Initrode
Solutions

Alumni Spotlight
Web System

http://oraserv.cs.siena.edu/~perm_initrode/

Preliminary Design
by
Initrode Solutions
12/01/2006
Dr. Eric Breimer
Webmaster
Assistant Professor
Siena College
Department of Computer Science
Agenda

• Introduction and Project Overview
  – Elise Hearn
• Data Design
  – David Luck
• Unit Testing
  – Charles Feltes
• Prototype Screens and Conclusion/Questions
  – Christopher McConnell
Introduction

• Recap
  – Web based community of Siena Alumni

• Preliminary Design
  – Narrow down scope of project
  – Additional features
    • Database
    • Unit testing
    • Prototypes
Agenda

• Introduction and Project Overview
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Data Flow Diagrams

Symbols Key

- Processes
- Sources/Sinks
- Data Store
- Dataflows
## Logical Data Stores

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
<th>Data Type</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name</td>
<td>The community user's first name.</td>
<td>VARCHAR(20)</td>
<td>Christopher</td>
</tr>
<tr>
<td>Last Name</td>
<td>The community user's last name.</td>
<td>VARCHAR(35)</td>
<td>McConnell</td>
</tr>
<tr>
<td>City</td>
<td>Current city the user lives in.</td>
<td>VARCHAR(55)</td>
<td>Albany</td>
</tr>
<tr>
<td>State</td>
<td>Current state the user lives in.</td>
<td>CHAR(2)</td>
<td>NY</td>
</tr>
<tr>
<td>E-mail</td>
<td>Current contact e-mail, typically the user's registered account name.</td>
<td>VARCHAR(30)</td>
<td><a href="mailto:me@siena.edu">me@siena.edu</a></td>
</tr>
<tr>
<td>Graduation Year</td>
<td>The year the user graduated Siena.</td>
<td>SMALLINT(4)</td>
<td>2006</td>
</tr>
<tr>
<td>Major</td>
<td>The user's major while at Siena.</td>
<td>VARCHAR(50)</td>
<td>Computer Science</td>
</tr>
<tr>
<td>Minor(s)</td>
<td>The user's minor(s) while at Siena.</td>
<td>VARCHAR(100)</td>
<td>Business &amp; Mathematics</td>
</tr>
<tr>
<td>Degree Earned</td>
<td>The user's degree they have earned.</td>
<td>VARCHAR(50)</td>
<td>BS in Computer Science</td>
</tr>
<tr>
<td>Favorite Class</td>
<td>The user's favorite class taken at Siena.</td>
<td>VARCHAR(100)</td>
<td>Software Engineering I</td>
</tr>
<tr>
<td>Favorite Professor</td>
<td>The user's favorite professor at Siena.</td>
<td>VARCHAR(100)</td>
<td>Dr. Breimer</td>
</tr>
<tr>
<td>Least Favorite Class</td>
<td>The user's least favorite class at Siena.</td>
<td>VARCHAR(100)</td>
<td>Digital Electronics</td>
</tr>
<tr>
<td>Graduate School</td>
<td>A Yes/No question asking the user if they have or are currently attending Graduate School.</td>
<td>BIT(1)</td>
<td>0</td>
</tr>
</tbody>
</table>
Relationship Screen

User_Table

- Email
- Address
- User_Password
- First_Name
- Last_Name
- City
- State
- Graduation_Year
- Major
- Minor(s)
- Degree_Earned
- Favorite_Class
- Favorite_Professor
- Least_Favorite_Class
- Bood_Grad_School
- What_Grad_School
- Current_Job_Loc
- Current_Job_Title
- Salary
- Siena_Desc
- Personal_Info
- Favorite_Quote
### Example Queries

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Modified</th>
<th>Created</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounts_Data</td>
<td>Grabs all data for a user's account</td>
<td>11/16/2006 3:12:09 PM</td>
<td>11/16/2006 2:07:52 PM</td>
</tr>
<tr>
<td>Login_Information</td>
<td>Grabs all E-mail addresses, as well as passwords to verify login information</td>
<td>11/16/2006 3:12:34 PM</td>
<td>11/16/2006 1:46:19 PM</td>
</tr>
<tr>
<td>Retrieve_Password_Email</td>
<td>Grabs first name, last name, email, and password fields to send out the password.</td>
<td>11/16/2006 3:15:18 PM</td>
<td>11/16/2006 3:01:36 PM</td>
</tr>
</tbody>
</table>
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Unit Test Explanation

• Validates particular aspect of the program
  – ex. Code, screens
• Tests for correct function
• Help indicate problems
Currently the State Before Test and State After Test fields have not been determined at this date and are listed as To Be Determined (TBD). These will be decided upon by the Detailed Design.

