

Acceptance Test

Simnet View

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I. Introduction

Simnet is an application that is used to test students' knowledge of Microsoft Office applications. The results of these tests need to be organized in a manner in which our clients, Ms. Jami Cotler and Dr. Timothy Lederman, can view, adjust, and manage data. Simnet View is an application that will allow our clients to retrieve the information they need from the Simnet test data. This data is important to the future development of the classes that use it, as well as for analysis that is continuously being conducted by our clients. Simnet View will also be able to export data to be further manipulated in ways the native internet browser can not support on its own.

II. Requirements Inventory

The following requirements inventory was created and modified during previous steps in the software development lifecycle. The purpose of creating this requirements inventory was to reach a formal and complete listing of all features that were to be included in the Simnet View Application. Each of these items has been tested fully and the results of these tests can be found in the Test Plan Results document which has been attached separately.

2.1 Use Case Scenarios

The Simnet View Web Application will include two different types of user accounts, administrators and general users. There will be five accounts total, two administrative user accounts and three general user accounts.

The requirements are listed according to user case.

Administrative User:

- Will be assigned a username and password as part of the creation of the software.
- Will be able to log into system.
 - If password is forgotten, will be able to click a link for help directions.
- Will be able to change passwords of all users.
- Will be able to copy Simnet result files between all directories.
- Will be able to delete Simnet result files from user-created directories.
- Will be able to move Simnet result files from user-created directories to another directory.
- Will be able to create directories with any name within Simnet View's working directory.
- Will be able to delete any user-created directory that has no sub-directories or files.
- Will be able to search through stored results by year.
- Will be able to search through stored results by session.
- Will be able to search through stored results by course.
- Will be able to view result data sorted by section.
- Will be able to view result data sorted by specific student.
- Will be able to view result data about the course as a whole.
- Will be able to view result data by student ID.

- Will be able to sort result data by questions.
- Will be able to sort result data by number of tries per question.
- Will be able to sort result data by correct or incorrect.
- Will be able to view results in html (web-browser).
- Will be able to view results in CSV (comma separated values) format.

General User:

- Will be assigned a username and password as part of creation of software.
- Will be able to change their password.
- Will be able to log into system.
 - If password is forgotten, will be able to click a link for help directions.
- Will be able to search through stored results by year.
- Will be able to search through stored results by session.
- Will be able to search through stored results by course.
- Will be able to view result data sorted by section.
- Will be able to view result data sorted by specific student.
- Will be able to view result data about the course as a whole.
- Will be able to view result data by student ID.
- Will be able to sort result data by questions.
- Will be able to sort result data by number of tries per question.
- Will be able to sort result data by correct or incorrect.
- Will be able to view results in html (web-browser).

2.2 Functional Requirements Inventory

Functional requirements specify particular behaviors of a system. This should be contrasted with non-functional requirements which specify overall characteristics such as cost and reliability. The following is a list of functional requirements:

External Systems/Software and Safety

The Simnet View Application is to be web based and must be viewable from any computer with internet access.

Yes No

The system must work on the most popular platforms, which include Windows, Macintosh, and Linux and the default Operating Systems for Windows and Macintosh: Windows XP, Windows Vista, Mac OSX.

Yes No

The system must work on the most widely used and popular web browsers and will be tested on the following web browsing programs:

- Microsoft Internet Explorer 7.0
- Mozilla Firefox 2.0

Yes No

The users must have the ability to log in to the system securely from any computer.

Yes No

Welcome Screen

Upon pressing the “Log In” button we will ensure that the user name and password are correct, and then redirect the user to the main screen of the program.

Yes No

Upon pressing “Forgot Password” we will ensure that the user is given instructions on how to recover/change their password.

Yes No

Change Password Screen

Upon selecting “Change Password” we will ensure that the user is taken to the “Change Password” screen and given appropriate instructions on how to change their password.

Yes No

Administrator: Manage Files Screen

Display the directory structure

Yes No

Scrolling up and down on both panes

Yes No

Selection of multiple files

Yes No

Selecting a folder drops down the files in it

Yes No

Faculty: Student Data Screen

Query the database for the data for a specific student and display it to the user (question #, initial answer, final answer, # tries)

Yes No

Make sure all links work

Yes No

Clicking on a question number pops-up a screen with the question text and information

Yes No

Clicking print sends the data to the printer

Yes No

Administrator: Student Data Screen

*Prerequisite: *Faculty: Student Data Screen* must be fully functioning

- Export in CSV format

Yes No

Faculty: Student Summary Screen

Query the database and display appropriate information (username, score, questions answered, avg # tries, and time taken)

Yes No

Sort information by student name

Yes No

Clicking a student name brings the user to a “Student Data” Screen

Yes No

Clicking print sends the data to the printer

Yes No

Administrator: Student Summary Screen

*Prerequisite: *Faculty: Student Summary Screen* must be fully functioning

- Export in CSV format

Yes No

Faculty: Class Data Screen

Query the database and display the class information sorted by question number (question, #correct, # incorrect, and avg # of tries)

Yes No

Clicking on a question number pops-up a screen with the question text and information

Yes No

Clicking print sends the data to the printer

Yes No

Administrator: Class Data Screen

*Prerequisite: *Faculty: Class Data Screen* must be fully functioning

- Export in CSV format

Yes No

2.3 Non-Functional Requirements Inventory

Non-functional requirements specify criteria that can be used to judge the operation of a system, rather than specific behaviors. This should be contrasted with functional requirements that specify specific behavior or functions. These requirements are not easily tested, as some of the requirements are subjective in nature. The following is a list of items that will be carefully reviewed and tested in the best manner possible:

Simnet View must be universal. This system will be able to run on the following platforms: Windows, Macintosh, and *NIX systems. It will also be accessible through Microsoft Internet Explorer 7.0 or better and Mozilla Firefox 2.0 or better. The Simnet View program will be designed for a web browser screen resolution of 1024 x 768.

The Simnet View application must be efficient and not cause a slow down on whatever server hosts it. It must be able to quickly access and supply data to and from a database in order to ensure that users are not kept waiting.

The Simnet View application must be secure. The system should only be accessible to limited user accounts and the administrator accounts. Unregistered users must not be able to enter the application in any way.

The Simnet View application code must be readable, understandable, and extensible. Future developers should be able to easily interpret code to know what it is doing and why in order to ease future development and expansion of the capabilities of the Simnet View application.

2.4 Non-Functional Requirements Inventory Testing Results:

- We tested our software on mainly on Windows.
- We tested our software on 2 types of web browser. Firefox and is best for viewing our web page. Internet explorer 7 works good as well, the only difference is viewing password characters on the change password screen.
- The Simnet View Application appears to run efficiently without slowing down.
- There are five accounts in which only the correct password for each account will log you in.
- Our application code is readable and easily understood.

III. Environments Systems and Performance

The Simnet View program has been developed at Siena College in the Software Engineering laboratory. The InnoSmart Technologies team used a Dell Dimension 4550 running Microsoft Windows XP Service Pack 2, and an Apple I-Mac running Macintosh Operating System X 10.4.10 to do the primary development.

