

WELCOME

to the Detailed Design Presentation

Ms. Kate Zimmerman, Siena
College Academic Program
Administrator

&

Mr. Brian Smith, Siena College
Webmaster

Spartacus Computing Solutions

Siena College Catalog Project

Presented by:

Michael Cervone, *Introduction & Conclusion*

Tom Hackett, *User Interface*

Sean Hannon, *Data Structures*

John Sawicki, *Testing Plan*

Presentation Outline

- **User Interface**
- Data Structures
- Test Plan

Login Screen

The screenshot shows a Microsoft Internet Explorer browser window. The title bar reads "Siena College - Catalog Program Homepage - Microsoft Internet Explorer". The address bar contains the URL "http://ares.cs.siena.edu/~ccsis410/2004/spartacus/prototype/login.html". The main content area has a green background with the "SIENAc college" logo at the top left. A navigation menu includes "Home", "About Siena", "Academics", "News", "Student Life", and "Search". A white rounded rectangle in the center contains the login form:

Siena College Catalog Program

Members only. Please login to access the College Catalog.

Username:

Password:

Page last edited: Thursday November 18, 2004
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The browser's taskbar at the bottom shows the "start" button, a taskbar icon for "Siena College - Catal...", and the system tray with the time "9:50 PM".


Academic Affairs Screens

Siena College - Catalog Program - Academic Affairs Homepage - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media

Address <http://ares.cs.siena.edu/~vcis410/2004/spartacus/prototype/academicaffairs1.html> Go Links

 **SIENACollege**

Home About Siena Academics News Student Life Search

Academic Affairs

[Create or Edit Users](#)
[Check User Progress](#)
[Edit Catalog](#)
[Generate Publisher's Copy](#)
[View Current Catalog](#)

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start Siena College - Catal... Internet 9:52 PM


Academic Affairs Screens

Siena College - Catalog Program - Academic Affairs - Create/Edit User - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media

Address <http://ares.cs.siena.edu/~ccsis410/2004/spartacus/prototype/edituser.html> Go Links

 **SIENAcollege**

Home About Siena Academics News Student Life Search

Create/Edit User

[Create New User](#)
[Edit Existing User](#)
[Remove User](#)

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start Siena College - Catal... Internet 9:52 PM

Academic Affairs Screens

SIENACollege
Home About Siena Academ

Create User

User Name:

User Password:

User Email:

User Title:

User Office/Dept:

Permissions:

[Siena College](#) [School of Science](#) [Financial Aid](#)

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School of Science Permissions

Biology

Edit Professor Info

Edit General Info

View Course Descriptions

Chemistry

Edit Professor Info

Edit General Info

View Course Descriptions

Computer Science

Edit Professor Info

Edit General Info

View Course Descriptions

Academic Affairs Screens

The screenshot shows a Microsoft Internet Explorer browser window displaying the Siena College Academic Affairs Edit User page. The browser's address bar shows the URL: <http://ares.cs.siena.edu/~ncsis410/2004/spartacus/prototype/edit.html>. The page features a green header with the Siena College logo and navigation links: Home, About Siena, Academics, News, Student Life, and Search. The main content area is white and contains the following text:

Edit User

Academic Affairs
Administrator: [Kate Zimmerman](#)

Enrollment and Planning
Vice President: [Noel Hogan](#)

School of Science
Assistant Dean: [Angela McKeever](#)

Computer Science
Department Head: [Scott Vandenberg](#)

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The browser's taskbar at the bottom shows the Start button, a taskbar with the Siena College - Catalog Program window, and the system tray with the Internet icon and the time 9:54 PM.

Academic Affairs Screens

The screenshot shows a Microsoft Internet Explorer browser window. The title bar reads "Siena College - Catalog Program - Academic Affairs - Remove User - Microsoft Internet Explorer". The address bar contains the URL "http://ares.cs.siena.edu/~vcsis410/2004/spartacus/prototype/remove.html". The browser's navigation bar includes buttons for Back, Forward, Stop, Home, Search, Favorites, Media, and Print. The main content area has a green background with the "SIENACollege" logo and a navigation menu with links for Home, About Siena, Academics, News, Student Life, and Search. A white rounded rectangle contains the "Remove User" form. The form has a "User Name:" label and a dropdown menu currently showing "Choose User to Remove". A list of names is visible below the dropdown: "Remove U", "Choose User to Remove", "Noel Hogan", "Angela McKeever", "Scott Vandenberg", and "Kate Zimmerman". Below the form, there is a red timestamp "Page last edited: Thursday December 2, 2004", a contact email "website@siena.edu", and a copyright notice "Siena College 2004 © - Disclaimer". The browser's status bar at the bottom shows "Done" and "Internet".

Siena College - Catalog Program - Academic Affairs - Remove User - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print

Address http://ares.cs.siena.edu/~vcsis410/2004/spartacus/prototype/remove.html Go Links

SIENACollege

Home About Siena Academics News Student Life Search

Remove User

User Name: Choose User to Remove

Remove U Choose User to Remove
Noel Hogan
Angela McKeever
Scott Vandenberg
Kate Zimmerman

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Done Internet

Academic Affairs Screens

Siena College - Catalog Program - Academic Affairs - User Progress - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media

Address <http://ares.cs.siena.edu/~csis410/2004/spartacus/prototype/progress.html> Go Links

SIENACollege

Home About Siena Academics News Student Life Search

User Progress

Click on names to email reminder.

Academic Affairs	
Administrator: Kate Zimmerman	Progress: INCOMPLETE
Enrollment and Planning	
Vice President: Noel Hogan	Progress: INCOMPLETE
School of Science	
Assistant Dean: Angela McKeever	Progress: INCOMPLETE
Computer Science	
Department Head: Scott Vandenberg	Progress: COMPLETE

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Done Internet

start Siena College - Catal... ScreenShots for Prelim 9:59 PM

Academic Affairs Screens

Siena College - Catalog Program - Angela McKeever - Review/Edit Changes - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites Media

Address <http://ares.cs.siena.edu/~vcis410/2004/spartacus/prototype/editcatalog.html> Go Links

SIENAcollege

Home About Siena Academics News Student Life Search

Review/Edit Changes

Select User

- Select User
- Edit Directory Information
- Noel Hogan
- Angela McKeever
- Scott Vandenberg

December 2, 2004

[a.edu](#) for questions regarding this page.

