Table of Contents

Project Overview.................................................................Page 3
Website Overview...............................................................Page 4
Add User........................................................................Page 5
View/Edit User.................................................................Page 6
Add Content..................................................................Page 8
View/Edit Content............................................................Page 9
Client Overview..............................................................Page 11
Running the Client Demo..................................................Page 12
Demo Purpose.................................................................Page 13
Customer Support............................................................Page 16
Project Overview

Smart Poster is a system that gathers information from users and displays information that is relevant to them. Each user will have access to a website where they can create a profile. Their profile will consist of various interests which will then be used to match events/news that is relevant to them, which will then be displayed on the screen. The website also allows for the creation of content to be displayed. Both the users and the content are stored in a database and are retrieved when necessary.

The main application of this will be to eventually be used in the new EECS building for people entering and exiting certain areas. The areas of concern will be equipped with displays (LCD screens) which will display information relevant to them. Participating users will have already created a profile using the website and will be wearing an RFID tag of some sort (TBD) that will hold their specific profile. The RFID sensor in the area will then sense the user’s presence and attempt to display appropriate information. For the purposes of our project, we have written a script to simulate the physical entry and exit of users into areas, and will display information on this computer screen.

Access to the website is gained by going to the link below. Whenever you need to get back to the website, this link will bring up the main page.

http://141.213.191.38/SmartPoster
Website Overview

The purpose of the webpage is to allow users to create/edit their profile, as well as allow for content to be added for displaying. When either of these are created, they are stored in the database.

<table>
<thead>
<tr>
<th>Welcome To Smart Poster</th>
</tr>
</thead>
<tbody>
<tr>
<td>Login Page</td>
</tr>
<tr>
<td>Create User Page</td>
</tr>
<tr>
<td>View Content Page</td>
</tr>
<tr>
<td>Reset</td>
</tr>
<tr>
<td>View Tables</td>
</tr>
</tbody>
</table>

Above is a picture of the website. Each link on the site is an option for the user to edit the database. The following pages will describe each link’s functionality.
Add User

From the main website, select the “Create User Page” link below.

- Create User Page

You should see the following display:

```
<table>
<thead>
<tr>
<th>Create User</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Name</td>
</tr>
<tr>
<td>RFID Tag ID</td>
</tr>
<tr>
<td>Password</td>
</tr>
<tr>
<td>Confirm Password</td>
</tr>
<tr>
<td>Gender</td>
</tr>
<tr>
<td>Male</td>
</tr>
<tr>
<td>Create User</td>
</tr>
</tbody>
</table>
```

From here, enter information into all the data fields.

Full Name: Name of the user.
RFID Tag ID: ID that recognizes the user. Numeric digits only.
Password: Any string of characters/digits.
Confirm Password: Same string as above.
Gender: Gender of the user.

Once you have finished entering the data, click the “Create User” button. You have just created a new user with all of the information listed in the data fields.
View/Edit User

To view/edit a user, you must first login. Do so by clicking the link below from the main page.

- Login Page

Once inside the login page, you should see the display below:

![SmartPoster Login](image)

Enter the appropriate information and click the “Login” button to proceed.

The following page shows what will display after the “logon” button has been clicked.
From here, you can edit the user profile by checking or unchecking interests. When you are done editing the profile, click the "Save Changes" button at the bottom of the page.
In order to add new content to the database, click the “View Content Page” link below (from the main page).

![View Content Page](image)

From here, click on the “Add New Content” button below.

![Add New Content](image)

This will add a new content to the bottom of the list displayed on the screen. You have successfully added a new piece of content to the database.
To view/edit content, click the "View Content Page" link below (from the main page).

Once there, you will see a list of content that is currently in the database, such as below.