The Simnet View program will be stored, through development and production, on a Dell PowerEdge 2550 which is runs with 2 Pentium III 1133MHz processors, 3 GB RAM, and 198 GB of total hard drive space. The computer runs Red Hat Enterprise Linux ES release 3, code name Taroon, operating system. It runs an Apache 2.0.54 web server, PHP 4.3.11, and MySQL 4.1.14.

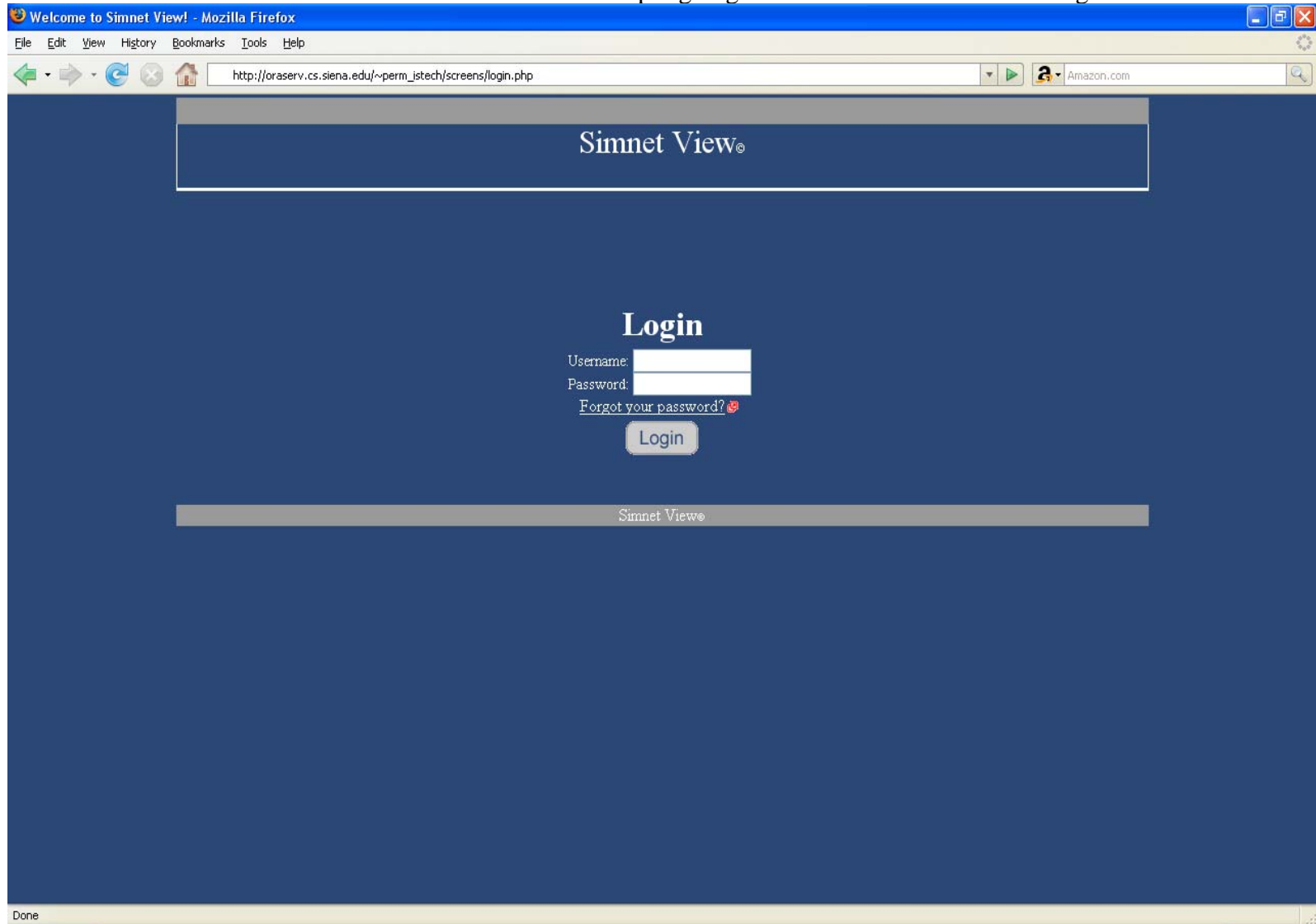
Simnet View has been developed to be accessible via two of the main internet browsers; Internet Explorer 7, Mozilla Firefox versions 2.0 and higher.

The users of Simnet View are able to access the application from any computer with any of the two internet browsers previously listed and will have full usage of the application.

IV. User Displays

4.1 Login Page:

The first screen that a user will see when attempting to get to Simnet View will be the login screen



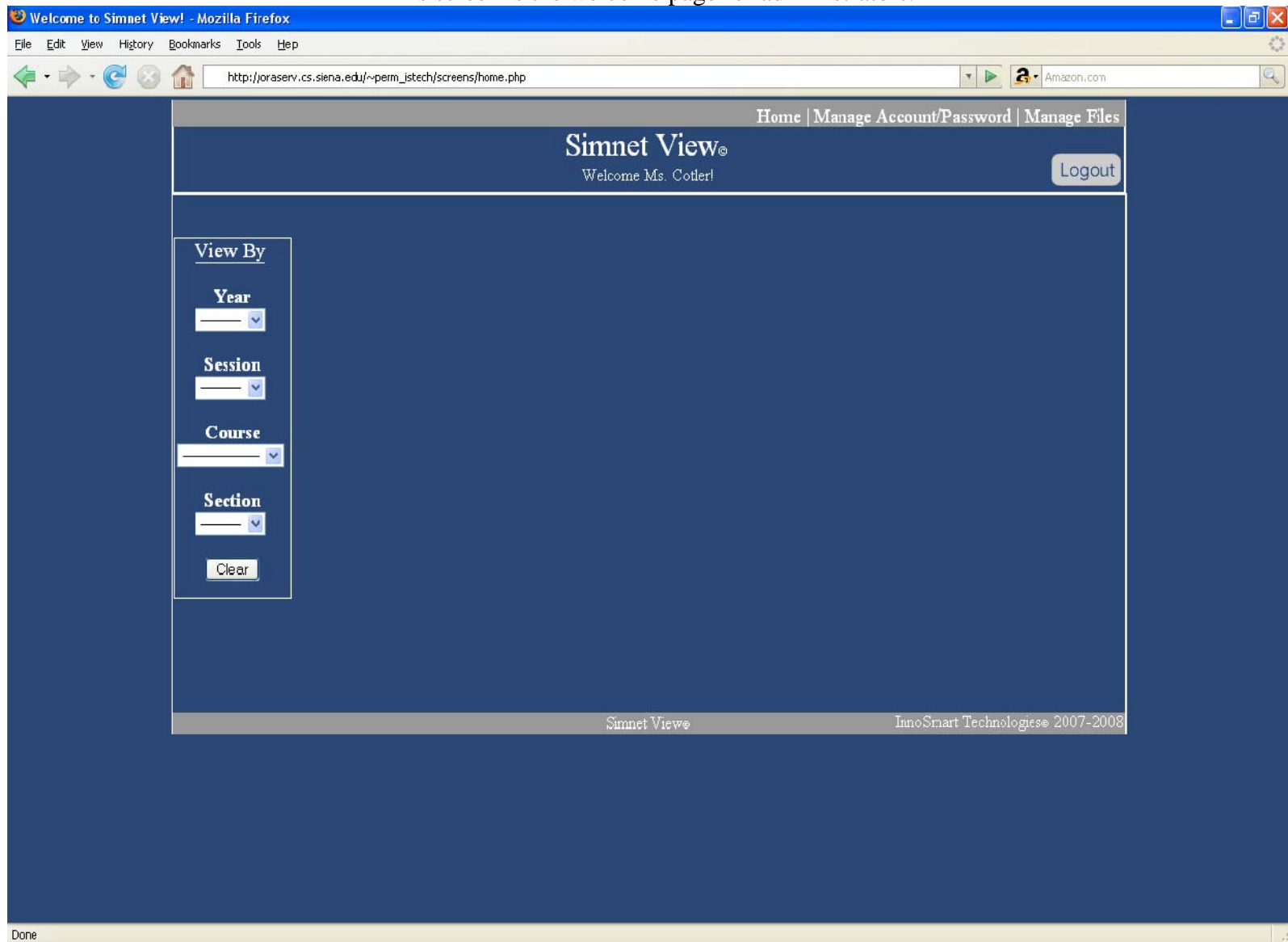
4.2 Forgot Password Pop-Up:

If the user has forgotten their password they can click the “Forgot Password” link and this screen will pop up..

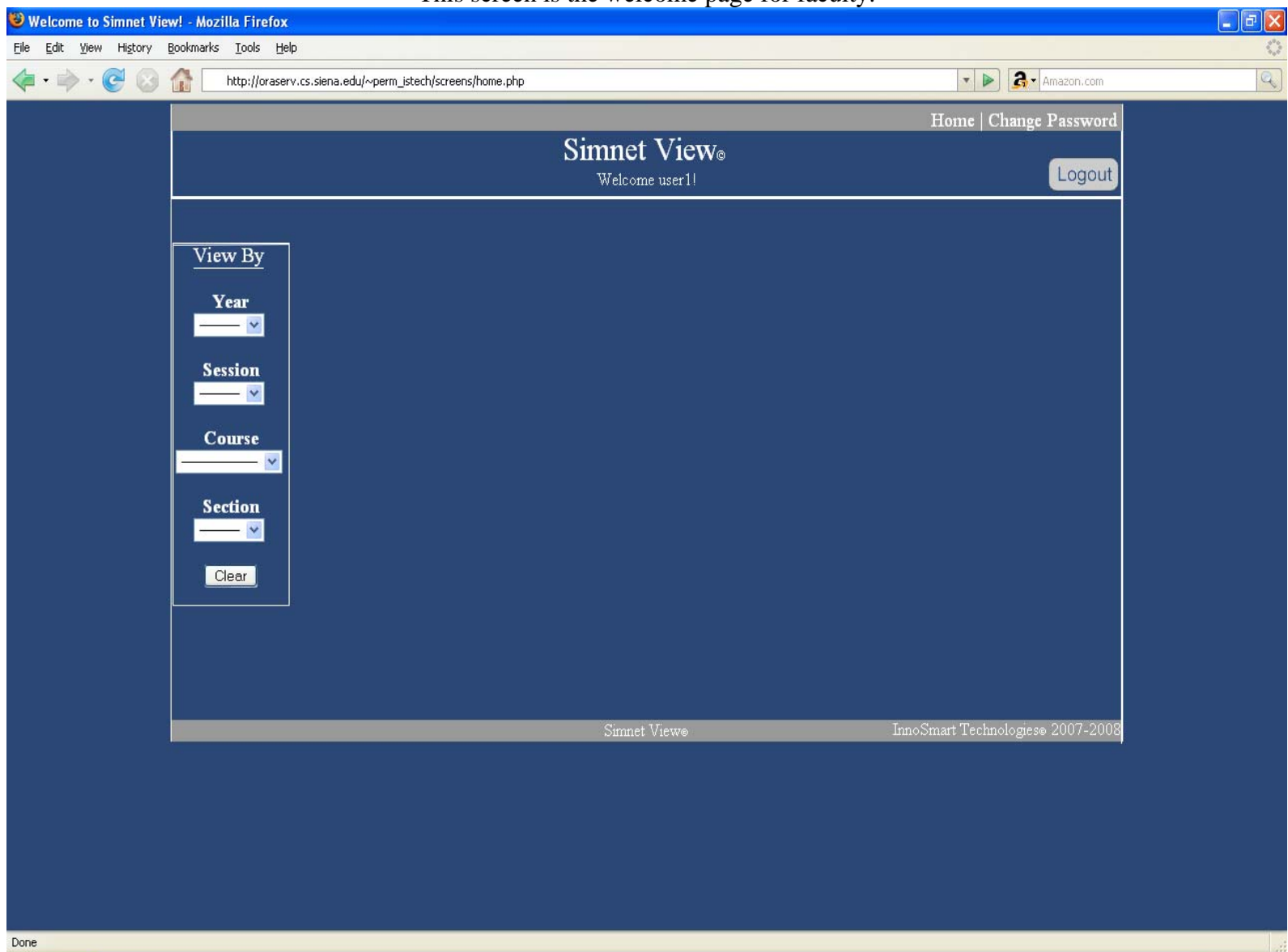


The screenshot shows a Mozilla Firefox browser window with the address bar displaying <http://oraserv.cs.siena.edu> - Forgot Password - Mozilla Firefox. The browser's menu bar includes File, Edit, View, History, Bookmarks, Tools, and Help. The main content area has a dark blue background with the title "Forgot Password" in white serif font. Below the title are four white input fields with labels: "Username:", "New Password:", "Retype New Password:", and "Email:". Below the input fields is a white instruction: "Click submit to have an email sent to the administrator with your request for a new password." and a white "Submit" button. The status bar at the bottom left shows "Done".

4.3 Administrator Welcome Screen: This screen is the welcome page for administrators.



4.4 Faculty Welcome Screen: This screen is the welcome page for faculty.



4.5 Administrators: Manage Accounts:

Once logged into Simnet View, the Administrator has the option to change their passwords or any other user's password.

The screenshot shows a web browser window titled "Account Management - Mozilla Firefox". The address bar displays the URL: `http://oraserv.cs.siena.edu/~perm_istech/screens/ManageAccount.php`. The browser's menu bar includes "File", "Edit", "View", "History", "Bookmarks", "Tools", and "Help". The page content features a navigation bar with links for "Home", "Manage Account/Password", and "Manage Files". The main header area displays "Simnet View®" and "Administrator: Account Management", with a "Logout" button on the right. The central form contains the following elements:

- "Select User:" dropdown menu with "admin1" selected.
- "New Password:" text input field.
- "Retype New Password:" text input field.
- "Email:" text input field with "jcotler@siena.edu" entered.
- "Admin's Name:" text input field with "Mrs. Cotler" entered.
- A link: "Please show me what I'm typing in the password boxes."
- "Submit" and "Clear" buttons.