mer

Internet

Academic Affairs Screens

College Catalog Text Editor - Microsoft Internet Explorer

Address: <http://www.cs.siena.edu/~vcis410/2004/spartacus/oraserv/test.php>

College Catalog Text Editor

Directory

The Board of Trustees

Joseph M. Pastore, Jr., Ph.D., Pleasantville, New York, *Chair*
John J. Nigro, Albany, New York, *Vice Chair*
James J. Barba '66, Albany, New York
J. Patrick Barrett '59, Manlius, New York
Michael Bucci '73, Victor, New York

Submit

Done Internet Local intranet

Academic Affairs Screens

College Catalog Text Editor

Directory

The Board of Trustees

Joseph M. Pastore, Jr., Ph.D., Pleasantville, New York, *Chair*

John J. Nigro, Albany, New York, *Vice Chair*

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J. Patrick Barrett '59, Manlius, New York

Michael Bucci '73, Victor, New York

Very Rev. Robert M. Campagna, O.F.M., New York, New York

Beverly A. Carroll, Washington, D.C.

Robert T. Cushing '77, Schenectady, New York

Mae A. D'Agostino '77, Menands, New York

Virginia Darrow '83, New York, New York

Scott C. Donnelly, Niskayuna, New York

Very Rev. John M. Felice, O.F.M., New York, New York

Michael C. Finnegan '78, New York, New York

Howard S. Foote '74, Albany, New York

Submit

Directory

The Board of Trustees People

Joseph M. Pastore, Jr., Ph.D., Pleasantville, ~~New York, Chair~~

John J. Nigro, Albany, New York, ~~Vice Chair~~

James ~~Johnathan~~ Barba '66, Albany, New York

J. Patrick Barrett '59, Manlius, New York

Michael Bucci '73, Victor, New York

Very Rev. Robert M. Campagna, O.F.M., New York, New York

Beverly A. Carroll, Washington, ~~D.C.~~

Robert T. Cushing '77, Schenectady, New York

Mae A. D'Agostino '77, Menands, New York

Virginia Darrow '83, New York, New York

Scott C. Donnelly, Niskayuna, New York

Very Rev. John M. Felice, O.F.M., New York, New York

Department Head Screens

The screenshot shows a Microsoft Internet Explorer browser window. The title bar reads "Siena College - Catalog Program - Scott Vandenberg Homepage - Microsoft Internet Explorer". The address bar contains the URL "http://ares.cs.siena.edu/~csis410/2004/spartacus/prototype/depthead.html". The browser's menu bar includes "File", "Edit", "View", "Favorites", "Tools", and "Help". The toolbar contains icons for Back, Forward, Stop, Home, Search, Favorites, Media, and other utilities. The main content area displays the Siena College website with a green background. The header features the Siena College logo and navigation links: "Home", "About Siena", "Academics", "News", "Student Life", and "Search". The main content area is a white rounded rectangle containing the following text:

Scott Vandenberg

[Edit Faculty Information](#) Complete:

[Edit Department Information](#) Complete:

[View Course Descriptions](#)

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The browser's status bar at the bottom shows the Windows Start button, the current page title "Siena College - Catal...", the Internet icon, and the system clock displaying "9:56 PM".

Department Head Screens

The screenshot shows a Microsoft Internet Explorer window titled "College Catalog Text Editor - Microsoft Internet Explorer". The address bar shows the URL: <http://www.cs.siena.edu/~vcis410/2004/spartacus/oraserv/test.php>. The main content area has a green background and is titled "College Catalog Text Editor".

Computer Science Department

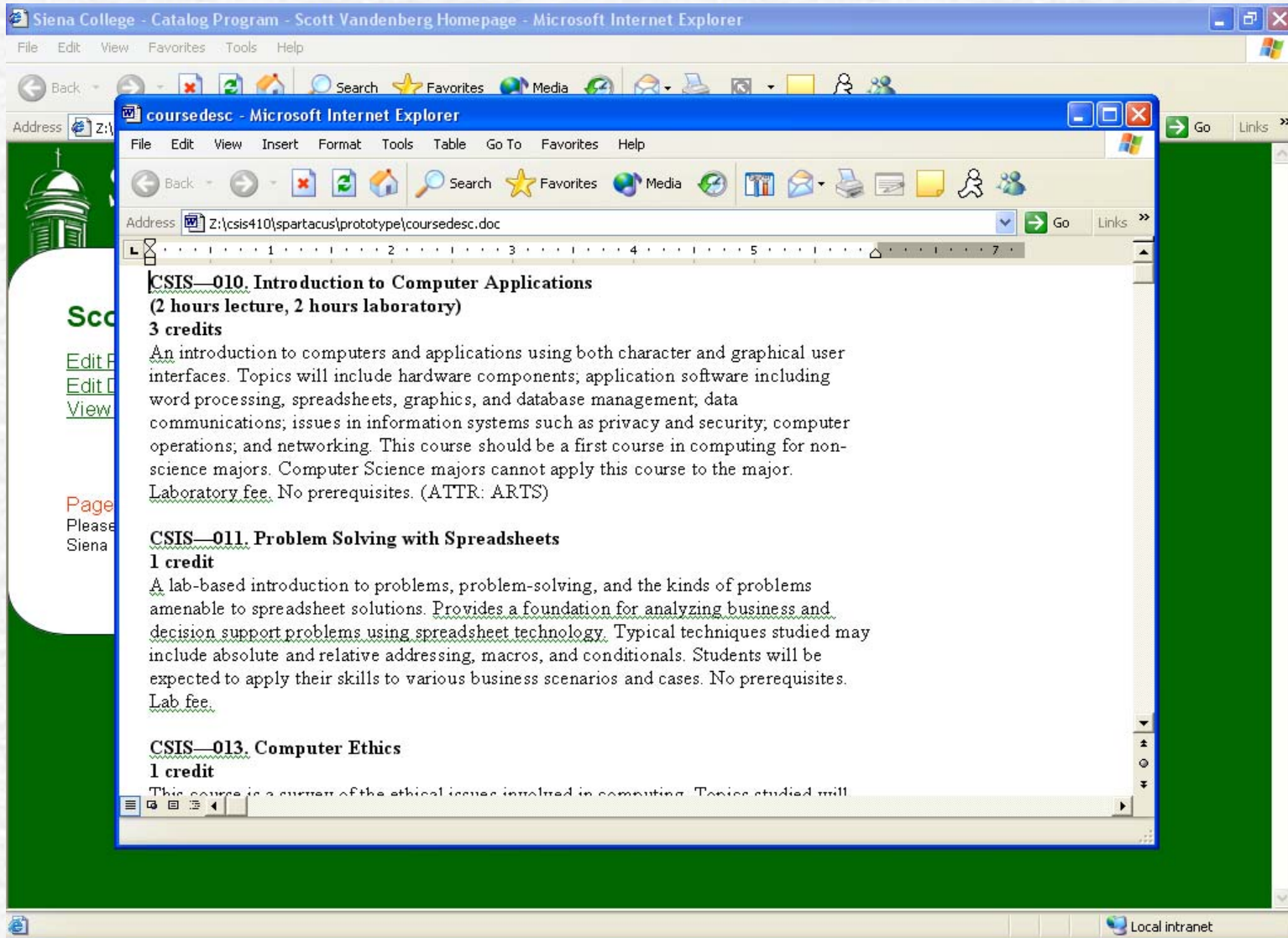
Head: Dr. Scott Vandenberg, Assoc. Prof.
Prof.: Mr. James R. Matthews, Dr. Timothy C. Lederman, Dr. James R. Nolan (Administrative leave, 2004-2005), Dr. Leonard Putnick
Assoc. Prof.: Dr. Mary Anne Egan (Sabbatical leave, 2004-2005), Dr. Robin Flatland
Asst. Prof.: Dr. Eric Breimer, Ms. S. Johanna Horowitz, Dr. Scott Hunter, Dr. Darren Lim, Dr. Robert Yoder

