

Project Title: Smart Shopping Hub

Team Members:

- Erika Ramirez (erikaram)
- Rose Liu (roseliu)
- Elly Zheng (ellyz)
- Crystal Huang (ruizhenh)

Product Owner: Rose Liu (roseliu)

Project Backlog:

- **Register Login Logout Functionality:** Ability for the user to register an account with a unique username and password (on *Register* page), and subsequently utilize that information to log in (on *Login* page) and optionally log out (redirect to *Landing* page)
- **Dynamic List of Shopping Links:**
 - Add and delete functionality for the product links that the user selects (on *Home* page) with the applicable addition actions below
 - Ability to create multiple named lists to better group the users products
- **Product Image Fetching:** Automatic scrape of the selected product page (given a product addition via a link) for the product image and display it (on *Products* page)
- **Product Price and Description Fetching:** Automatic scrape of the selected product page (given a product addition via a link) for the product price and display it (on *Products* page)
- **Buttons to Product Pages:** Hyperlink each product page (on *Products* page)
- **Button to View a List of All Users:** View a list of all users (on *Users List* page)
- **Following and Follower Interactions:**
 - From the *Users List* page, functionality to allow users to click into another user's page (*Other User* page) and "follow" a specific list
 - Display the lists of other users that the user is "following" (on *Following* page)
- **Private/Public Function (stretch goal):** Option to set the user's lists to private or public – enabling or disabling the ability for other users to view and follow them (on *Home* page)
- **Sorting Functions for Products (stretch goal):** Ability for user to sort their lists by specific values on *Home* page (time added, price, etc)

First Sprint Backlog:

- Landing Page Creation – Rose Liu (roseliu)
- CSS Files & Overall Design – Rose Liu (roseliu)
- Register Login Logout Functionality - Elly Zheng (ellyz)

- Backend WebScraping Tutorial / Attempt - Crystal Huang (ruizhenh) & Elly Zheng (ellyz)
- Data Models - Erika Ramirez (erikaram)
 - Shopping list (list of products)
 - Product
 - User
- Design Mock-up - Crystal Huang (ruizhenh)
- Make slides for presentation - Crystal Huang (ruizhenh)

Data Models: See the models.py file in the repository

Views to Create:

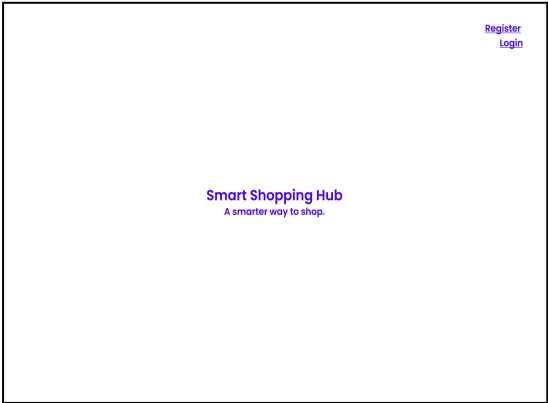
- Landing Page (button for register, login)
 - Description of the website
- Register Page
- Login Page
- Home Page (list of lists)
- Products Page (specific list)
- Add Product Page (to list)
- Users List Page (list of all the users)
- Other User Page (specific user page)
- Following Page (lists that the user follows)

Technologies:

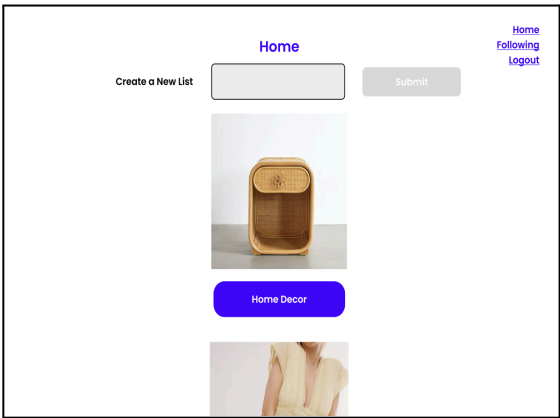
- Django (Python): We will use Django to build the backend of the web application because of its ease of use for creating scalable web apps, as well as its built-in tools for managing databases and user authentication.
- AJAX (JavaScript): AJAX will be used for dynamically fetching and updating product listings without needing to reload the entire page, ensuring a smooth and responsive user experience.
- BeautifulSoup (Python): This library will be used to scrape and parse product data (images, prices, links) from various websites and aggregate them into our platform. It provides an easy way to parse HTML and XML documents.
- SQLite: We will use SQLite to store user data, product information, and timers associated with the delayed purchase button. SQLite is a lightweight and serverless database that fits well with Django for prototyping and development.
- Bootstrap (HTML/CSS): For front-end styling, Bootstrap will be used to create a responsive and visually appealing interface, making the site easy to navigate on both desktop and mobile devices.