The footer of the page includes "Simnet View" and "InnoSmart Technologies® 2007-2008". The browser's status bar at the bottom shows "Done".

4.6 Faculty: Change Password:

Once logged into Simnet View, Faculty have the option to change their password.

The screenshot shows a Mozilla Firefox browser window with the title "Account Management - Mozilla Firefox". The address bar contains the URL "http://oraserv.cs.siena.edu/~perm_istech/screens/ManageAccount.php". The page content includes a navigation bar with "Home" and "Change Password" links. The main header displays "Simnet View®" and "Faculty: Account Management" with a "Logout" button. The central form area contains the following elements:

- Old Password:
- New Password:
- Retype New Password:
- A link: [Please show me what I'm typing in the password boxes.](#)
- Buttons:

The footer of the page contains "Simnet View" and "ImmoSmart Technologies® 2007-2008". The status bar at the bottom of the browser window shows "Done".

4.7 Administrator View Reports: Year:

This screen lists all the reports within a particular year. The administrator has the choice to view the report on screen, export the raw data to CSV or export the calculated data in CSV to be opened in excel, or print it.

The screenshot shows a web browser window displaying the Simnet View application. The browser's address bar shows the URL: http://oraserv.cs.siena.edu/~perm_istech/SimnetView/home.php. The application header includes navigation links: Home | Manage Account/Password | Manage Files. The main header displays the Simnet View logo and a welcome message: "Welcome Ms. Cotler!". A "Log Out" button is visible in the top right corner.

On the left side, there is a "View By" sidebar with the following filters:

- Year:** A dropdown menu currently set to "2006".
- Session:** A dropdown menu currently set to "-".
- Course:** A dropdown menu currently set to "-".
- Section:** A dropdown menu currently set to "-".
- A "Clear" button at the bottom of the sidebar.

The main content area displays the selected filters: "Year: 2006 Session: - Course: - Section: -". Below this, a list of reports is shown with their respective actions:

Report Name	Print	Calculated CSV	Raw Data CSV	On Screen
Spreadsheet Exam Spring 2006.....	Print	Calculated CSV	Raw Data CSV	On Screen
Spreadsheet Exam Fall 2006.....	Print	Calculated CSV	Raw Data CSV	On Screen

The footer of the application contains the text: "Simnet View" on the left and "InnoSmart Technologies® 2007-2008" on the right.

4.8 Faculty View Reports: Year:

This screen lists all the reports within a particular year. Faculty have has the choice to view the report on screen, or print it.

The screenshot shows a web browser window displaying the Simnet View application. The browser's address bar shows the URL: `http://oraserv.cs.siena.edu/~perm_istech/SimnetView/home.php`. The application header includes "Home | Change Password" and "Simnet View® Welcome user!!" with a "Log Out" button. On the left, a "View By" sidebar contains dropdown menus for "Year" (set to 2006), "Session", "Course", and "Section", along with a "Clear" button. The main content area displays a table with the following data:

Year: 2006 Session: - Course: - Section: -	
Spreadsheet Exam Spring 2006.....	Print / On Screen
Spreadsheet Exam Fall 2006.....	Print / On Screen

The footer of the application shows "Simnet View" on the left and "InnoSmart Technologies® 2007-2008" on the right.

4.9 Administrator View Reports: Year, Session:

This screen lists all the reports within a particular year and from a particular session. The administrator has the choice to view the report on screen, export the raw data to CSV or export the calculated data in CSV to be opened in excel, or print it.

The screenshot shows a web browser window displaying the Simnet View application. The browser's address bar shows the URL: `http://oraserv.cs.siena.edu/~perm_istech/SimnetView/home.php`. The application header includes navigation links: [Home](#), [Manage Account/Password](#), and [Manage Files](#). The main header displays the logo "Simnet View®" and a welcome message "Welcome Ms. Cotler!" with a [Log Out](#) button.

On the left side, there is a "View By" sidebar with the following filters:

- Year:** 2006
- Session:** Fall
- Course:** (empty dropdown)
- Section:** (empty dropdown)
- [Clear](#) button

The main content area displays the selected filters: "Year: 2006 Session: Fall Course: - Section: -". Below this, a list of reports is shown:

Report Name	Actions
Spreadsheet Exam Fall 2006.....	Print / Calculated CSV / Raw Data CSV / On Screen

The footer of the application contains the text "Simnet View®" on the left and "InnoSmart Technologies® 2007-2008" on the right.

4.10 Faculty View Reports: Year, Session:

This screen lists all the reports within a particular year and from a particular session. Faculty have the choice to view the report on screen or print it.

The screenshot shows a web browser window displaying the Simnet View application. The browser's address bar shows the URL: `http://oraserv.cs.siena.edu/~perm_istech/SimnetView/home.php`. The application header includes "Home | Change Password" and "Welcome user1!" with a "Log Out" button. On the left, a "View By" sidebar contains filters for Year (2006), Session (Fall), Course, and Section, along with a "Clear" button. The main content area displays the selected filters: "Year: 2006 Session: Fall Course: - Section: -". Below this, a list of reports is shown, with one entry: "Spreadsheet Exam Fall 2006..... [Print](#) / [On Screen](#)". The footer of the application contains "Simnet View" and "InnoSmart Technologies© 2007-2008".

4.11 Administrator View Reports: Year, Session, Course:

This screen lists all the reports within a particular year, from a particular session and from a particular course. The administrator has the choice to view the report on screen, export the raw data or export the calculated data in CSV to be opened in excel, or print it.

The screenshot shows a web browser window displaying the Simnet View administrator interface. The browser's address bar shows the URL: `http://oraserv.cs.siena.edu/~perm_istech/SimnetView/home.php`. The page has a dark blue header with the text "Simnet View®" and "Welcome Ms. Cotler!". Navigation links include "Home", "Manage Account/Password", "Manage Files", and a "Log Out" button.