Computer Scientific Department

Head: Dr. Scott Vandenberg, Assoc. Prof-essor
Prof.: Mr. James R. Matthews, Dr. Timeth C. Lederman, Dr. James R. Nolan (Administrative leave, 2004-2005), Dr. Leonardn Putnick
Assoc. Prof.: Dr. Mary Anne Egan (Sabbatical leave, 2004-2005), Dr. Robin Flatland
Asst. Prof.: Dr. Eric Breimer, Ms. S. Johanna Horowitz, Dr. Scott Hunter, Dr. Darren Lim, Dr. Robert Yoder

Submit

Department Head Screens




Assistant Dean Screens

Siena College - Catalog Program - Angela McKeever Homepage - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media

Address <http://ares.cs.siena.edu/~csis410/2004/spartacus/prototype/asstdean.html> Go Links >>

 **SIENAcollge**

Home About Siena Academics News Student Life Search

Angela McKeever

[Edit School of Science General Information](#) Complete:

[Review/Edit Changes](#) Complete:

[View Progress](#)

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Internet


Assistant Dean Screens

Siena College - Catalog Program - Angela McKeever - School of Science Progress - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media

Address <http://ares.cs.siena.edu/~csis410/2004/spartacus/prototype/deptprog.html> Go Links

 **SIENA**college

Home About Siena Academics News Student Life Search

School of Science Progress

Click on names to email reminder.

Computer Science

Department Head: [Scott Vandenberg](#) Progress: [COMPLETE](#)

Page last edited: Thursday December 2, 2004

Please contact website@siena.edu for questions regarding this page.

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start Siena College - Catal... Internet 10:01 PM

Assistant Dean Screens

Siena College - Catalog Program - Angela McKeever - Review/Edit Changes - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media

Address <http://ares.cs.siena.edu/~vcsis410/2004/spartacus/prototype/changes.html> Go Links

SIENAcollege

Home About Siena Academics News Student Life Search

Review/Edit Changes

Select User
Select User
Scott Vandenberg

Thursday December 2, 2004

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start Siena College - Catal... Internet 10:02 PM

Assistant Dean Screens

The screenshot shows a Microsoft Internet Explorer browser window. The title bar reads "Siena College - Catalog Program - Angela McKeever - Review/Edit Changes - Microsoft Internet Explorer". The address bar contains the URL "http://ares.cs.siena.edu/~csis410/2004/spartacus/prototype/vandenchanges.html". The browser's menu bar includes "File", "Edit", "View", "Favorites", "Tools", and "Help". The toolbar contains icons for "Back", "Forward", "Stop", "Home", "Search", "Favorites", "Media", "Print", "Refresh", "Stop", "Home", "Help", and "Links".

The main content area of the browser displays the Siena College website. At the top left is the Siena College logo, a dome-topped building. To its right, the text "SIENAcolllege" is written in a serif font. Below this is a navigation menu with the following items: "Home", "About Siena", "Academics", "News", "Student Life", and "Search".

The central part of the page is a white rounded rectangle with a green border. It contains the following text:

Review/Edit Scott Vandenberg's Changes

[Faculty Information](#) Complete:
[Department Information](#) Complete:

Page last edited: Thursday December 2, 2004
Please contact website@siena.edu for questions regarding this page.
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The browser's status bar at the bottom shows the "start" button, the current page title "Siena College - Catal...", and the system clock "10:03 PM".

Assistant Dean Screens

College Catalog Text Editor

Department Overview

The Computer Science program at Siena features excellent facilities, full-time dedicated faculty and a wide variety of educational and career opportunities. The program is oriented towards "hands on" computing in a small class environment. Laboratory experiences are an essential component of many courses, so that students can work closely with our faculty. Beginning with the first course, students develop their abilities to solve problems, analyze, synthesize, think critically and communicate. Many courses require group projects and intensive teamwork

