

NSG Software Development

Detailed Design Presentation

February 21, 2006

Welcome

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&
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NSG Software Development

- ~ Justin Spegele - Team Leader & Webmaster
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- ~ Matthew Warner - Lead Programmer & System Administrator
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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

The screenshot shows a web browser window titled "XLS Grade" with the URL http://oraserv.cs.siena.edu/~perm_nsgs/gui/new_student.html. The browser's address bar includes a search box with "Google". The page features a green header with the text "XLS Grade Beta 1.2". Below the header, there are two green navigation bars: "About XLS Grade" and "Welcome to XLS Grade". The "About XLS Grade" bar contains links for "Tools" and "Logout". The "Welcome to XLS Grade" bar contains a registration form. The form is titled "Fill in each of the following fields." and includes the following fields: "XLS Password" (with a "Whats this?" link), "First Name", "Last Name", "SID", "E-mail" (with a "@siena.edu" placeholder), "Lab Section" (with a "Select One" dropdown), and "Lecture Session" (with a "Select One" dropdown). A "Register" button is located at the bottom of the form. At the bottom of the page, there is a copyright notice: "©2005 NSG Software" and a date: "Date last Modified: Wed Feb 15 2006 21:52:54".

XLS Grade Beta 1.2

About XLS Grade

Welcome to XLS Grade

Tools
[Logout](#)

Fill in each of the following fields.

XLS Password Whats this?	<input type="text"/>
First Name	<input type="text"/>
Last Name	<input type="text"/>
SID	<input type="text"/>
E-mail	<input type="text" value="@siena.edu"/>
Lab Section	Select One <input type="button" value="v"/>
Lecture Session	Select One <input type="button" value="v"/>
<input type="button" value="Register"/>	

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Lecture Instructor Registration Page

The screenshot shows a web browser window titled "XLS Grade" with the URL http://oraserv.cs.siena.edu/~perm_nsgs/gui/new_lab_instructor.l. The browser's address bar includes navigation icons and a search box with "Google". A menu bar below the address bar lists various links: Bootlegs, Key Bank, Blackboard, Siena Community, TorrentBox, MiniNova, Engadget, Rampancy, Apple, and eBay.

The main content area features a large green banner with the text "XLS Grade Beta 1.2". Below this banner, there are two green boxes: one on the left containing the text "About XLS Grade" and "Tools" (with a link to "Logout"), and one on the right containing the text "Welcome to XLS Grade".

The registration form is titled "Fill in each of the following fields." and contains the following fields:

XLS Password (Whats this?)	<input type="text"/>
First Name	<input type="text"/>
Last Name	<input type="text"/>
ID	<input type="text"/>
E-mail	<input type="text" value="@siena.edu"/>
Lecture Section	<input type="text" value="Select One"/>

At the bottom of the form is a "Register" button.

At the bottom of the page, there is a copyright notice: ©2005 NSG Software, and a date: Date last Modified: Thu Feb 16 2006 13:06:25.

Lab Instructor Registration Page

XLS Grade

http://oraserv.cs.siena.edu/~perm_nsgs/gui/new_lab_instructor.l

Google

Bootlegs Key Bank Blackboard Siena Community TorrentBox MiniNova Engadget Rampancy Apple eBay

XLS Grade Beta 1.2

About XLS Grade

[Tools](#)
[Logout](#)

Welcome to XLS Grade

Fill in each of the following fields.

XLS Password (Whats this?)	<input type="text"/>
First Name	<input type="text"/>
Last Name	<input type="text"/>
ID	<input type="text"/>
E-mail	<input type="text" value="@siena.edu"/>
Lab Section	Select One <input type="button" value="v"/>
<input type="button" value="Register"/>	

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Date last Modified: Mon Feb 20 2006 20:21:55

Course Coordinator - View Grade Summaries

The screenshot shows a web browser window titled "XLS Grade" with the URL http://oraserv.cs.siena.edu/%7Eperm_nsgs/gui/admin_summarie. The browser's address bar includes a search engine icon and the text "Google". Below the address bar is a navigation menu with links: "Bootlegs", "Key Bank", "Blackboard", "Siena Community", "TorrentBox", "MiniNova", "Engadget", "Rampancy", "Apple", and "eBay".

The main content area features a large green header with the text "XLS Grade Beta 1.2". Below this, there are two columns of navigation links on the left and a main content area on the right. The left column includes sections for "My Account" (with links for "Logout" and "Change Password"), "Tools" (with links for "Upload Grading Key", "View Grading Summaries", "Create Student Account", "Edit Student Account", "Create Instructor Account", "Edit Instructor Account", "Add/Delete Lecture Section", and "Add/Delete Lab Section").