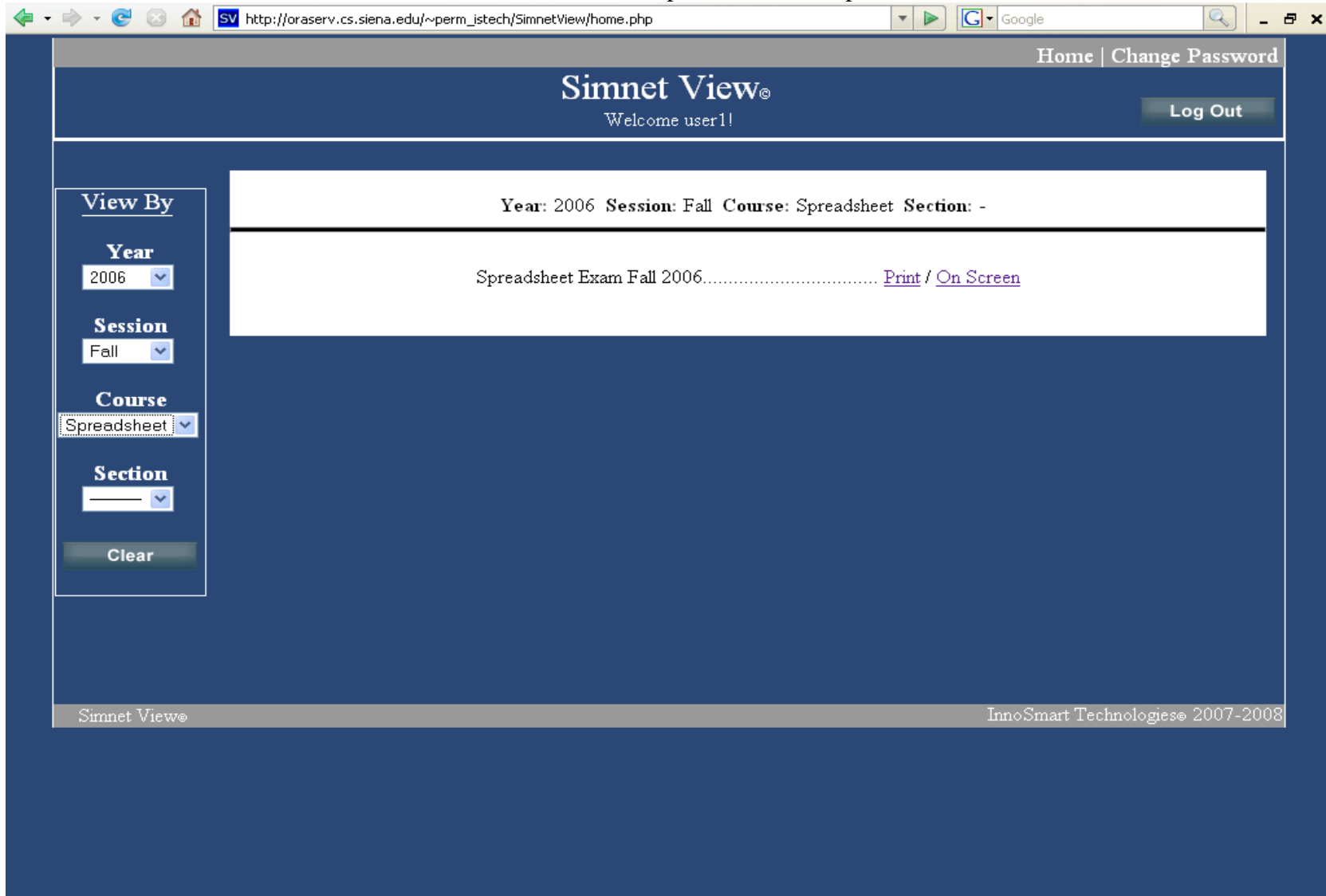
On the left side, there is a "View By" section with four dropdown menus: "Year" (set to 2006), "Session" (set to Fall), "Course" (set to Spreadsheet), and "Section" (set to -). Below these is a "Clear" button.

The main content area displays the selected filters: "Year: 2006 Session: Fall Course: Spreadsheet Section: -". Below this, a table lists reports. The first entry is "Spreadsheet Exam Fall 2006....." with links for "Print", "Calculated CSV", "Raw Data CSV", and "On Screen".

The footer of the page contains "Simnet View" on the left and "InnoSmart Technologies® 2007-2008" on the right.

4.12 Faculty View Reports: Year, Session, Course:

This screen lists all the reports within a particular year, from a particular session and from a particular course. The administrator has the choice to view the report on screen or print it.



4.13 Administrator: Class Data:

This screen displays the information for a class. It will display the particular course, the sample size of the class, the class average, the average time it took to complete the test, the most commonly incorrect question and the most commonly skipped question. It then shows the number correct, number incorrect and average tries for each question. Each question number as well as the most commonly incorrect and most commonly skipped are links to the question details. Administrators have the option to print this report or export it to a file in csv format.

The screenshot shows the Simnet View administrator interface. At the top, there are navigation links: Home, Manage Account/Password, and Manage Files. The main header displays 'Simnet View' and 'Welcome Mrs. Cotler!' with a Logout button. Below this, a summary section provides the following information: Year: 2006, Session: Spring, Course: Spreadsheet, Section: -, Question Sample Size: 39, Average Class Score: 82.81%, Average Class Time: 34:37, Student Sample Size: 249, Most Commonly Incorrect Question(s): 24, and Most Commonly Skipped Question(s): 36, 24. A 'Student Summary' button is located below the summary. The main content area features a table with the following columns: Question, # Correct (% Correct), # Incorrect (% Incorrect), and Average # Tries. The table lists 12 questions with their respective performance metrics. A 'View By' sidebar on the left allows filtering by Year (2006), Session, Course, and Section, with a Clear button at the bottom. The footer of the interface includes 'Simnet View' and 'InnoSmart Technologies 2007-2008'.

Question	# Correct (% Correct)	# Incorrect (% Incorrect)	Average # Tries
1	241 (96.79 %)	5 (2.01 %)	1.15
2	204 (81.93 %)	38 (15.26 %)	1.43
3	237 (95.18 %)	11 (4.42 %)	1.21
4	231 (92.77 %)	16 (6.43 %)	1.28
5	168 (67.47 %)	77 (30.92 %)	2.10
6	164 (65.86 %)	82 (32.93 %)	2.51
7	218 (87.55 %)	29 (11.65 %)	1.76
8	203 (81.53 %)	39 (15.66 %)	1.40
9	246 (98.80 %)	2 (0.80 %)	1.04
10	248 (99.60 %)	0 (0.00 %)	1.01
11	222 (89.16 %)	25 (10.04 %)	1.49
12	228 (91.57 %)	13 (5.22 %)	1.08

4.14 Faculty Class Data:

This screen displays the information for a class. It will display the particular course, the sample size of the class, the class average, the average time it took to complete the test, the most commonly incorrect question and the most commonly skipped question. It then shows the number correct, number incorrect and average tries for each question. Each question number as well as the most commonly incorrect and most commonly skipped are links to the question details. Faculty can print this information.

Year: 2006 Session: Spring Course: Spreadsheet Section: - Question Sample Size: 39
Average Class Score: 82.81 % Average Class Time: 34:37 Student Sample Size: 249
Most Commonly Incorrect Question(s): 24 Most Commonly Skipped Question(s): 36, 24

Student Summary

Question	# Correct (% Correct)	# Incorrect (% Incorrect)	Average # Tries
1	241 (96.79 %)	5 (2.01 %)	1.15
2	204 (81.93 %)	38 (15.26 %)	1.43
3	237 (95.18 %)	11 (4.42 %)	1.21
4	231 (92.77 %)	16 (6.43 %)	1.28
5	168 (67.47 %)	77 (30.92 %)	2.10
6	164 (65.86 %)	82 (32.93 %)	2.51
7	218 (87.55 %)	29 (11.65 %)	1.76
8	203 (81.53 %)	39 (15.66 %)	1.40
9	246 (98.80 %)	2 (0.80 %)	1.04
10	248 (99.60 %)	0 (0.00 %)	1.01
11	222 (89.16 %)	25 (10.04 %)	1.49
12	228 (91.57 %)	13 (5.22 %)	1.08

4.15 Administrator Student Data Summary:

This screen displays the summary of all students for a particular report. It will display the course, class average, most commonly missed question and most commonly skipped question. It then shows the username, score, number of questions answered, average number of tries and the time it took for each student to complete the exam. The usernames are links linking to the information for that particular student. The most commonly incorrect question and most commonly skipped question are links to the details for that question. Administrators can print the information, or export it to a file in csv format.