Department Overview

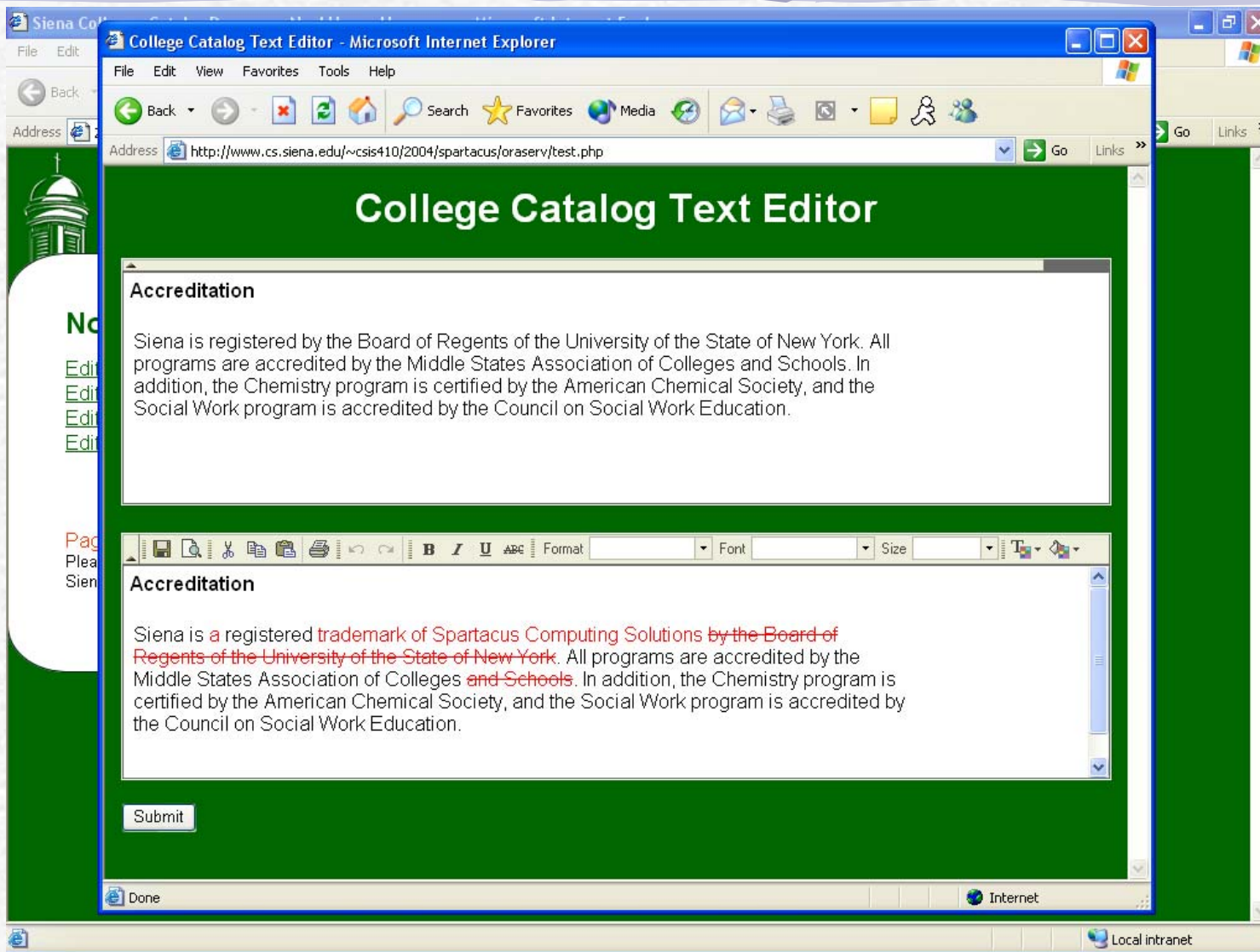
~~The~~ Computer ~~Science~~ programing at Siena features ~~excellent~~ amazing facilities, full-time dedicated faculty and a wide variety of educational and career opportunities. The program is oriented towards "hands-on" computing in a small class environment. ~~Laboratory~~ experiences are an essential component of many courses, so that students can work closely with our faculty. Beginning with the first course, students develop their abilities to solve problems, analyze, synthesize, think critically, and communicate. Many courses

