login Screen:

The Administrator will log in with correct username and password.

(x) YES  NO

An incorrect login will provide an appropriate error message.

(x) YES  NO
EXAMPLE SCREENSHOT
SYSTEM TEST EXAMPLE

Search Results Screen:

The user will view search results alphabetically.**
   YES           NO

The user will be able see account names and account types or survey names.**
   YES           NO

The user will be able to click on the accounts or surveys to view information about them.**
   YES           NO

**In production
# EXAMPLE SCREENSHOT

## HISTORY

<table>
<thead>
<tr>
<th>Name</th>
<th>Topic</th>
<th>Date</th>
<th>Delete</th>
<th>Download</th>
</tr>
</thead>
</table>

## ACTIVE AND UNPUBLISHED SURVEYS

### ACTIVE SURVEYS

<table>
<thead>
<tr>
<th>Name</th>
<th>Topic</th>
<th>Date</th>
<th>Delete</th>
<th>Stop</th>
</tr>
</thead>
</table>

### UN-PUBLISHED SURVEYS

<table>
<thead>
<tr>
<th>Name</th>
<th>Topic</th>
<th>Date</th>
<th>Activate</th>
<th>Delete</th>
</tr>
</thead>
</table>
MISSING FEATURES

☐ Administrator created/edited accounts
☐ Administrator quality control function
☐ Administrator list current users function
☐ Teacher edit survey function
☐ Search function
NON-FUNCTIONAL REQ.

☐ The system should be quick and smooth.

PASS

☐ The system should be aesthetically pleasing.

PASS
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WATERFALL MODEL

Software Plan

Requirements Specification

Preliminary Design

Detailed Design

Acceptance Test

IOS Acceptance Test
Bad Robot Enterprises
### DEVELOPMENT TIMELINE

<table>
<thead>
<tr>
<th>ID</th>
<th>Task Name</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bad Robot Enterprises</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Team Meetings</td>
<td>27 days</td>
</tr>
<tr>
<td>15</td>
<td>Client Meetings</td>
<td>26 days</td>
</tr>
<tr>
<td>22</td>
<td>Detailed Design</td>
<td>31 days</td>
</tr>
<tr>
<td>23</td>
<td>Detailed Design Document</td>
<td>30 days</td>
</tr>
<tr>
<td>24</td>
<td>Detailed Design Presentation</td>
<td>1 day</td>
</tr>
<tr>
<td>25</td>
<td>Acceptance Test</td>
<td>40 days</td>
</tr>
<tr>
<td>26</td>
<td>Acceptance Test Document</td>
<td>90 days</td>
</tr>
<tr>
<td>27</td>
<td>Acceptance Test Presentation</td>
<td>1 day</td>
</tr>
</tbody>
</table>

**Bad Robot Enterprises**
*Project Grant Second Semester*
*Date: Sun 3/2/08*

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**Software Engineering II Spring '08 Timeline**

**IOS Acceptance Test**
Bad Robot Enterprises
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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 5th 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?