Pear Software
http://oraserv.cs.siena.edu/~perm_pear/

e-SATA
(The Electronic Spreadsheet Automated Teaching Assistant)

Preliminary Design
Welcome

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Agenda

• Introduction – Matt Restivo
• Data Flows & Dictionaries – James Rocco
• Database Design – Justin Valentini
• Unit Testing – Colin Cubinski
• Prototype Screens – Dan Nakhla
• Going Forward... – Matt Restivo
Review of Problem

- Clients need easier way of grading Excel spreadsheets.
- Looking for automatic feedback of graded files.
- Ability to manage a students grades and attendance.
The Preliminary Design marks about the halfway point to completion of our project. It contains depictions of Data Flows, as well as Data Dictionaries and the design of the database.

The largest portion of the document is dedicated to screen shot prototypes in order for the client to gain a better understanding of how the program will be operated by a user.
Functional Requirements

• Changes to the Student account:
  – Login names will now be email addresses.
  – Can view their attendance records.
  – An email will be sent to the user should they forget their password.
  – Will have the ability to change lecture and lab sections.
  – Ability to download template lab files and submitted files.
Functional Requirements

• Changes to the Lab Instructor account:
  – Will no longer create their own account.
  – Will be prompted automatically to change their password upon first login.
  – Approve or Deny Students lab change requests.
Functional Requirements

• Changes to the Lecture Instructor account:
  – Will no longer create their own account.
  – Will be prompted automatically to change their password upon first login.
  – Approve or Deny Students lecture change requests.
Functional Requirements

- Changes to the **Course Administrator** account:
  - Can edit any field in any type of account.
  - Can create or edit any field in a lab or lecture.
  - Ability to view and sort tables of all types of users.
  - Manage template files.
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Data Flow Diagram Key

- SOURCES/SINKS
- DATA STORE
- USERS
- PROCESS
Context Diagram
Current Diagram is: **System - Level 1**

**Student**

**Location:** System - Level 1 (0)

**Input Flows:**
- Feedback
- New-Password

**Output Flows:**
- Password
- Assignment

**Description:** Will be given prompt feedback on Labs and Pre-labs. It will also allow for the submission of labs and pre labs.

---

**Unverified-Graded-Assignment**

**Location:** System - Level 1 (0)

**Source:** Manage Web Based User Request (Process)

**Dest:** Lab Instructor (Source/Sink)

**Description:** Students graded lab done by e-SATA.
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Database Design
Agenda

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• Going Forward... – Matt Restivo
Testing

- Unit Testing
- Integration Testing
- System Testing
- Acceptance Test
## Unit Test Example

<table>
<thead>
<tr>
<th>Status Pass/Fail</th>
<th>Unit Number</th>
<th>Test Name</th>
<th>Field 1</th>
<th>Field 2</th>
<th>Field 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Test #1</td>
<td>Login Interface</td>
<td>Field 1</td>
<td>Field 2</td>
<td>Field 3</td>
<td></td>
</tr>
<tr>
<td>Unit Test #2</td>
<td>Student Interface (Default Screen)</td>
<td>Field 1</td>
<td>Field 2</td>
<td>Field 3</td>
<td></td>
</tr>
<tr>
<td>Unit Test #3</td>
<td>Unit Test Name</td>
<td>Field 1</td>
<td>Field 2</td>
<td>Field 3</td>
<td></td>
</tr>
<tr>
<td>Unit Test #4</td>
<td>Unit Test Name</td>
<td>Field 1</td>
<td>Field 2</td>
<td>Field 3</td>
<td></td>
</tr>
<tr>
<td>Unit Test #5</td>
<td>Unit Test Name</td>
<td>Field 1</td>
<td>Field 2</td>
<td>Field 3</td>
<td></td>
</tr>
</tbody>
</table>
## Unit Test Example