Submit

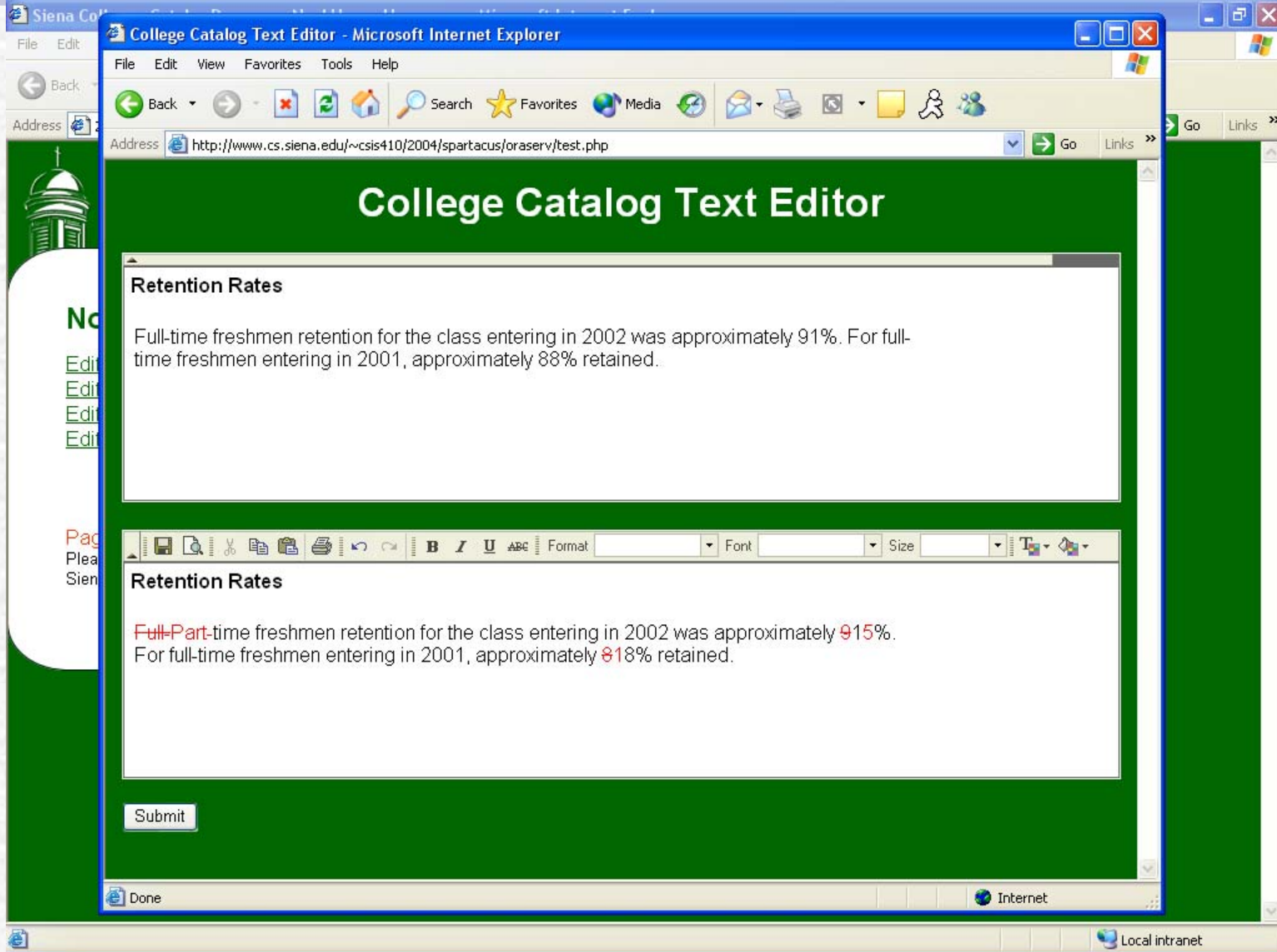
College Administrator Screens

The screenshot shows a Microsoft Internet Explorer browser window displaying the Siena College website. The browser's address bar shows the URL: <http://ares.cs.siena.edu/~vcis410/2004/spartacus/prototype/vpep.html>. The website has a green header with the Siena College logo and a navigation menu with links for Home, About Siena, Academics, News, Student Life, and Search. The main content area is a white rounded rectangle containing the name "Noel Hogan" and four links: "Edit Accreditation Information", "Edit Retention Rates Information", "Edit Admission to College Information", and "Edit Financial Aid Information". To the right of these links are four "Complete:" labels, each followed by an unchecked checkbox. Below these is a "Submit Changes" button. At the bottom of the white box, it says "Page last edited: Wednesday December 1, 2004" and provides contact information: "Please contact website@siena.edu for questions regarding this page. Siena College 2004 © - [Disclaimer](#)". The browser's taskbar at the bottom shows the Start button, a taskbar with "Siena College - Catal...", and the system tray with the Internet icon and the time "10:05 PM".

College Administrator Screens



College Administrator Screens



College Administrator Screens

College Catalog Text Editor

Financial Aid

Overview

Desiring to place a college education within the reach of all deserving, qualified degree candidates, Siena College has from its founding sponsored financial assistance in many forms. Financial aid to students is awarded primarily on the basis of need. The College gives consideration to scholastic ability in determining the amount of scholarships and grants awarded from College funding. Specifically, the College offers the following

Financial Aid

Overview

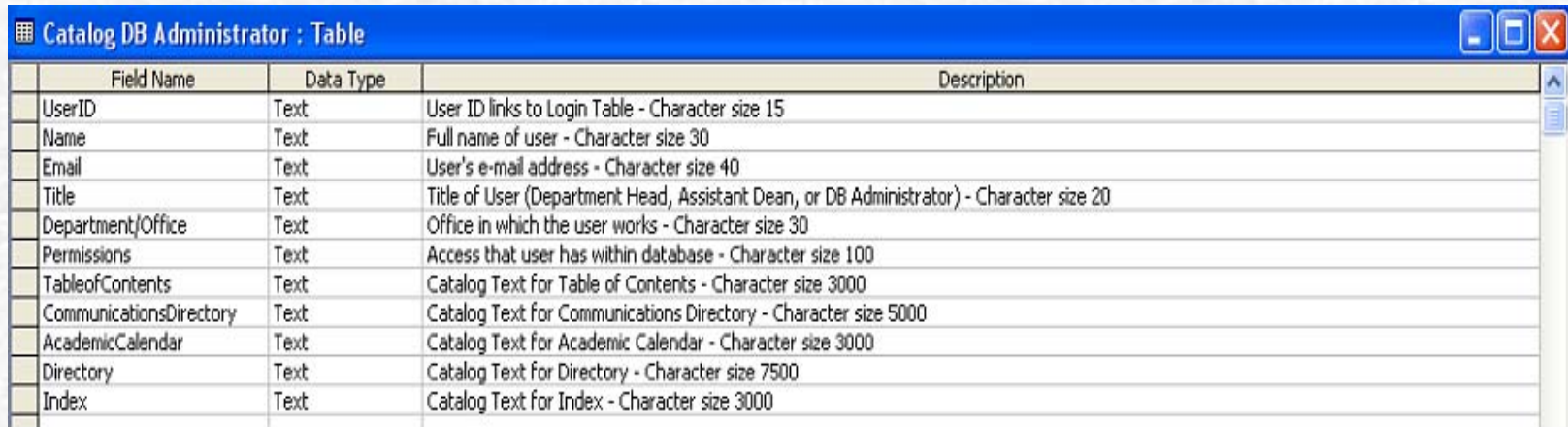
Desiring to place an college education within the reach of all undeserving, qualified degree candidates, Siena College has from its founding sponsored financial assistance in many forms. Financial aid to students is ereward primarily on the basis of need. The College gives consideration to scholastic ability in determining the amount of scholarships and grants awarded