The right column displays a "Welcome Ms. Cotler (Course Coordinator)" message, followed by "Account/Site News" and a green header for "View Grading Summaries". Below this, there is a section titled "Select Summaries By:" with four options, each with a "GO" button:

- Lecture Section: GO
- OR
- Lab Section: GO
- OR
- Last Name: GO
- OR
- Question: GO

At the bottom of the page, there are links for "Home", "Logout", and "Tools", followed by the copyright notice "©2005 NSG Software" and the date "Date last Modified: Wed Feb 15 2006 21:15:48".

Lab Instructor - View Grade Summaries

The screenshot shows a web browser window titled "XLS Grade" with the URL http://oraserv.cs.siena.edu/%7Eperm_nsgs/gui/lab_summaries.ht. The browser's address bar includes a search box with the text "Google". Below the address bar is a navigation bar with links to "Bootlegs", "Key Bank", "Blackboard", "Siena Community", "TorrentBox", "MiniNova", "Engadget", "Rampancy", "Apple", and "eBay".

The main content area features a large green header with the text "XLS Grade Beta 1.2". Below this header is a sidebar on the left with a green background, containing the following sections:

- My Account**
 - [Logout](#)
 - [Change Password](#)
- Tools**
 - [View Grading Summaries](#)
 - [View Grades](#)
 - [Find a Student](#)

The main content area below the sidebar displays the user's name "Dr. Hunter (Lab Instructor)" in a green bar. Below this is the text "Account/Site News" and another green bar with the heading "Select Summary Type".

There are two search options:

- By Last Name:** A text input field followed by a "GO" button.
- By Section:** A dropdown menu with "Select One" and a plus sign, followed by a "GO" button.

At the bottom of the page, there are links for "Home", "Logout", and "Tools", followed by the copyright notice "@2005 NSG Software" and the text "Date last Modified: Wed Feb 15 2006 21:37:56".

Student - Upload Labs

The screenshot shows a web browser window titled "XLS Grade" with the URL http://oraserv.cs.siena.edu/%7Eperm_nsgs/gui/student_upload.h. The browser's address bar includes a search box with "Google" and a bookmarks bar with links to "Bootlegs", "Key Bank", "Blackboard", "Siena Community", "TorrentBox", "MiniNova", "Engadget", "Rampancy", "Apple", and "eBay".

The main content area features a large green banner with the text "XLS Grade Beta 1.2". Below this, a green bar displays "Welcome John Q. Student", followed by "Account/Site News". A prominent green bar reads "Upload Files - Lab 2".

On the left side, a green sidebar contains the following sections:

- My Account**
 - [Logout](#)
 - [Change Password](#)
- Tools**
 - [Upload Lab](#)
 - [View Grades](#)

The main interface includes a dropdown menu for "Lab 1" and a link to "View required files for this lab". Below this are three file upload fields:

- File 1:
- File 2:
- File 3:

An "Upload" button is positioned below the file fields. At the bottom of the page, there are links for "Home", "Logout", and "Tools", along with the copyright notice "©2005 NSG Software" and the text "Date last Modified: Sun Feb 19 2006 15:12:24".

Database

Assignments Table

<u>Column Name</u>	<u>Type</u>	<u>Nulls</u>	<u>Column Comments</u>
AssignId	Text	NO	Each assignment receives an ID to distinguish between them.
SubTime	Number	YES	The time and date the assignment was submitted.
CourseId	Number	YES	Unique ID assigned to each lab section.
SubName	Text	YES	Name of the submitted assignment

Sections Table

<u>Column Name</u>	<u>Type</u>	<u>Nulls</u>	<u>Column Comments</u>
CourseID	Text	NO	Unique ID assigned to each lab section.
CouseName	Text	Yes	Section number assigned to the course.