<table>
<thead>
<tr>
<th>Status Pass/Fail</th>
<th>Unit Number</th>
<th>Test Name</th>
<th>Field 1</th>
<th>Field 2</th>
<th>Field 3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.001</td>
<td>Login Interface</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Valid Login (Student User)</td>
<td>User Name</td>
<td>Password</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.002</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Valid Login (Lab Instructor User)</td>
<td>User Name</td>
<td>Password</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.003</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Valid Login (Lecture Instructor User)</td>
<td>User Name</td>
<td>Password</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.004</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Valid Login (Course Administrator User)</td>
<td>User Name</td>
<td>Password</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.005</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Invalid Login Information (User Name)</td>
<td>User Name</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.006</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Invalid Login Information (Password)</td>
<td>Password</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.007</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Password Recovery Screen Button</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Status Pass/Fail</th>
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<th>Field 1</th>
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<th>Field 3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Student Interface (Default Screen)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Unit Test Name</td>
<td>Field 1</td>
<td>Field 2</td>
<td>Field 3</td>
</tr>
<tr>
<td></td>
<td>Unit Test Name</td>
<td>Field 1</td>
<td>Field 2</td>
<td>Field 3</td>
</tr>
<tr>
<td></td>
<td>Unit Test Name</td>
<td>Field 1</td>
<td>Field 2</td>
<td>Field 3</td>
</tr>
<tr>
<td></td>
<td>Unit Test Name</td>
<td>Field 1</td>
<td>Field 2</td>
<td>Field 3</td>
</tr>
</tbody>
</table>
# Unit Test Example

## Test 1 - Login Interface (Main Login Screen and Password Recovery Screen)

<table>
<thead>
<tr>
<th>Unit Test #</th>
<th>Description of Test</th>
<th>Input</th>
<th>Expected Outcome</th>
<th>Pass/Fail</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.001</td>
<td>Valid Login (Student User)</td>
<td>The student user inputs the correct login information.</td>
<td>The student user's information processes correctly and they are brought to the student user homescreen.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.002</td>
<td>Valid Login (Lab Instructor User)</td>
<td>The lab instructor user inputs the correct login information.</td>
<td>The lab instructor user's information processes correctly and they are brought to the lab instructor user homepage.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.003</td>
<td>Valid Login (Lecture Instructor User)</td>
<td>The lecture instructor user inputs the correct login information.</td>
<td>The lecture instructor user's information processes correctly and they are brought to the lecture instructor user homepage.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.004</td>
<td>Valid Login (Course Administrator User)</td>
<td>The course administrator inputs the correct login information.</td>
<td>The course administrator user's information processes correctly and they are brought to the course administrator user homepage.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.005</td>
<td>Invalid Login Information (User Name)</td>
<td>The user types in an unregistered or mistaken user name.</td>
<td>A message will prompt the user, stating that their user name was incorrect/unrecognized, and to check for typos.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.006</td>
<td>Invalid Login Information (Password)</td>
<td>The user types in an unregistered or mistaken password.</td>
<td>A message will prompt the user, stating that their password was incorrect and does not match the user name provided, and to check for typos.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.007</td>
<td>Password Recovery Screen Button</td>
<td>The user clicks on the Password Recovery screen.</td>
<td>The Password Recovery screen is displayed.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Unit Test Example

<table>
<thead>
<tr>
<th>Unit Test #2</th>
<th>Description of Test</th>
<th>Input</th>
<th>Expected Outcome</th>
<th>Pass/Fail</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.001</td>
<td>Initial Display</td>
<td>The user has correctly provided their login information.</td>
<td>The main page for the student is displayed, defaulting to the view lab grade section of the student interface.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.002</td>
<td>Log Out Button</td>
<td>The user clicks on the Log Out button.</td>
<td>The student user is disconnected from the system and sent back to the login screen.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.003</td>
<td>Export to Excel Button</td>
<td>The user clicks on the Export to Excel button.</td>
<td>A spreadsheet record of the student's lab grades is sent to the user, prompting them to store it.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.004</td>
<td>View Graded Pre-Labs Button</td>
<td>The user clicks on the View Graded Pre-Labs button.</td>
<td>The user moves from the main page to the pre-lab grade display screen.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.005</td>
<td>Submit Lab/Pre-Lab Button</td>
<td>The user clicks on the Submit Lab/Pre-Lab button.</td>
<td>The user moves from the main page to the file submission screen.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.006</td>
<td>Feedback Button</td>
<td>The user clicks on the Log Out button.</td>
<td>The user moves from the main page to the feedback display screen.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Agenda