Submit

Presentation Outline

- User Interface
- **Data Structures**
- Test Plan

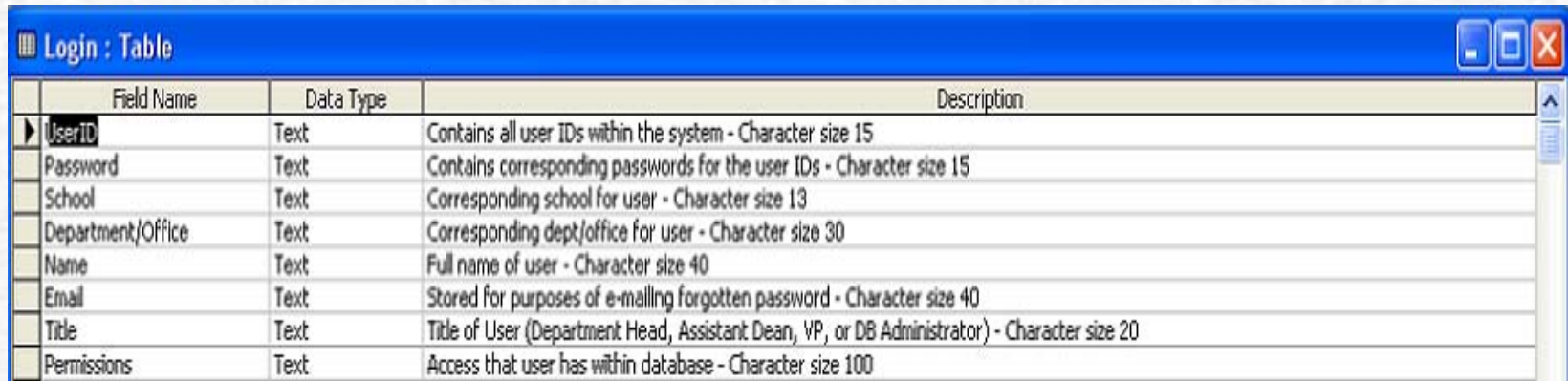
Catalog DB Administrator Table



Field Name	Data Type	Description
UserID	Text	User ID links to Login Table - Character size 15
Name	Text	Full name of user - Character size 30
Email	Text	User's e-mail address - Character size 40
Title	Text	Title of User (Department Head, Assistant Dean, or DB Administrator) - Character size 20
Department/Office	Text	Office in which the user works - Character size 30
Permissions	Text	Access that user has within database - Character size 100
TableofContents	Text	Catalog Text for Table of Contents - Character size 3000
CommunicationsDirectory	Text	Catalog Text for Communications Directory - Character size 5000
AcademicCalendar	Text	Catalog Text for Academic Calendar - Character size 3000
Directory	Text	Catalog Text for Directory - Character size 7500
Index	Text	Catalog Text for Index - Character size 3000

- All information for Catalog DBA, plus sections that are only editable by DBA
- DBA has access to all other tables for editing as well

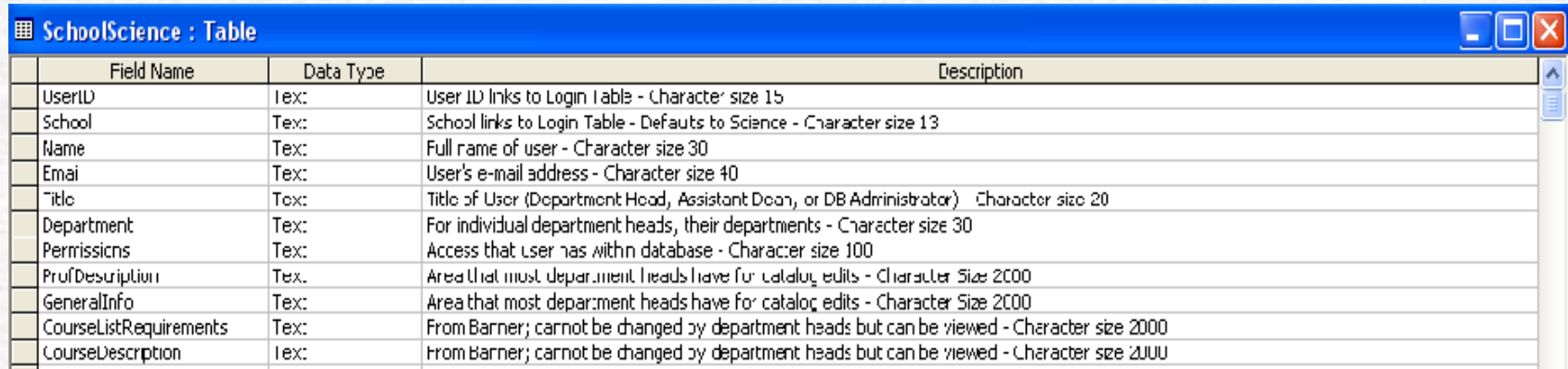
Login Table



Field Name	Data Type	Description
UserID	Text	Contains all user IDs within the system - Character size 15
Password	Text	Contains corresponding passwords for the user IDs - Character size 15
School	Text	Corresponding school for user - Character size 13
Department/Office	Text	Corresponding dept/office for user - Character size 30
Name	Text	Full name of user - Character size 40
Email	Text	Stored for purposes of e-malling forgotten password - Character size 40
Title	Text	Title of User (Department Head, Assistant Dean, VP, or DB Administrator) - Character size 20
Permissions	Text	Access that user has within database - Character size 100

- Contains all info for all users that is entered upon creation of the user
- Includes UserID, password, school (if applicable), department/office (if applicable), name, title, e-mail address, and list of permissions
- Links to appropriate table from the UserID, title, school, and department/office

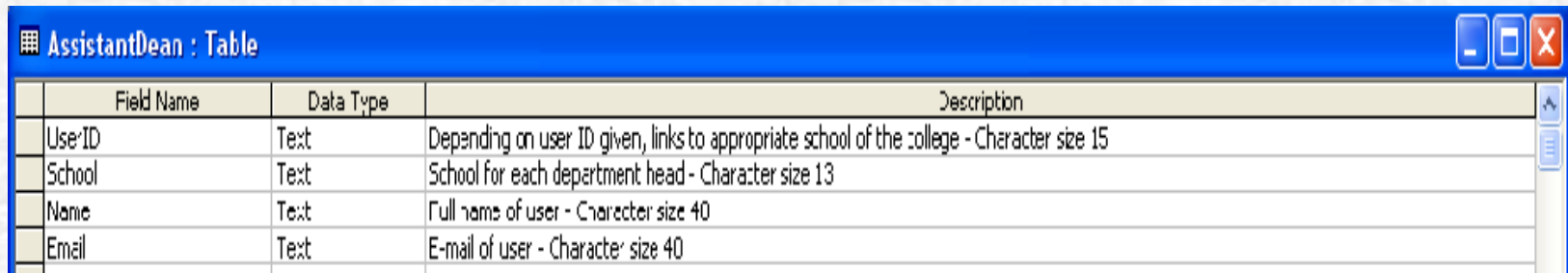
Example of Dept. Heads (by School) Table



Field Name	Data Type	Description
UserID	Tex:	User ID links to Login Table - Character size 15
School	Tex:	School links to Login Table - Defaults to Science - Character size 13
Name	Tex:	Full name of user - Character size 30
Email	Tex:	User's e-mail address - Character size 40
Title	Tex:	Title of User (Department Head, Assistant Dean, or DB Administrator) - Character size 20
Department	Tex:	For individual department heads, their departments - Character size 30
Permissions	Tex:	Access that user has with database - Character size 100
ProfDescription	Tex:	Area that most department heads have for catalog edits - Character Size 2000
GeneralInfo	Tex:	Area that most department heads have for catalog edits - Character Size 2000
CourseListRequirements	Tex:	From Banner; cannot be changed by department heads but can be viewed - Character size 2000
CourseDescription	Tex:	From Banner; cannot be changed by department heads but can be viewed - Character size 2000

- School of Science Table
- Contains fields for User identification and fields for parts of catalog required for editing
- Tables for Schools of Business and Liberal Arts also included in database