<table>
<thead>
<tr>
<th>Content</th>
<th>edit</th>
<th>delete</th>
</tr>
</thead>
<tbody>
<tr>
<td>EECS Events</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sports News</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ME Events</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Politics News</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technology News</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Music News</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EECS Speaks Events</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technology MSNBC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>new content</td>
<td></td>
<td></td>
</tr>
<tr>
<td>new content</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Click the "edit" link that is next to the piece of content that you wish to edit. If you wish to remove a piece of content, click the "delete" link that is next to the piece of content that you wish to remove.
After clicking the “edit” link next to a piece of content, the following display appears:

Enter the appropriate information into the text fields.

Title: The title of the piece of content.
RSS File: Browse your computer for an RSS file to upload into the database. This piece of content will now be associated with this RSS file.

Check all the boxes that are related to the RSS file that you have uploaded. When you are done, click the “Submit Changes” button at the bottom.
Client Overview

Once you have completed entering users and content into the database, you will be ready to use the client.

You may run the client with any set of users and content you like, but for the purposes of this manual and for our project, we have prepared a demo with set users and content for you. In order to set the database so that it holds the users and content needed to run the demo properly, click the "Reset" link below (on the main page).

Reset

Once you have done this, you will be able to run the client demo.
Running the Client Demo

To run the client demo, insert the cd-rom and open the run.bat file. This will bring up the display screen.

The above picture is a visual of what the upper left portion of the display should look like. Once the display has shown (screen will not be populated with content at this point), step through the demo by pressing the “u” key. This will simulate users entering and exiting the area around the display.
Demo Purpose

The purpose behind the client demo is to show how the displayed content changes based on the users that are in the room and their interests. The users and their interests that participate in the demo are listed below.

User: EECSGuy
RFID Tag: 0000
Interest(s): Computer Science, Technology

User: EECSGuy2
RFID Tag: 1111
Interest(s): Computer Science, Technology

User: SportsGuy
RFID tag: 2222
Interest(s): Football

User: MEGuy
RFID tag: 3333
Interest(s): Mechanical Engineering, Technology

User: BroadCSGuy
RFID tag: 4444
Interest(s): Computer Science, Rock, Football, Politics Content

None of the users above have passwords (keep this in mind should you choose to view their profiles).
The content and their interests that participate in the demo are listed below.

Feed: EECS.xml
  Interest(s): Computer Science, Computer Engineering, Electrical Engineering

Feed: sportsNews.xml
  Interest(s): Baseball, Basketball, Hockey, Football, Softball, Soccer, Crew, Field Hockey, Lacrosse, Volleyball

Feed: ME.xml
  Interest(s): Mechanical Engineering

Feed: politicsNews.xml
  Interest(s): Politics

Feed: technologyNews.xml
  Interest(s): Technology

Feed: musicNews.xml
  Interest(s): Rock, R&B, Alternative Rock, Gospel, Metal, Hip Hop, Electronic, Techno, Classical, Acapella, Rap

All of the above contents are available for viewing (see "View/Edit Content").
The scenario that the demo runs is listed below.

EECSGuy enters (10 seconds) and is the only person present.
Display: EECS.xml & technologyNews.xml

EECSGuy2 enters (20 seconds)
Display: EECS.xml & technologyNews.xml

SportsGuy enters (30 seconds)
Display: EECS.xml & technologyNews.xml

EECSGuy leaves (40 seconds)
Display: EECS.xml & technologyNews.xml or sportsNews.xml

EECSGuy2 leaves (50 seconds)
Display: nothing(default) & sportsNews.xml

BroadCSGuy enters (60 seconds)
Display: EECS.xml or musicNews.xml & politicsNews.xml or musicNews.xml or technologyNews.xml

BroadCSGuy and SportsGuy leave (80 seconds)
Display: nothing (default)

MEGuy enters(90 seconds)
Display: ME.xml & technologyNews.xml

EECSGuy enters (100 seconds)
Display: ME.xml or EECS.xml && technologyNews.xml
Customer Support

Have any questions? Email the support team for the SmartPoster project at smartPoster481@umich.edu.