Year: 2006 Session: Spring Course: Spreadsheet Section: - Question Sample Size: 39
 Average Class Score: 82.81 % Average Class Time: 34:37 Student Sample Size: 249
 Most Commonly Incorrect Question(s): 24 Most Commonly Skipped Question(s): 36, 24

Class Data

Username	Score	# Questions Answered	Average # Tries	Time ((h):mm:ss)
a01bako	76.92	37 / 39 (94.87 %)	1.38	39:17
a02sava	100.00	39 / 39 (100.00 %)	1.28	24:30
a03lest	87.18	39 / 39 (100.00 %)	1.77	49:59
a04loug	94.87	38 / 39 (97.44 %)	1.21	27:43
a10mari	97.44	38 / 39 (97.44 %)	1.41	52:44
a12davi	97.44	39 / 39 (100.00 %)	1.21	21:39
a21auci	87.18	38 / 39 (97.44 %)	1.46	23:44
a27sopr	94.87	39 / 39 (100.00 %)	1.54	26:49
a30rome	97.44	39 / 39 (100.00 %)	1.44	38:01
ac01peer	87.18	39 / 39 (100.00 %)	1.36	50:18
a20dime	76.92	37 / 39 (94.87 %)	1.46	27:19
am06nuzi	97.44	39 / 39 (100.00 %)	1.54	29:05

4.16 Faculty Student Data Summary:

This screen displays the summary of all students for a particular report. It will display the course, class average, most commonly missed question and most commonly skipped question. It then shows the username, score, number of questions answered, average number of tries and the time it took for each student to complete the exam. The usernames are links linking to the information for that particular student. The most commonly incorrect question and most commonly skipped question are links to the details for that question. Faculty can print the results.

Year: 2006 Session: Spring Course: Spreadsheet Section: - Question Sample Size: 39
 Average Class Score: 82.81 % Average Class Time: 34:37 Student Sample Size: 249
 Most Commonly Incorrect Question(s): 24 Most Commonly Skipped Question(s): 36, 24

Class Data

Username	Score	# Questions Answered	Average # Tries	Time ((h):mm:ss)
a01bako	76.92	37 / 39 (94.87 %)	1.38	39:17
a02sava	100.00	39 / 39 (100.00 %)	1.28	24:30
a03lest	87.18	39 / 39 (100.00 %)	1.77	49:59
a04loug	94.87	38 / 39 (97.44 %)	1.21	27:43
a10mari	97.44	38 / 39 (97.44 %)	1.41	52:44
a12davi	97.44	39 / 39 (100.00 %)	1.21	21:39
a21auci	87.18	38 / 39 (97.44 %)	1.46	23:44
a27sopr	94.87	39 / 39 (100.00 %)	1.54	26:49
a30rome	97.44	39 / 39 (100.00 %)	1.44	38:01
ac01peer	87.18	39 / 39 (100.00 %)	1.36	50:18
a120dime	76.92	37 / 39 (94.87 %)	1.46	27:19
am06nuzi	97.44	39 / 39 (100.00 %)	1.54	29:05

4.17 Administrator: Individual Student Data:

This will be seen when a particular student is double clicked on. It will display the course, student ID, their score and the time it took for them to take the test. It then shows each question number, the student's initial answer, the student's final answer and the number of tries for that question. The question numbers are links linking to the question information. Administrators can print the results or export them to a file in csv format.

The screenshot shows a web browser window displaying the Simnet View administrator interface. The browser address bar shows the URL: http://oraserv.cs.siena.edu/~perm_istech/screens/home.php. The page title is "Simnet View" and it says "Welcome Mrs. Cotler!". There are navigation links for "Home", "Manage Account/Password", and "Manage Files", along with a "Logout" button.

The main content area displays the following information:

- Year: 2006 Session: Spring Course: Spreadsheet Section: - Question Sample Size: 39
- Username: a01bako Score: 76.92 % Time: 39:17

Below this information are two buttons: "Class Data" and "StudentSummary".

On the left side, there is a "View By" sidebar with filters for Year (2006), Session, Course, and Section, along with a "Clear" button.

The main data is presented in a table with the following columns: Question, Initial Answer, Final Answer, and # Tries.

Question	Initial Answer	Final Answer	# Tries
1	Correct	Correct	1
2	Correct	Correct	1
3	Correct	Correct	1
4	Correct	Correct	1
5	Incorrect	Incorrect	4
6	Correct	Correct	1
7	Correct	Correct	1
8	Correct	Correct	1
9	Correct	Correct	1
10	Correct	Correct	1
11	Correct	Correct	1
12	Correct	Correct	1

The footer of the page includes "Simnet View" and "InnoSmart Technologies 2007-2008".

4.18 Faculty: Individual Student Data:

This will be seen when a particular student is double clicked on. It will display the course, student ID, their score and the time it took for them to take the test. It then shows each question number, the student's initial answer, the student's final answer and the number of tries for that question. The question numbers are links linking to the question information. Faculty can print the results.

Year: 2006 Session: Spring Course: Spreadsheet Section: - Question Sample Size: 39
Username: a03lest Score: 87.18 % Time: 49:59

Class Data StudentSummary

Question	Initial Answer	Final Answer	# Tries
1	Correct	Correct	1
2	Correct	Correct	1
3	Correct	Correct	1
4	Correct	Correct	1
5	Incorrect	Incorrect	4
6	Incorrect	Correct	3
7	Correct	Correct	1
8	Incorrect	Correct	3
9	Correct	Correct	1
10	Correct	Correct	1
11	Incorrect	Correct	3
12	Correct	Correct	1

4.19 Question Details:

This screen will pop up if a question number is double clicked. It will display the question text, the number correct, the number incorrect and the average number of tries for that question.

Question #3:
Simnet Question Reference ID: ecxp012

Move the contents of C5 to E5
using drag-and-drop.

# Correct	17	94.44 %
# Incorrect	1	5.56 %
Sample Size	18	
Avg # Tries	1.17	

Done

4.20 Print Dialogue Box:

A new screen will appear with the print preview. This print dialogue box will also appear so the user can select where they would like it printed to and press “OK.”