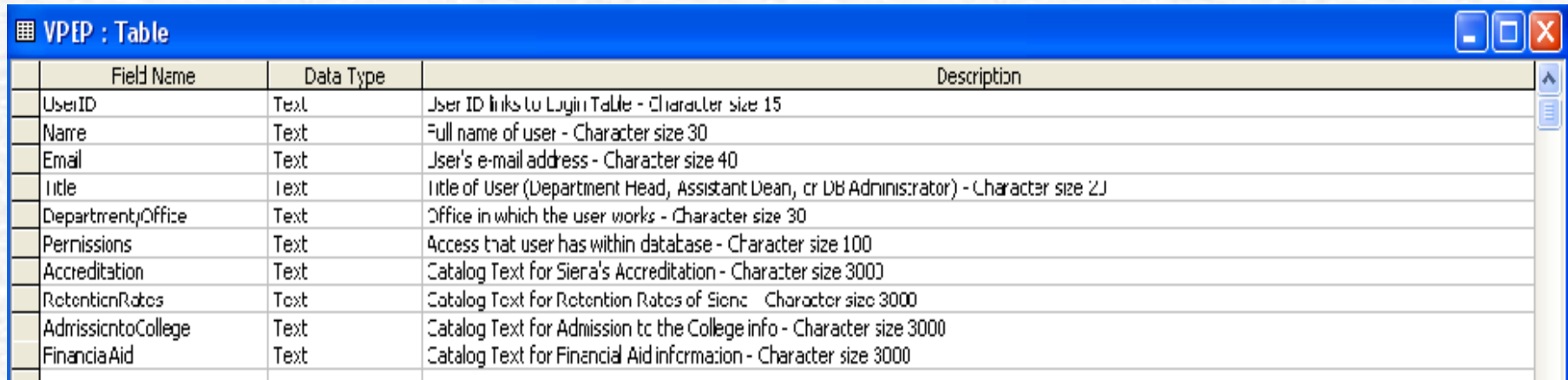
Assistant Dean Table



Field Name	Data Type	Description
UserID	Text	Depending on user ID given, links to appropriate school of the college - Character size 15
School	Text	School for each department head - Character size 13
Name	Text	Full name of user - Character size 40
Email	Text	E-mail of user - Character size 40

- Links to appropriate school table via “UserID” and “School” fields
- By being located in this field, Assistant Dean has access to all editable fields in School’s table

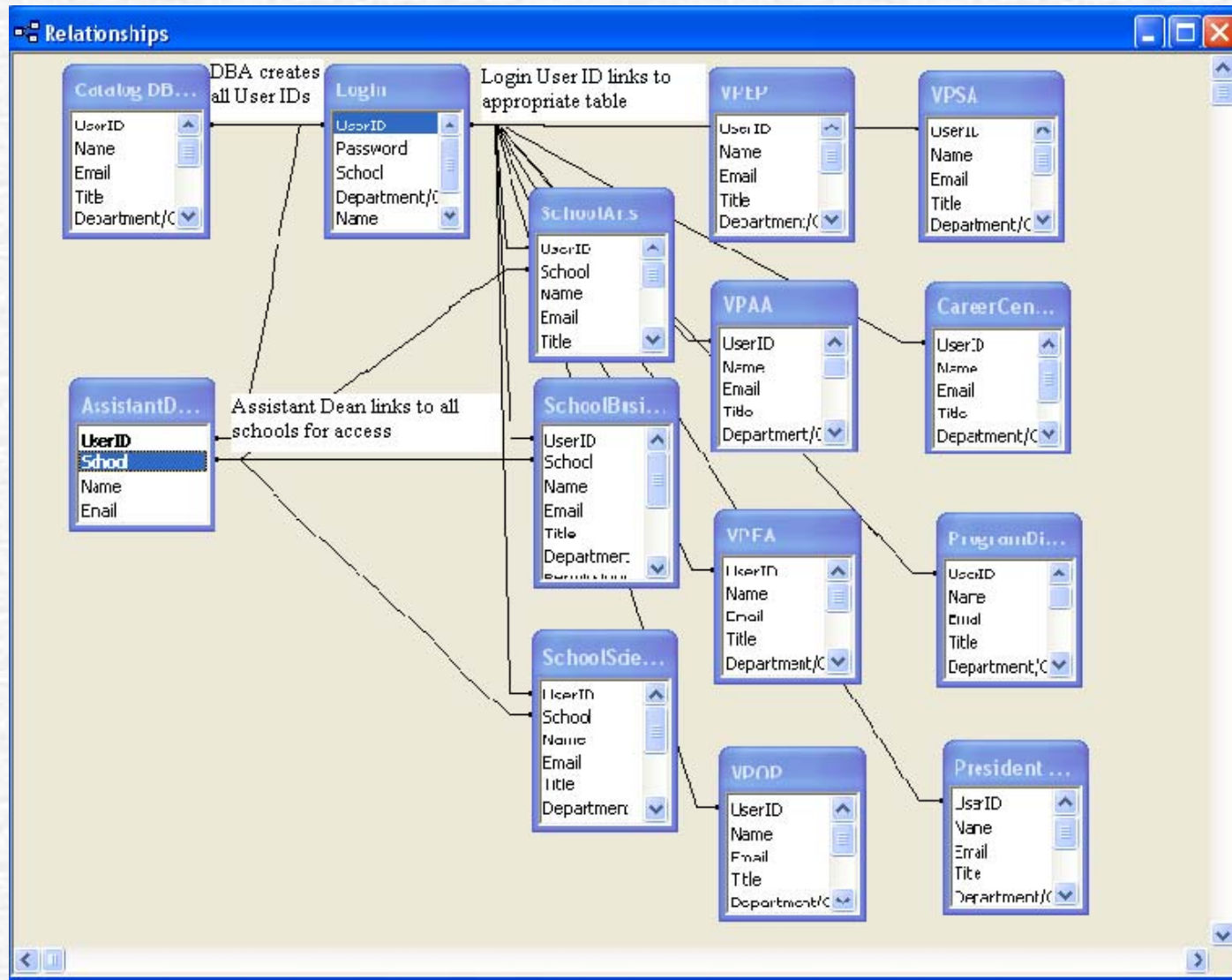
Example of College VP Tables



Field Name	Data Type	Description
UserID	Text	User ID links to Login Table - Character size 15
Name	Text	Full name of user - Character size 30
Email	Text	User's e-mail address - Character size 40
Title	Text	Title of User (Department Head, Assistant Dean, or DB Administrator) - Character size 25
Department/Office	Text	Office in which the user works - Character size 30
Permissions	Text	Access that user has within database - Character size 100
Accreditation	Text	Catalog Text for Siera's Accreditation - Character size 3000
RetentionRates	Text	Catalog Text for Retention Rates of Siera - Character size 3000
AdmissicntoCollege	Text	Catalog Text for Admission to the College info - Character size 3000
FinanciaAid	Text	Catalog Text for Financial Aid information - Character size 3000

- Table for Vice President of Enrollment Planning (Noel Hogan)
- Contains user information and sections of catalog required for user to edit
- Also includes tables for VPAA, VPFA, VPOP, and VPSA

Relationship Diagram



File Naming Convention

- For editable catalog text:

FieldName_UserID_TimestampWithDate.txt

- Timestamp allows user to edit multiple times and open the most recently edited version

Presentation Outline

- User Interface
- Data Structures
- **Test Plan**

What will be Tested?