**Input/Test Values used in this Test:** Registered User Name (1), Unregistered User Name (2), Correct Password (3), Incorrect Password (4), Login Button Click (5), Register Button Click (6), Forgotten Password Link Click (7)

<table>
<thead>
<tr>
<th>ID</th>
<th>Name</th>
<th>Description</th>
<th>Input/Test Values</th>
<th>Steps to be Executed</th>
<th>Expected Results</th>
<th>State Before Test</th>
<th>State After Test</th>
<th>Pass/Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Enter User Name</td>
<td>User enters his/her User Name in the User Name text box</td>
<td>(1)</td>
<td>Enter text into User Name text box</td>
<td>User Name text box displays the name that the User has entered</td>
<td>TBD</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>1.2</td>
<td>Enter Password</td>
<td>User enters his/her Password in the Password text book</td>
<td>(2)</td>
<td>Enter text into Password text box</td>
<td>Password text box displays the encrypted Password that the User has entered</td>
<td>TBD</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>1.3</td>
<td>Login Attempt With Unregistered User Name</td>
<td>Unregistered User Name is entered and Login button is clicked</td>
<td>(2), (3), (5)</td>
<td>Load incorrect User Name / Password webpage</td>
<td>Webpage is loaded telling User that his/her authentication attempt was incorrect</td>
<td>TBD</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>1.4</td>
<td>Login Attempt With Registered User Name and Incorrect Password</td>
<td>Registered User Name is entered, an Incorrect Password is entered and Login button is clicked</td>
<td>(1), (4), (5)</td>
<td>Load incorrect User Name / Password webpage</td>
<td>Webpage is loaded telling User that his/her authentication attempt was incorrect</td>
<td>TBD</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>1.5</td>
<td>Login Attempt With Registered User Name and Correct Password</td>
<td>Registered User Name is entered, Correct Password for that User Name is entered and Login button is clicked</td>
<td>(1), (3), (5)</td>
<td>Load webpage</td>
<td>Webpage is loaded displaying the User's homepage</td>
<td>TBD</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>1.6</td>
<td>Register Button Clicked</td>
<td>User clicks Register button</td>
<td>(6)</td>
<td>Load webpage</td>
<td>Registration webpage is loaded for a new User to create a new account</td>
<td>TBD</td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>1.7</td>
<td>Forgotten Password Link Clicked</td>
<td>Forgotten Password Link is Clicked</td>
<td>(7)</td>
<td>Load webpage</td>
<td>Forgotten Password webpage is loaded that helps instruct users how to get a new password</td>
<td>TBD</td>
<td>TBD</td>
<td></td>
</tr>
</tbody>
</table>
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Registration Screen

user account

Note: if you have an account with one of our affiliates (Drupal), you may login now instead of registering.

Account information

Username: *
Your full name or your preferred username; only letters, numbers and spaces are allowed.

E-mail address: *
A password and instructions will be sent to this e-mail address, so make sure it is accurate.

Personal information

Full name:
Specify your first and last name.

Country: *
Afghanistan
Specify your country.

Create new account
xSKK169x,

Thank you for registering at drupal.org. You may now log in to http://drupal.org/user using the following username and password:

username: xSKK169x
password: frrVtmKm5f

You may also log in by clicking on this link or copying and pasting it in your browser:

http://drupal.org/user/reset/92722/1163737748/022d9eb7ddc1c278a2ace164f35e8e6f

This is a one-time login, so it can be used only once.

After logging in, you will be redirected to http://drupal.org/user/92722/edit so you can change your password.
Profile (Default)

xSKK169x

The changes have been saved.