Mock-Ups:

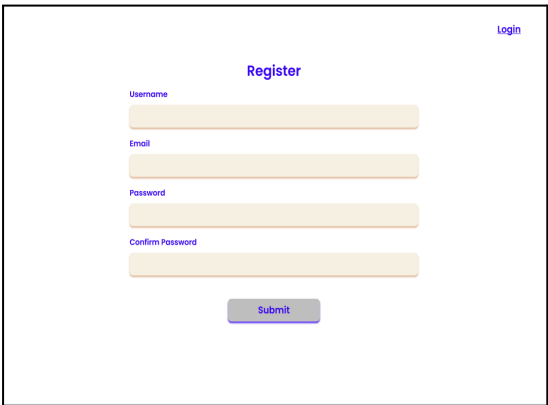
Landing Page



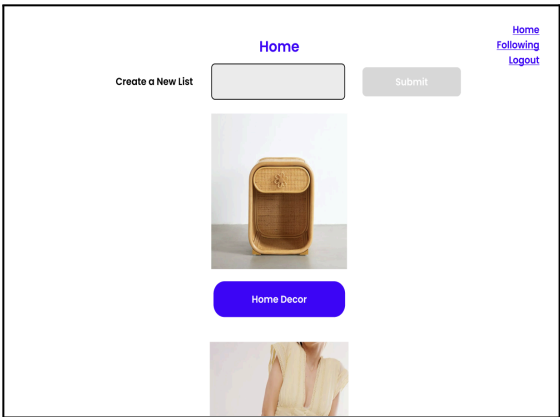
Home page



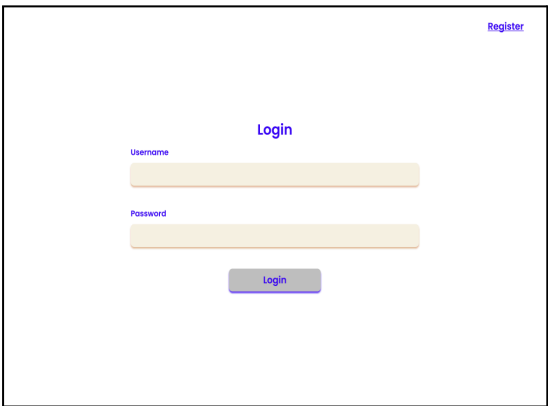
Register Page



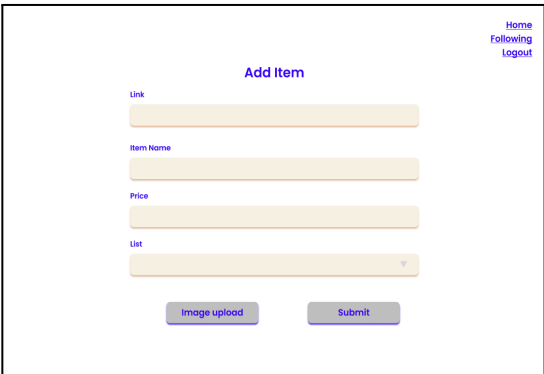
Products Page



Login Page



Add Product Page



Users List page

Following

[Home](#)
[Following](#)
[Logout](#)

Erika Rameritz Shopping List

- Home Decor
- Clothes
- Jewelry

Elly Zheng Shopping List

- Clothes
- Books
- Wish List

Rose Liu Shopping List

- Gifts
- Accessories
- Clothes

Crystal Huang Shopping List

- Clothes
- Home Decor
- Favorites

Farnam Jahanian Shopping List

- Carnegie Mellon Merch
- Tartan
- Scotty's

Other User Page

Farnam Jahanian Shopping List


[Home](#)
[Following](#)
[Logout](#)

Filters


Brand

Price

Category



Carnegie Mellon Merch



Following Page

Following

[Home](#)
[Following](#)
[Logout](#)

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