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Login Prototype Screen

![Login Prototype Screen](image.png)
An email with your password has been sent to the email provided. You should receive it shortly.
New User

New User

First Name: 
Last Name: 
E-mail: 
Password: 
Re-Type Password: 
Course: 
Lab Section: 
Lecture Section: 

Submit  Close
New User - Submitted

An email with your information has been sent to the provided email for your records and verification. You should receive it shortly.

Close
First Login for non-student
### Assignment 2

<table>
<thead>
<tr>
<th>File</th>
<th>Grade</th>
<th>Date Due</th>
<th>Date Submitted</th>
<th>Average Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>PreLab1</td>
<td>100</td>
<td>10/28/2006</td>
<td>10/26/2006</td>
<td>100</td>
</tr>
</tbody>
</table>

- [Show Feedback](#) [Download](#) [Export To Excel](#)
Student

User: Daniel Nakhla

Upload PreLab

Assignment: PreLab 2

Is this a Resubmission?  
[ ] Yes  [ ] No

Files:
- PreLab1.xls
- PreLab2.xls

Browse  Submit

Upload Lab

Assignment: Lab 2

Files:
- Lab2.xis
- Lab2.xis

Browse  Submit
You were absent on the following dates:

10/09/2006

Count: 1
User: Daniel Nakhla

File: PreLab1
Grade: 90

Errors
- Error: 1
  - Cell: A9
  - Reason: Incorrect Value
  - Point Deduction: 10
## Questionnaire Results

### Number of Stores Carrying a Brand

<table>
<thead>
<tr>
<th>Brand</th>
<th>2002</th>
<th>Share</th>
<th>2003</th>
<th>Share</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kolander</td>
<td>94</td>
<td></td>
<td>86</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cape Cod</td>
<td>60</td>
<td></td>
<td>68</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magic Mackerel</td>
<td>25</td>
<td></td>
<td>36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fisherman’s Delight</td>
<td>4</td>
<td></td>
<td>14</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Stores</strong></td>
<td><strong>183</strong></td>
<td><strong>194</strong></td>
<td><strong>2003</strong></td>
<td><strong>2003</strong></td>
<td><strong>Change</strong></td>
</tr>
</tbody>
</table>

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### Questionnaire Results

#### Number of Stores Carrying a Brand

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>For the Halibut</td>
<td>94</td>
<td>0.513661</td>
<td>86</td>
<td>0.443299</td>
<td>-0.08611</td>
</tr>
<tr>
<td>Capetown Cod</td>
<td>60</td>
<td>0.327669</td>
<td>58</td>
<td>0.298969</td>
<td>-0.03333</td>
</tr>
<tr>
<td>Magic Mackerel</td>
<td>25</td>
<td>0.136612</td>
<td>36</td>
<td>0.185567</td>
<td>0.44</td>
</tr>
<tr>
<td>Fisherman's Delight</td>
<td>4</td>
<td>0.021858</td>
<td>14</td>
<td>0.072165</td>
<td>2.5</td>
</tr>
<tr>
<td><strong>Total Stores</strong></td>
<td><strong>183</strong></td>
<td><strong>194</strong></td>
<td><strong>0.060109</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Student