History

Member for
5 min 12 sec

Personal information

Full name
Christopher McConnell

Country
United States

Newsletters

Current subscriptions
Currently no subscriptions

Manage subscriptions
my newsletters
Edit Profile (Default)

Username: * xSKK169x
E-mail address: * ct1+mcc@siena.edu
Password:

* Block configuration
- Contributor links
- Devel

* Comment settings
Signature:

Your signature will be publicly displayed at the end of your comments.

* Contact settings
Edit Profile (cont.)

First Name: ___________________________  * Last Name: ___________________________

Address: ___________________________________________  City: ___________________________  State: ___________________________  Zip Code: ___________________________

E-mail: ___________________________________________

*Graduation year: ___________________________  * Major: ___________________________  * Minor: ___________________________

Favorite Class: ___________________________  Favorite Professor: ___________________________

Did you go to, or are you enrolled in Graduate School?  
- [ ] Yes  
- [ ] No

If Yes, what school? ___________________________

Who do you work for? ___________________________

Current Job Location: ___________________________  Current Job Title: ___________________________
Edit Profile (cont.)

Please describe your scene experience.*

Please tell the community little about yourself. This could be anything from hobbies/interests, to where you see yourself in 10 years.

Favorite Quote:

Privacy Options
- Public - Ok for the spotlight, everybody can see it.
- Public-Protected - only viewable if spotlighted
- Protected - community can view but NO to the spotlight.
- Private - viewable specified users, yourself, and administrator.

Please select a security question:

Please enter your security question answer:

NOTE: All * Items must be filled in.
Administrator CP

Drupal

admin

- Forums
- my blog
- create content
- my account
- Recent Forums
- news aggregator
- administer
- log out

Home » user account

admin

- view
- edit
- track
- contact

History

Member for
24 weeks 1 day

Blog
view recent blog entries
### Edit Admin Account

#### Admin Panel

**Username:**
- `admin`

**E-mail address:** 
- `me@home.net`

**Password:**
- [Password field](#)

**Status:**
- [ ] Blocked
- [ ] Active

**Roles:**
- [ ] teacher
- [ ] writer

The user receives the combined permissions of the authenticated user role, and all roles selected here.

---

### Theme Configuration

Selecting a different theme will change the look and feel of the site.

<table>
<thead>
<tr>
<th>Theme</th>
<th>Screenshot</th>
<th>Name</th>
<th>Selected</th>
</tr>
</thead>
<tbody>
<tr>
<td>marvia</td>
<td><img src="#" alt="Marvia Screenshot" /></td>
<td>themes/marvia</td>
<td></td>
</tr>
<tr>
<td>pushbutton</td>
<td><img src="#" alt="Pushbutton Screenshot" /></td>
<td>themes/pushbutton</td>
<td></td>
</tr>
<tr>
<td>bluesaur</td>
<td><img src="#" alt="Bluesaur Screenshot" /></td>
<td>themes/bluesaur (site default theme)</td>
<td></td>
</tr>
</tbody>
</table>
**User Accounts (Admin)**

Drupals allows users to register, login, logout, maintain user profiles, etc. No participant can use his own name to post content until he signs up for a user account.

<table>
<thead>
<tr>
<th>Username</th>
<th>Status</th>
<th>Member for</th>
<th>Last access</th>
<th>Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>hroyo</td>
<td>active</td>
<td>3 min 42 sec</td>
<td>never</td>
<td>edit</td>
</tr>
<tr>
<td>12</td>
<td>active</td>
<td>7 min 43 sec</td>
<td>3 min 34 sec ago</td>
<td>edit</td>
</tr>
<tr>
<td>rkspitz</td>
<td>active</td>
<td>9 weeks 4 hours</td>
<td>never</td>
<td>edit</td>
</tr>
<tr>
<td>t1</td>
<td>active</td>
<td>23 weeks 6 days</td>
<td>14 weeks 6 days ago</td>
<td>edit</td>
</tr>
<tr>
<td>admin</td>
<td>active</td>
<td>24 weeks 1 day</td>
<td>11 sec ago</td>
<td>edit</td>
</tr>
</tbody>
</table>
User Accounts (Admin)