Lab Files Table

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

Results Table

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

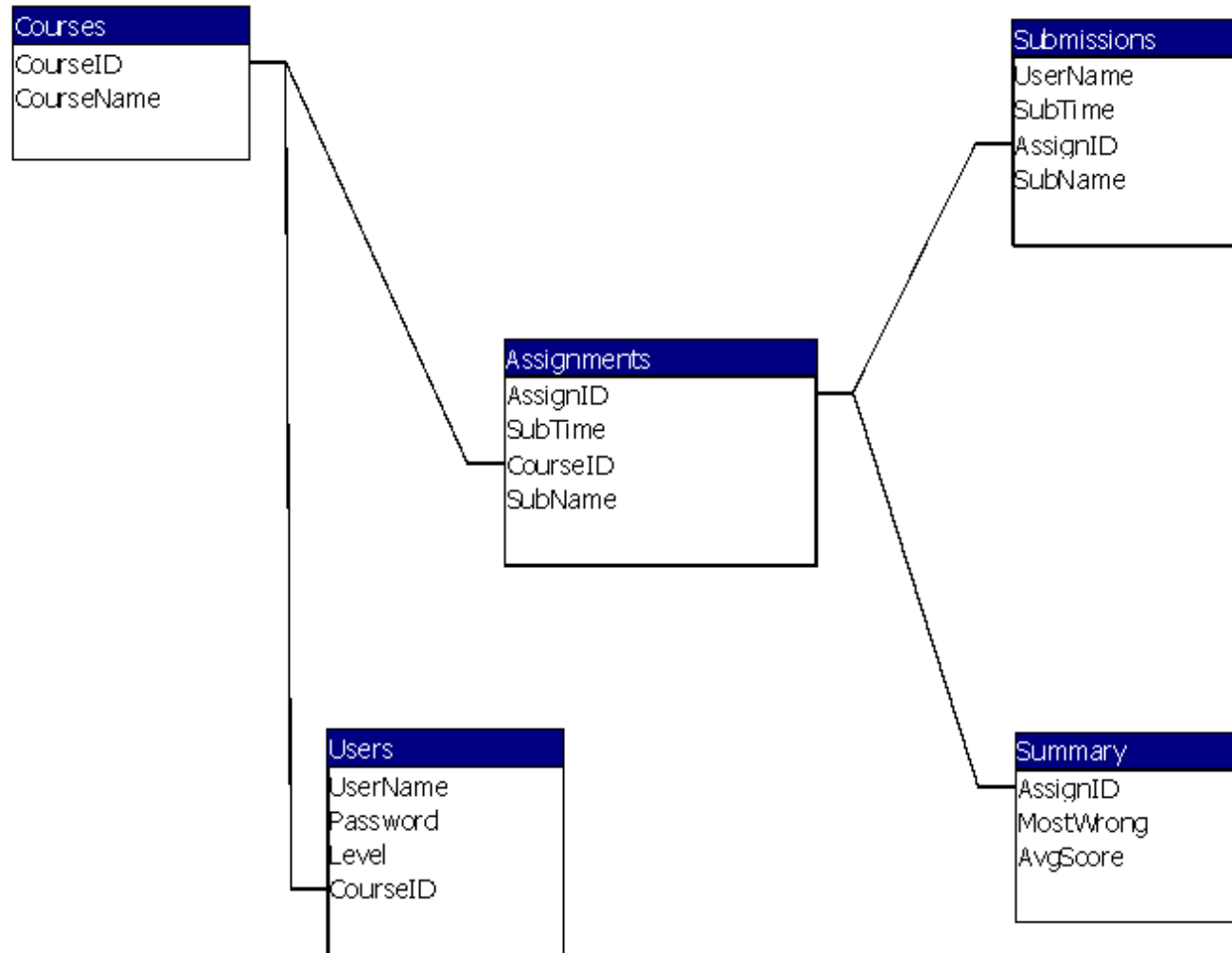
Account Table

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

Entity Relationship Diagram

Relationships for Excel Grading System

Wednesday, February 15, 2006



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.

Approach Cont'd

- ~ 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.