User: Daniel Nakhla

- First Name: Daniel
- Last Name: Nakhla
- Email: daniel.nakhla@siena.edu
- Old Password:
- New Password:
- Re-Type New Password:
- Course:
- Lecture Section:
- Lab Section:

Update Personal Information
### Lab Instructor

**Students** | **Section** | **Drop** | **Overall Grade** | **Attendance Today**
---|---|---|---|---
Abbot, Daniel | 6 | Drop | 90 | Present
Brown, John | 7 | Drop | 80 | Present
Cool, Chris | 6 | Drop | 75 | Present
Dolly, Alex | 8 | Drop | 100 | Present
### Lab Instructor

#### Assignment 1

<table>
<thead>
<tr>
<th>Name</th>
<th>File</th>
<th>Grade</th>
<th>Date Due</th>
<th>Date Submitted</th>
<th>Average Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nekhle, Daniel</td>
<td>Lab1</td>
<td>100</td>
<td>10/25/2006</td>
<td>10/25/2006</td>
<td>100</td>
</tr>
<tr>
<td>Nekhle, Daniel</td>
<td>Lab2</td>
<td>100</td>
<td>10/25/2006</td>
<td>10/25/2006</td>
<td>100</td>
</tr>
</tbody>
</table>
Lab Instructor

File: PreLab1
Grade: 90

Student's Errors
Error: 1
Cell: A9
Reason: Incorrect Value
Point Deduction: 10

Do not Deduct Points for this Error
Partial Credit
5
Award

Values

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Daniel Nakhla</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
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</tr>
<tr>
<td>3</td>
<td>Values</td>
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<tr>
<td>4</td>
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<td>20</td>
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<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
Lab Instructor

Files:

- Labs
  - Lab1
  - Lab2

- PreLabs
  - PreLab1
  - PreLab2

View Selected Files
Download Selected Files
Lab Instructor

First Name: 
Last Name: 
Email: shunter@siena.edu

Old Password: 
New Password: 
Re-Type New Password: 
Update Personal Information
Lab Instructor

Students | Section | Request
---------|---------|----------
Brown, John | 7 | Switch to Section 6

Demographics

- Course: All
- Section: All
- Student: All

Tools:

- Students
- View Grades for Labs
- View Grades for Pre-Labs
- Attendance
- Student Feedback
- Class Feedback
- Class Labs and Pre-labs
- My Account

Pending Requests
### Course Administrator

![Course Administrator Interface]

#### Table:

<table>
<thead>
<tr>
<th>Last Name</th>
<th>First Name</th>
<th>Section</th>
<th>Course</th>
<th>Email</th>
<th>Account Type</th>
<th>Password</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nakia</td>
<td>Daniel</td>
<td>S</td>
<td>110</td>
<td><a href="mailto:daniel.nakia@siena.edu">daniel.nakia@siena.edu</a></td>
<td>Student</td>
<td>*****</td>
</tr>
<tr>
<td>Hunter</td>
<td>Scott</td>
<td></td>
<td></td>
<td><a href="mailto:shunter@siena.edu">shunter@siena.edu</a></td>
<td>Lab Instructor</td>
<td>*****</td>
</tr>
</tbody>
</table>

**Actions:**
- Delete
- Save
- Edit

**Buttons:**
- Create New Account
- Account Associations
- Create Class
- Upload Answer Files
- View Grades for Lab
- View Grades for PreLab
- Class Lab and PreLab
- My Account
Course Administrator

Administrator

First Name:
Last Name:
Email:
Password:
Re-Type Password:
Account Type:
Course:
Lecture Section:
Lab Section:
Submit
Close
Course Administrator
Course Administrator
Course Administrator

Administrator

Lab | Lab1 | To be graded using file | Lab01Key.txt

Prelab | Prelab1 | To be graded using file | Prelab01Key.txt

To be graded using file

Add New
Answer Key Sample
Checks that Value of cell B6 is 6
Error is worth 10 points
V denotes value type of problem
B6 specifies the CELL
6 specifies the correct value
10 specifies the grade weight of the error
Codes are comma delimited
Denotes a comment