Report Name: Spreadsheet Exam Spring 2006
Year: 2006 **Session:** Spring **Course:** Spreadsheet **Section:** -
Class Average Score: 82.81 % **Class Average Time:** 34:37
Question Sample Size: 39 **Student Sample Size:** 249

Question	# Correct (% Correct)	# Incorrect (% Incorrect)	Average # Tries
1	241 (96.79 %)	5 (2.01 %)	1.15
2	204 (81.93 %)	38 (15.26 %)	1.43
3	237 (95.18 %)	11 (4.42 %)	1.21
4	231 (92.77 %)	16 (6.43 %)	1.28
5	168 (67.47 %)	77 (30.92 %)	2.10
6	164 (65.86 %)	82 (32.93 %)	2.51
7	218 (87.55 %)	29 (11.65 %)	1.76
8	203 (81.53 %)	39 (15.66 %)	1.40
9	246 (98.80 %)	2 (0.80 %)	1.04
10	248 (99.60 %)	0 (0.00 %)	1.01
11	222 (89.16 %)	25 (10.04 %)	1.49
12	228 (91.57 %)	13 (5.22 %)	1.08
13	228 (91.57 %)	19 (7.63 %)	1.38
14	248 (99.60 %)	0 (0.00 %)	1.01
15	235 (94.38 %)	13 (5.22 %)	1.21
16	196 (78.71 %)	41 (16.47 %)	1.41
17	220 (88.35 %)	10 (4.02 %)	1.15
18	185 (74.30 %)	56 (22.49 %)	1.59
19	175 (70.28 %)	57 (22.89 %)	1.52
20	216 (86.75 %)	24 (9.64 %)	1.28
21	195 (78.31 %)	53 (21.29 %)	1.70
22	172 (69.08 %)	75 (30.12 %)	2.21
23	238 (95.58 %)	8 (3.21 %)	1.04
24	36 (14.46 %)	168 (67.47 %)	2.45
25	234 (93.98 %)	10 (4.02 %)	1.08
26	131 (52.61 %)	105 (42.17 %)	1.86
27	170 (68.27 %)	60 (24.10 %)	1.60
28	242 (97.19 %)	2 (0.80 %)	1.00
29	236 (94.78 %)	11 (4.42 %)	1.22
30	236 (94.78 %)	12 (4.82 %)	1.22
31	160 (64.26 %)	89 (35.74 %)	2.51
32	249 (100.00 %)	0 (0.00 %)	1.00
33	234 (93.98 %)	13 (5.22 %)	1.29
34	215 (86.35 %)	32 (12.85 %)	1.66
35	244 (97.99 %)	1 (0.40 %)	1.04
36	131 (52.61 %)	87 (34.94 %)	1.94
37	145 (58.23 %)	94 (37.75 %)	2.18
38	237 (91.16 %)	17 (6.82 %)	1.16

Print Dialogue Box:

Printer: lrb348 on papercut
 Status: Ready
 Type: HP LaserJet 4100 Series PS
 Where: http://papercut.cs.siena.edu:631/printers/lrb348
 Print to file

Print range: All
 Pages from: 1 to: 1
 Selection

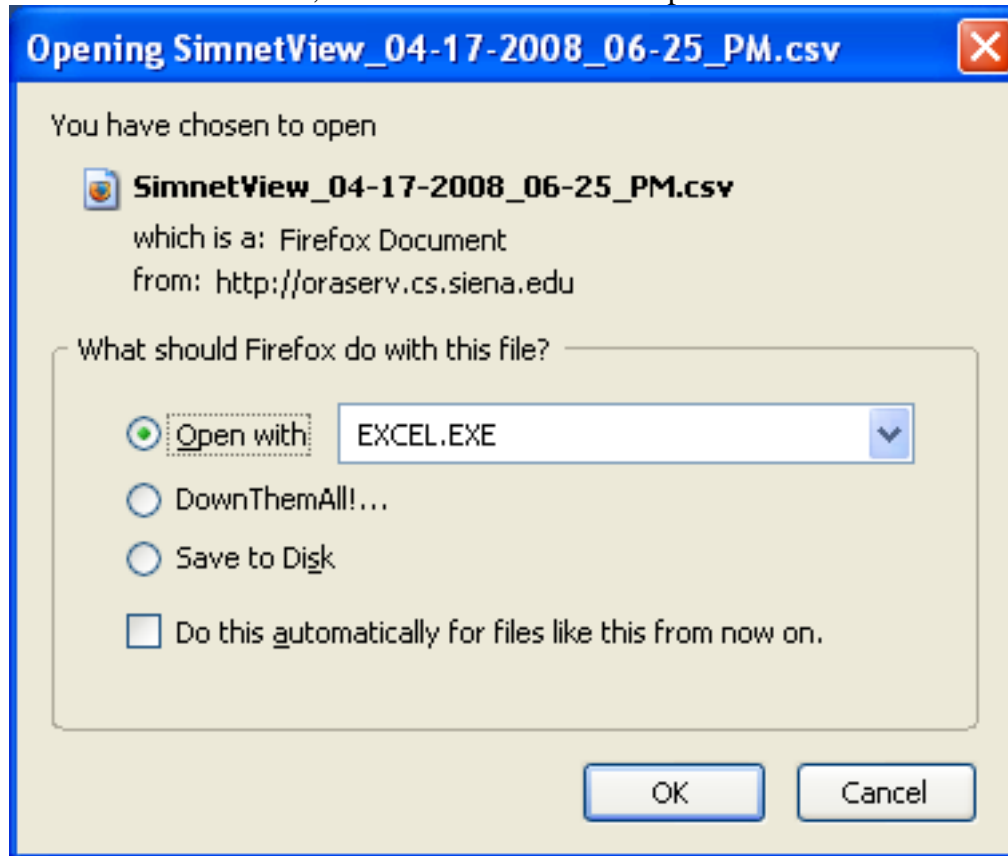
Copies: Number of copies: 1
 Collate

Print Frames:
 As laid out on the screen
 The selected frame
 Each frame separately

Buttons: OK, Cancel

4.21 Export Dialogue Box (Administrators Only):

This export dialogue box will appear if the administrator chooses to print a report. They select what they would like to do with it; open in excel, download it or save it and press “OK.”



