

Project Milestone 2

Recitation Number: 113

Team Number: 3

Team Name: Extra-Small

Team Members:

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Main Features:

1. Register

The website/application will incorporate a registration page, which allows the user to create an account by verifying their identikey information, create a username, create a password, and input/verify any contact information. The identikey verification is vital as the site will be available to CU students/faculty only.

- *Functional Requirements:*
 - User should be able to create a new account
 - User creates username, password, and enters email
 - Sends link to listed email for verification
 - Displays verification page upon email verification
 - Login and redirect to main page upon registration
- *Non-Functional Requirements:*
 - Use Node.js to send the data entered back to the database(sql) for storing it(we could also use 'mysqlclient' library' if we use Django instead)
 - A way to verify the email

2. Login/Account

A page of the site/app that displays some text boxes for the user to input their credentials into.

- *Functional Requirements:*
 - Capable of receiving password and username input
 - Verifies login credentials
 - Displays error message if input does not match anything in database
 - Redirects user to main page if input does match info in database
- *Non-Functional Requirements:*
 - Matching the entered data with the values/data we have in the database using AJAX(might change later)
 - Utilizes HTML bootstrap functionality to display pop-up error messages
 - Uses hyperlinks to direct from login to main page

3. Creating a Post

The user must be able to create a post that advertises their product, which should include a picture of what they're trying to advertise, a title for the product, a brief description, and the listing price.

- *Functional Requirements:*
 - User should be able to create a new post with price, name, description, photo, tags, location, ...
 - User should be able to select a course number for the required text
 - User should be able to upload files
- *Non-Functional Requirements:*
 - Add the item's price, description, name, tags etc to the database. Update it accordingly using AJAX(again might change later)

4. Edit/Delete post

The user must be able to edit or delete a post that they created. This includes being able to change/delete photos, adjust the price, and other various minor changes to their post. They also have the option to delete their entire post.

- *Functional Requirements:*
 - User should be able to edit their post, re-opening the post page with the information already filled in with the current information
 - User should be able to delete their post

- *Non-Functional Requirements:*
 - Update the post(database) using AJAX(still haven't decided on it yet)
 - Will make use of onclick functionality

5. Search

A function that looks up posts based on the tags/keywords that the user inputs/selects.

- *Functional Requirements:*
 - Capable of receiving user input
 - Capable of searching a database for keywords/tags from user input
 - Displays all relevant posts based on keywords/tags
 - Sort by time, price, or relevance
 - Capable of searching for required text for a certain course
- *Non-Functional Requirements:*
 - Create a database to store the textbooks offered in the bookstore
 - Create a database to store the text requirements for courses at CU
 - Searches information stored in database based on tags

6. Communication

A feature that will allow people to message each other within the application to ask questions, bargain, offer different types of payment methods, and general communication related to the post.

- *Functional Requirements:*
 - Users will be able to directly contact each other through the app
 - Also option for user to enter email or phone number when making a post
- *Non-Functional Requirements:*
 - Have a user contact another via in-app message

7. Home Page

Upon registration and logging-in, the user will be redirected to a main page that will essentially be the main interface for the user. This page will essentially display a menu for the user to utilize as a main hub for their desired tasks, whether it be to search, add to or view their current posts, open a communication hub, edit their account information, etc. This page should also allow the user to view all posts relevant to their search, as well as allow the user to logout.

- **Functional Requirements:**
 - Incorporate a dropdown menu that allows user to access the other features of the site
 - Capable of displaying all posts relevant to search criteria
- **Non-Functional Requirements:**
 - Must be capable of redirection to other pages as applicable using hyperlink references
 - Capable of displaying up to 100 relevant posts
 - Capable of displaying up to 10 posts per page