### Filter by message type:

<table>
<thead>
<tr>
<th>Type</th>
<th>Date</th>
<th>Message</th>
<th>User</th>
<th>Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>user</td>
<td>2006-11-18 05:11</td>
<td>Session opened for admin.</td>
<td>admin</td>
<td></td>
</tr>
<tr>
<td>user</td>
<td>2006-11-18 05:05</td>
<td>Session opened for admin.</td>
<td>admin</td>
<td></td>
</tr>
<tr>
<td>user</td>
<td>2006-11-18 05:05</td>
<td>Session opened for admin.</td>
<td>admin</td>
<td></td>
</tr>
<tr>
<td>user</td>
<td>2006-11-18 05:05</td>
<td>Session opened for admin.</td>
<td>admin</td>
<td></td>
</tr>
<tr>
<td>user</td>
<td>2006-11-18 05:04</td>
<td>Session opened for admin.</td>
<td>admin</td>
<td></td>
</tr>
<tr>
<td>access denied</td>
<td>2006-11-18 05:04</td>
<td>admin/access denied access.</td>
<td>Anonymous</td>
<td>view</td>
</tr>
<tr>
<td>user</td>
<td>2006-11-18 05:03</td>
<td>Session opened for admin.</td>
<td>admin</td>
<td></td>
</tr>
<tr>
<td>user</td>
<td>2006-11-18 05:03</td>
<td>Session opened for admin.</td>
<td>admin</td>
<td></td>
</tr>
<tr>
<td>user</td>
<td>2006-09-16 02:25</td>
<td>Session opened for admin.</td>
<td>admin</td>
<td></td>
</tr>
<tr>
<td>access denied</td>
<td>2006-09-16 02:25</td>
<td>admin/menu denied access.</td>
<td>Anonymous</td>
<td>view</td>
</tr>
<tr>
<td>content</td>
<td>2006-09-16 02:24</td>
<td>page: added HI.</td>
<td>admin</td>
<td>view</td>
</tr>
<tr>
<td>user</td>
<td>2006-09-16 02:23</td>
<td>Session closed for admin.</td>
<td>admin</td>
<td></td>
</tr>
<tr>
<td>user</td>
<td>2006-09-16 02:23</td>
<td>Session closed for admin.</td>
<td>admin</td>
<td></td>
</tr>
<tr>
<td>user</td>
<td>2006-09-16 02:23</td>
<td>Session closed for admin.</td>
<td>admin</td>
<td></td>
</tr>
<tr>
<td>user</td>
<td>2006-09-16 02:22</td>
<td>Session closed for admin.</td>
<td>admin</td>
<td></td>
</tr>
<tr>
<td>user</td>
<td>2006-09-16 02:22</td>
<td>Session closed for admin.</td>
<td>admin</td>
<td></td>
</tr>
<tr>
<td>user</td>
<td>2006-09-16 02:21</td>
<td>Session closed for admin.</td>
<td>admin</td>
<td></td>
</tr>
<tr>
<td>access denied</td>
<td>2006-09-16 02:21</td>
<td>admin/settings denied access.</td>
<td>Anonymous</td>
<td>view</td>
</tr>
<tr>
<td>user</td>
<td>2006-09-16 02:20</td>
<td>Session closed for admin.</td>
<td>admin</td>
<td></td>
</tr>
<tr>
<td>page not found</td>
<td>2006-09-16 02:20</td>
<td># not found.</td>
<td>Anonymous</td>
<td></td>
</tr>
<tr>
<td>content</td>
<td>2006-09-16 02:20</td>
<td>page: deleted Hello.</td>
<td>admin</td>
<td></td>
</tr>
</tbody>
</table>
Conclusion

• Completion of our Fall Development Schedule
Conclusion

• Where are we headed next?
  – February 13\textsuperscript{th}, 2007 – Detailed Design
  – May 1\textsuperscript{st}, 2007 – Acceptance Testing

• Questions?
Thank you

- Thank you all very much for coming, and a special thank you to our client Dr. Eric Breimer.