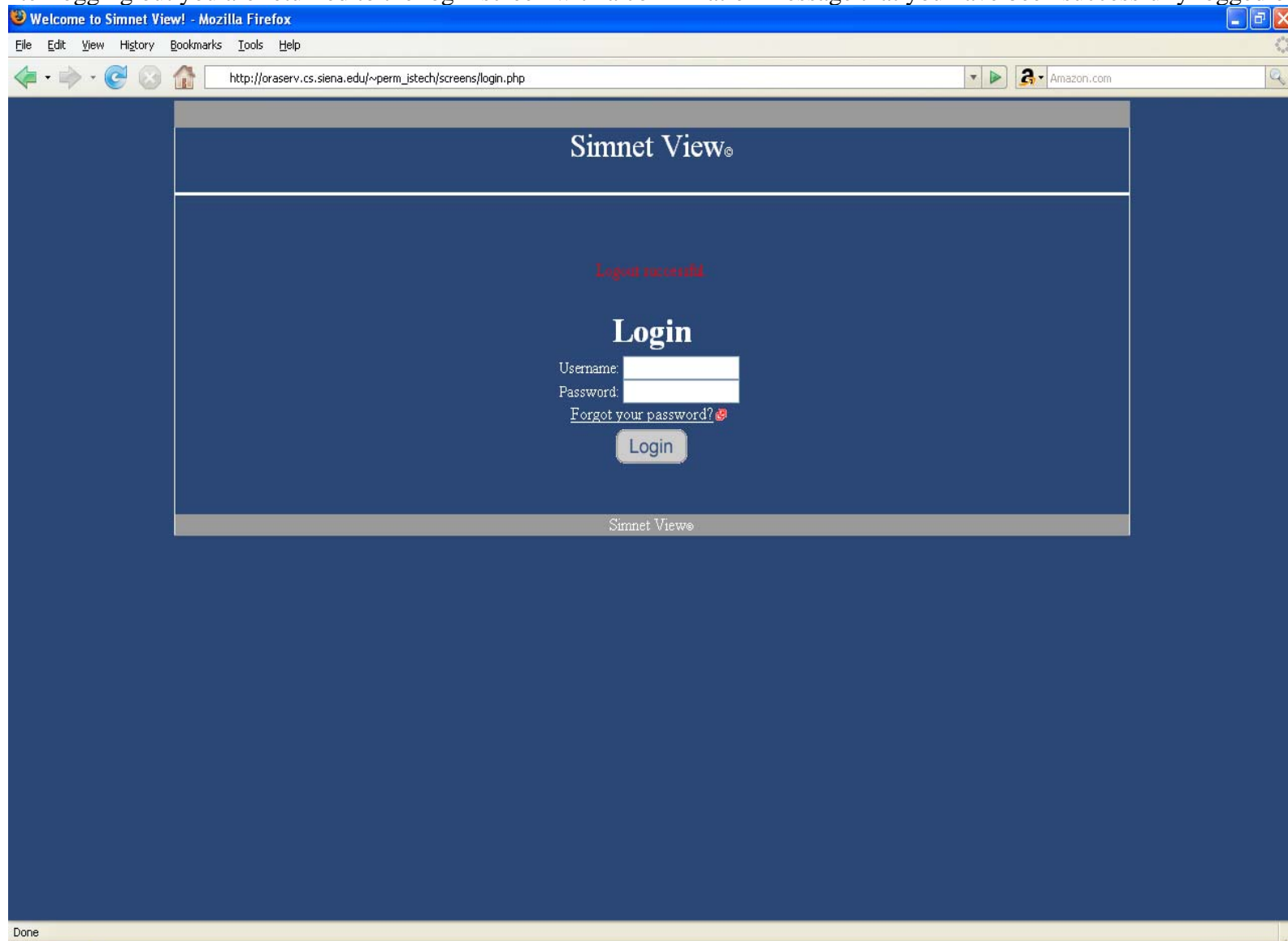
4.22 Administrator Manage Files:

Administrators have the capabilities of organizing and managing the folders and files. On the Manage Files screen a directory is displayed listing all the folders and files in which they can add, delete, move or copy folders and files or generate a new report.

The screenshot shows a web browser window displaying the Simnet View Administrator Manage Files interface. The browser's address bar shows the URL: `http://oraserv.cs.siena.edu/~perm_istech/SimnetView/home.php?ManageFiles`. The page title is "Simnet View®" and the subtitle is "Administrator: Manage Files". The interface includes a navigation bar with links for "Home", "Manage Account/Password", and "Manage Files", along with a "Log Out" button. Below the navigation bar, there are several action buttons: "Copy", "Refresh", "Rename", "New Folder", "Delete", and "Generate Report". The main content area is divided into two columns. The left column, titled "Original XML Files", contains a list of folders: "fall05Exams", "fall06Exams", "spring05Exams", "spring06Exams", "spring07Exams", "summer04Exams", "summer05Exams", "summer06Exams", and "summer07Exams". The right column, titled "New XML Files", contains a single folder: "fall05Exams". A vertical bar with arrows is positioned between the two columns, indicating a move or copy operation. On the left side of the interface, there is a "View By" section with dropdown menus for "Year", "Session", "Course", and "Section", and a "Clear" button. The footer of the page contains the text "Simnet View®" and "InnoSmart Technologies® 2007-2008".

4.23 Logout:

After logging out you are returned to the login screen with a confirmation message that you have been successfully logged out.



V. Test Plan Results

All test results can be found in the Test Results document which can be found on the InnoSmart Technologies documents page. The url listed below will also take you there.

http://oraserv.cs.siena.edu/~perm_istech/documents/testPlanResults.htm

VI. Appendix

6.1 Sources of Information

Information for the development of Simnet View was provided by our clients Ms. Cotler and Dr. Lederman of the Computer Science Department at Siena College. Other information was also obtained from the textbook for this course, Software Engineering: A Practitioners Approach by Roger S. Pressman. We have also collected additional information from open source code.

6.2 Deliverables

The deliverables for Simnet View include a CD with all of our documents as well as all of the files for the team website and finished application. We will also deliver a hard copy of all documents and the directions on how to use Simnet View.

6.3 Glossary of Terms

Code - The symbolic arrangement of data or instructions in a computer program or the set of such instructions.

Database - A collection of data arranged for ease and speed of search and retrieval.

DBMS (Database Management System) - Software that controls the organization, storage, retrieval, security and integrity of data in a database.

Gantt Chart - A chart that depicts progress in relation to time, often used in planning and tracking a project.

GB (Gigabyte) - 1000 Megabytes, 1 Million Kilobytes, 1 Billion Bytes. A typical unit of measurement for the size of memory in a computer.

HTML (Hyper Text Markup Language) – A markup language used to structure text and multimedia documents and to set up hypertext links between documents, used extensively on the World Wide Web.

Internet - An interconnected system of networks that connects computers around the world via the TCP/IP protocol.

Linear Sequential Model / Classic Waterfall Model – A systematic, sequential approach to software development that begins at the system level and progresses through analysis, design, coding, testing, and support.

MHz (Mega Hertz) – Measurement used to measure clock speed on the processor. One hertz simply means one cycle per second.

Microsoft Excel - is a spreadsheet application that features many calculation and graphing tools.

PC (Personal Computer) - Another name for a microcomputer designed for use by a single user.

PHP (PHP Hypertext Preprocessor) – A server-side, cross-platform, HTML-embedded scripting language used to create dynamic web pages. PHP is open source software.

RAM (Random Access Memory) - Usually known by its acronym, RAM (pronounced same as the animal), is a type of computer data storage. It takes the form of integrated circuits that allow the stored data to be accessed in any order — that is, at random and without the physical movement of the storage medium or a physical reading head. RAM is a volatile memory as the information or instructions stored in it will be lost if the power is switched off.

Simnet – Proprietary software which enables professors to create and offer tests on Microsoft Office applications and then view the results.

Software - Written programs or procedures or rules and associated documentation pertaining to the operation of a computer system and that are stored in read/write memory.

SQL (Structured Query Language) - Pronounced "sequel", it is a language that provides an interface to relational database systems.

XML – Extensible Markup Language is a general-purpose markup language. It is classified as an extensible language because it allows its users to define their own tags.

6.4 Gantt Chart (Timeline)