V : B6 : 6 : 10,
V : B7 : 11 : 5,
V : B8 : =B6-B7 : 15,
V : B9 : =SUM(B6:B8) : 10,
Course Administrator

Assignment 2

<table>
<thead>
<tr>
<th>Name</th>
<th>File</th>
<th>Grade</th>
<th>Date Due</th>
<th>Date Submitted</th>
<th>Average Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nakhla, Daniel</td>
<td>ProLab1</td>
<td>100</td>
<td>10/26/2006</td>
<td>10/26/2006</td>
<td>100</td>
</tr>
</tbody>
</table>

Download
Export To Excel
Course Administrator

Administrator

First Name: 
Last Name: 
E-mail: shunter@sierra.edu 
Old Password: 
New Password: 
Re-Type New Password: 
Update Personal Information
Agenda

• Introduction – Matt Restivo
• Data Flows & Dictionaries – James Rocco
• Database Design – Justin Valentini
• Unit Testing – Colin Cubinski
• Prototype Screens – Dan Nakhla
• Going Forward... – Matt Restivo
Where we stand...
Going Forward...

• What’s next?
  – Detailed Design:
    • Document Delivery: February 20\textsuperscript{th}, 2007
    • Presentation: February 21\textsuperscript{st}, 2007
  – Acceptance Test:
    • Document Delivery: May 1\textsuperscript{st}, 2007
    • Presentation: May 2\textsuperscript{nd}, 2007
  – Academic Celebration
    • May 5\textsuperscript{th}, 2007
Going Forward...

• Any Questions?
Going Forward...

• Any Questions?
Going Forward...

• Any Questions?
Going Forward...

• Any Questions?
Going Forward...

• Any Questions?
### Lecture Instructor

#### Assignment 1

<table>
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<th>File</th>
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<th>Date Submitted</th>
<th>Average Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nakia, Daniel</td>
<td>Lab1</td>
<td>100</td>
<td>10/25/2006</td>
<td>10/26/2006</td>
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<tr>
<td>Nakia, Daniel</td>
<td>Lab2</td>
<td>100</td>
<td>10/25/2006</td>
<td>10/26/2006</td>
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[Show Feedback] [Download] [Show Feedback] [Download] [Export To Excel]
Lecture Instructor

Assignment 2

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<tr>
<th>Name</th>
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<th>Date Submitted</th>
<th>Average Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nakhlia, Daniel</td>
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<td>100</td>
<td>10/26/2006</td>
<td>10/26/2006</td>
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</tbody>
</table>
Lecture Instructor

![Lecture Instructor Interface]

- **Late:**
  - Count: 2
  - 10/25/2006
  - 10/28/2006
  - Remove
  - Add Tardiness

- **Absent:**
  - 10/09/2006
  - Remove
  - Add Absence
Lecture Instructor

File: PreLab1
Grade: 90

Student's Errors
Error: 1
Cell: A9
Reason: Incorrect Value
Point Deduction: 10

Do not Deduct Points for this Error

Partial Credit
5 Award

PreLab1.xls

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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<tbody>
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<td>1</td>
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<td></td>
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<td></td>
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<td></td>
<td></td>
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<tr>
<td>10</td>
<td>6</td>
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</tr>
</tbody>
</table>
Lecture Instructor

Files:

Labs
- Lab1
- Lab2

Prelabs
- PreLab1
- PreLab2

View Selected Files
Download Selected Files
Lecture Instructor

The image shows a screenshot of the e-SATA software interface for Lecture Instructor. The interface includes options for selecting Course, Section, and Student, with a focus on pending requests.

- **Students**: Brown, John and Kelly, Mike
- **Sections**: 7
- **Requests**: Switch to Section 6 and Section 9

There are buttons to accept or deny these requests.