Detailed Design Presentation

February 21, 2006
Welcome

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

Justin Spegele - Team Leader & Webmaster
Kristen Dobreski - Librarian
Matthew Warner - Lead Programmer & System Administrator
Daniel Lomanto - Development Manager
Detailed Design
February 21, 2006

Presented By:
- Justin Spegele
- Matthew Warner
- Kristen Dobreski
Agenda

- Prototypes - Justin Spegele
- Database - Matthew Warner
- Testing Plan - Kristen Dobreski
Prototypes
Student Registration Page

XLS Grade Beta 1.2

Welcome to XLS Grade

Fill in each of the following fields.

- XLS Password (What's that?)
- First Name
- Last Name
- SID
- E-mail
- Lab Section
- Lecture Session

©2005 NSG Software
Date last Modified: Wed Feb 15 2006 21:52:54
XLS Grade Beta 1.2

About XLS Grade

Welcome to XLS Grade

Fill in each of the following fields.

- XLS Password
- First Name
- Last Name
- ID
- E-mail
- Lecture Section

Register

©2005 NSG Software

Date last Modified: Thu. Feb 16 2006 13:06:26
Course Coordinator - View Grade Summaries
Lab Instructor - View Grade Summaries

XLS Grade Beta 1.2

My Account
- Logout
- Change Password

Tools
- View Grading Summaries
- View Grades
- Find a Student

Dr. Hunter (Lab Instructor)

Select Summary Type

By Last Name: [Enter] Go
By Section: [Select One] Go

©2006 NSG Software
Date last Modified: Wed Feb 15 2006 21:07:56
Database
## Assignments Table

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Type</th>
<th>Nulls</th>
<th>Column Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>AssignId</td>
<td>Text</td>
<td>NO</td>
<td>Each assignment receives an ID to distinguish between them.</td>
</tr>
<tr>
<td>SubTime</td>
<td>Number</td>
<td>YES</td>
<td>The time and date the assignment was submitted.</td>
</tr>
<tr>
<td>CourseId</td>
<td>Number</td>
<td>YES</td>
<td>Unique ID assigned to each lab section.</td>
</tr>
<tr>
<td>SubName</td>
<td>Text</td>
<td>YES</td>
<td>Name of the submitted assignment</td>
</tr>
</tbody>
</table>
## Sections Table

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Type</th>
<th>Nulls</th>
<th>Column Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>CourseID</td>
<td>Text</td>
<td>NO</td>
<td>Unique ID assigned to each lab section.</td>
</tr>
<tr>
<td>CourseName</td>
<td>Text</td>
<td>Yes</td>
<td>Section number assigned to the course.</td>
</tr>
</tbody>
</table>
# Lab Files Table

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Type</th>
<th>Nulls</th>
<th>Column Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>UserName</td>
<td>Text</td>
<td>YES</td>
<td>Unique name given to each user login.</td>
</tr>
<tr>
<td>SubTime</td>
<td>Number</td>
<td>YES</td>
<td>The time and date the assignment was submitted.</td>
</tr>
<tr>
<td>AssignID</td>
<td>Number</td>
<td>YES</td>
<td>Each assignment receives an ID to distinguish between them.</td>
</tr>
<tr>
<td>SubName</td>
<td>Text</td>
<td>NO</td>
<td>Name of the submitted assignment.</td>
</tr>
</tbody>
</table>
## Results Table

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Type</th>
<th>Nulls</th>
<th>Column Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>AssignID</td>
<td>Text</td>
<td>NO</td>
<td>Each assignment receives an ID to distinguish between them.</td>
</tr>
<tr>
<td>MostWrong</td>
<td>Number</td>
<td>YES</td>
<td>Tells which question were marked wrong the most frequently.</td>
</tr>
<tr>
<td>AvgScore</td>
<td>Number</td>
<td>YES</td>
<td>Average score of the files that were submitted and graded.</td>
</tr>
</tbody>
</table>
# Account Table

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Type</th>
<th>Nulls</th>
<th>Column Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>UserName</td>
<td>Text</td>
<td>NO</td>
<td>Unique name given to each user for login.</td>
</tr>
<tr>
<td>SubTime</td>
<td>Text</td>
<td>YES</td>
<td>Password needed to enter the system.</td>
</tr>
<tr>
<td>Level</td>
<td>Text</td>
<td>YES</td>
<td>Level determines what the user has access to. Ex) student, course coordinator.</td>
</tr>
<tr>
<td>LecSection</td>
<td>Text</td>
<td>YES</td>
<td>Unique ID assigned to each lecture section.</td>
</tr>
<tr>
<td>LabSection</td>
<td>Text</td>
<td>YES</td>
<td>Unique ID assigned to each lab section.</td>
</tr>
</tbody>
</table>
Entity Relationship Diagram

Relationships for Excel Grading System
Wednesday, February 15, 2006

Courses
- CourseID
- CourseName

Submissions
- UserName
- SubTime
- AssignID
- SubName

Assignments
- AssignID
- SubTime
- CourseID
- SubName

Users
- UserName
- Password
- Level
- CourseID

Summary
- AssignID
- MostWrong
- AvgScore
Testing Plan
Approach

- The version of our Test Plan is Version 1, Revision 0.
- Each Update to the GUI or other superficial changes warrant a new revision.
- Any update in excel will warrant a new version of our software.
We will correct any errors as they occur throughout our testing process.

If any major problems should arise, we will discuss it with our clients to decide on the best way to fix the error.
Features To Be Tested

There are two main sections that we will be conducting our testing on:

- The Interface.
  - The main thing is to make sure the web page flows correctly and easily.
  - The correction of submitted labs.
Item Pass/Fail Criteria

Functions

- Each function will be tested on various types of data contained within various types of cells.

- If an undesirable output occurs then testing will suspend and the problem will be assessed and fixed.
Item Pass/Fail Criteria Cont’d

〜 GUI’s (Graphical User Interface’s)

〜 There will be individual Test Cases for the interface on items such as:

〜 Links, Buttons, Text Boxes, Drop-Down Menus, and other sources of user input.

〜 Each Test Case will have to pass in order for the interface to be completed.
### Sample Testing Case

**Field Name: “Username” Text Box**

<table>
<thead>
<tr>
<th>Attempted</th>
<th>Expected Result</th>
<th>Pass</th>
<th>Fail</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.) Right Click Menu pops up.</td>
<td>Menu pops up</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.) Left Click Allows user to enter text.</td>
<td>Allows user to enter text.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Schedule
Gantt Chart

<table>
<thead>
<tr>
<th>Task Name</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSG Software Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meetings</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Client Meetings</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Team Meetings</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detailed Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detailed Design Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detailed Design Prensentation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acceptance Test</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acceptance Test Doc</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acceptance Test Prensentation</td>
<td></td>
<td></td>
<td></td>
<td>5/1</td>
</tr>
<tr>
<td>Academic Celebration</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class Party</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Legend:
- Task
- Milestone

*Note: Milestones marked with stars.*
Linear Sequential Method
(Waterfall Model)
What’s Next?

- Acceptance Test
- Documents Due: May 1, 2006
- Presentation: May 2, 2006
- Academic Celebration May 5, 2006
- End of Semester Meeting (Alumni House) May 8, 2006

NSG Software Development

February 21, 2006
Any Questions?

Thank You!