Banner Database

- Connection
- Retrieval
- Integrity

Catalog Database

- Connection
- Retrieval
- Storage

GUI

Program Modules

- Database Interaction
- User Interaction
- Performance of Correct Actions

Testing Example

Academic Affairs' Administrator (i.e. Ms. Zimmerman)-

Administrator Home Page:

<i>Test Case</i>	<i>Expected Result</i>	Pass/Fail
Click on "Create or Edit Users" link	"Create/Edit User" page opens	
Click on "Check User Progress" link	"User Progress" page opens	
Click on "Edit Catalog" link	"Review/Edit Changes" page opens	
Click on "Generate Publisher's Copy" link	Creates text document of catalog to be sent to publisher	
Click on "View Current Catalog" link	Opens PDF copy of current year's catalog	

Department Heads-

Specific Department Head's Page:

<i>Test Case</i>	<i>Expected Result</i>	Pass/Fail
"Edit Faculty Information" link clicked	Opens Editable Page of faculty information	
"Edit Department Information" link clicked (Link option not available for all department heads)	Opens Editable Page of department information	
"View Course Descriptions" link clicked	Opens read-only .doc version of the particular department's course descriptions	
"Complete" check boxes	If clicked, marks boxes as checked	
"Submit Changes" button clicked	Message box pops up saying "Changes Submitted" Sections marked complete by check box are updated as complete on this page, as well as on Academic Affairs' Administrator (i.e. Ms. Zimmerman) "User Progress" page	
"Changes Submitted" message box pops up - click "OK"	Redirects user to [Specific Department Head's] home page	

SPR Form

SPR Form

SPR # _____

Name of individual(s) who identified problem: _____

Date problem was identified: / / 05

Time problem was identified: _____: _____ AM / PM

Issue:

Initials: _____

Possible Solution:

Initials: _____

Actual Solution:

Initials: _____

Person(s) that implemented solution: _____

Date solution was implemented: / / 05

Time solution was implemented: _____: _____ AM / PM

Amount of time spent on problem solution: Days Hours Minutes

Exception Testing

- We will be performing exception testing to make sure that the program properly handles negative situations which may arise. This will help ensure that no data is lost or corrupted due to loop-holes in the program or possible user error. The testing will aim to test possible exceptions to the different units. One such example of a possible exception test is trying to create a user that already exists.

More Testing

✓ Approach

- Unit Testing
- Integration Testing

✓ Pass/Fail Criteria

- Does it do what its supposed to do?
- Does it do it in a reasonable amount of time?
- Is the data correct?
- Are there any errors?
- Is the output displayed correctly?

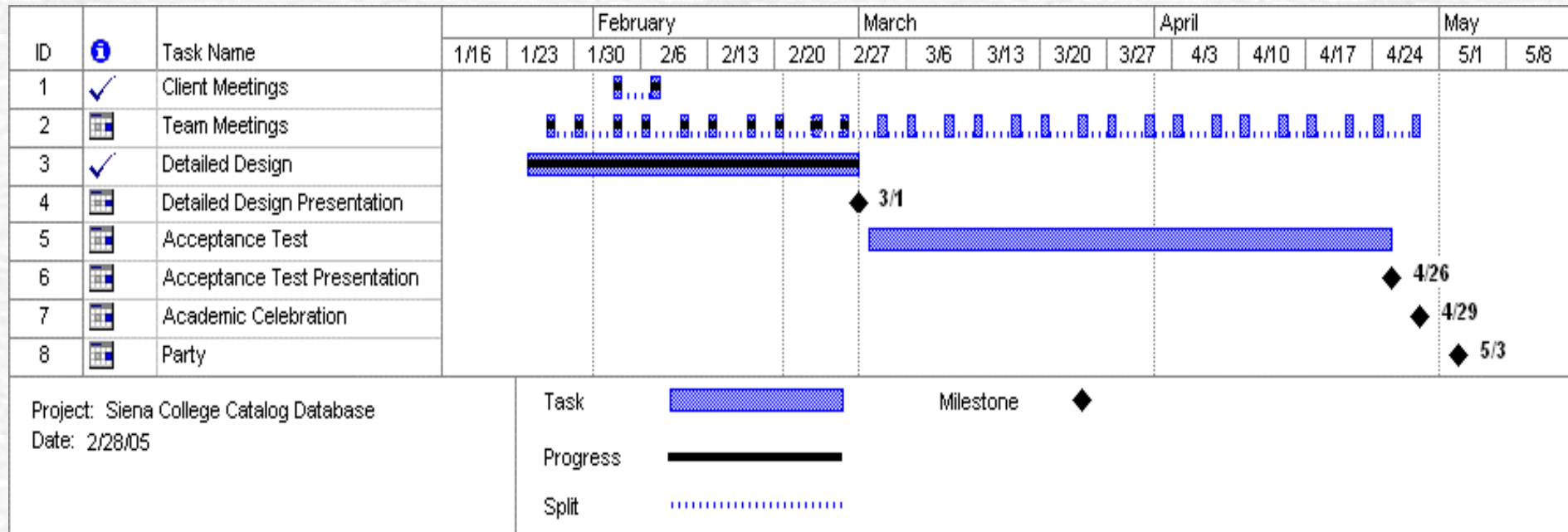
✓ Test Deliverables

- SPR
- Summary

✓ User Training

- Hands-on Training
- Help Manuals

Gantt Chart



Future Plans

☛ Schedule:

- Design & Testing
- April 26 – Acceptance Test
- April 29 – Academic Celebration
- May 3 – Party!!!

Questions?

Thank You!