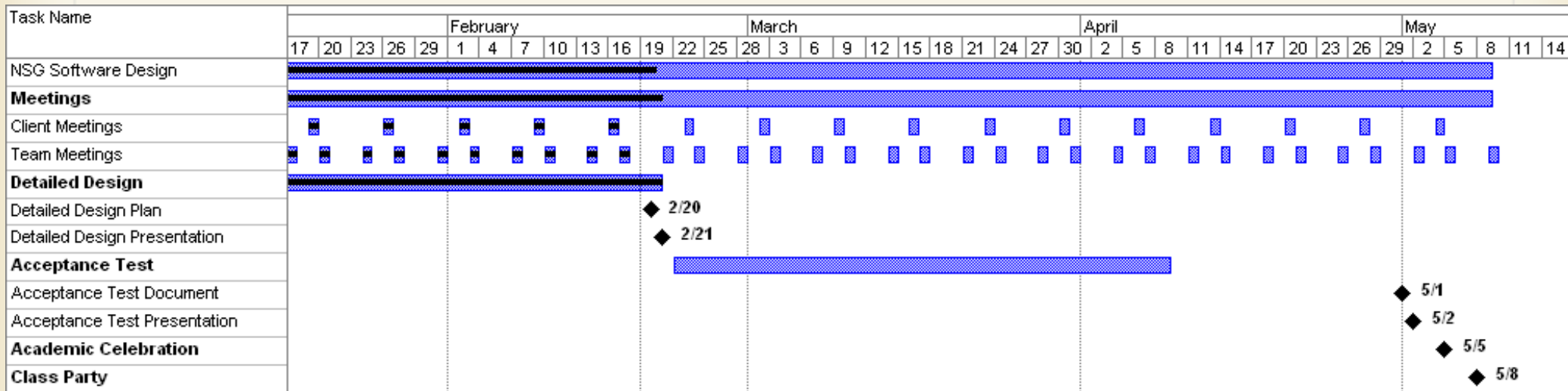
Sample Testing Case

Field Name: "Username" Text Box

<u>Attempted</u>	<u>Expected Result</u>	<u>Pass</u>	<u>Fail</u>	<u>Comments</u>
1.) Right Click Menu pops up.	Menu pops up			
2.) Left Click Allows user to enter text.	Allows user to enter text.			

Schedule

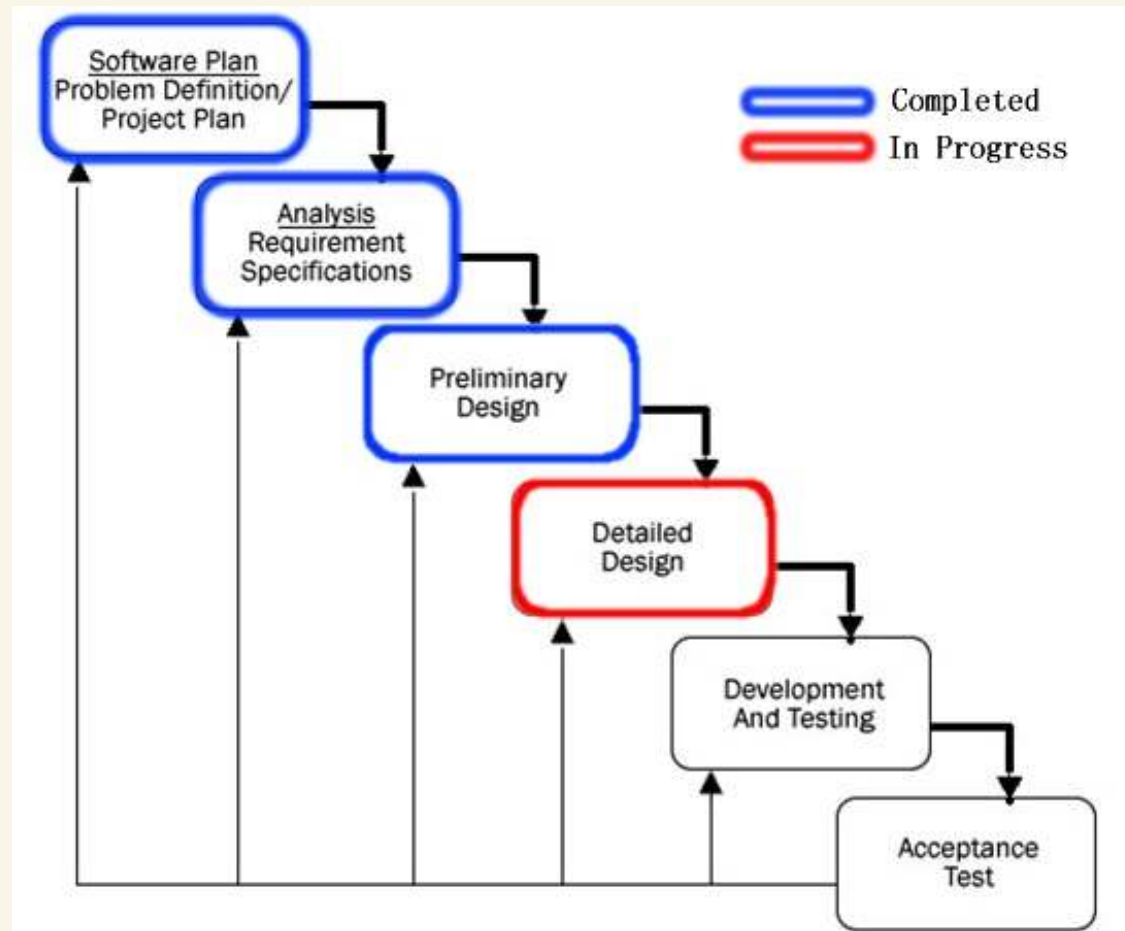
Gantt Chart



Legend

- Task 
- Progress 
- Milestone 

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

Any Questions?

Thank You!