CHUMBAWUMBAS

Choose Your Clothing!

Fall 2017

https://github.com/adevakumar/chumbawumbas

Team Overview

Team Member Name	Github Usernames
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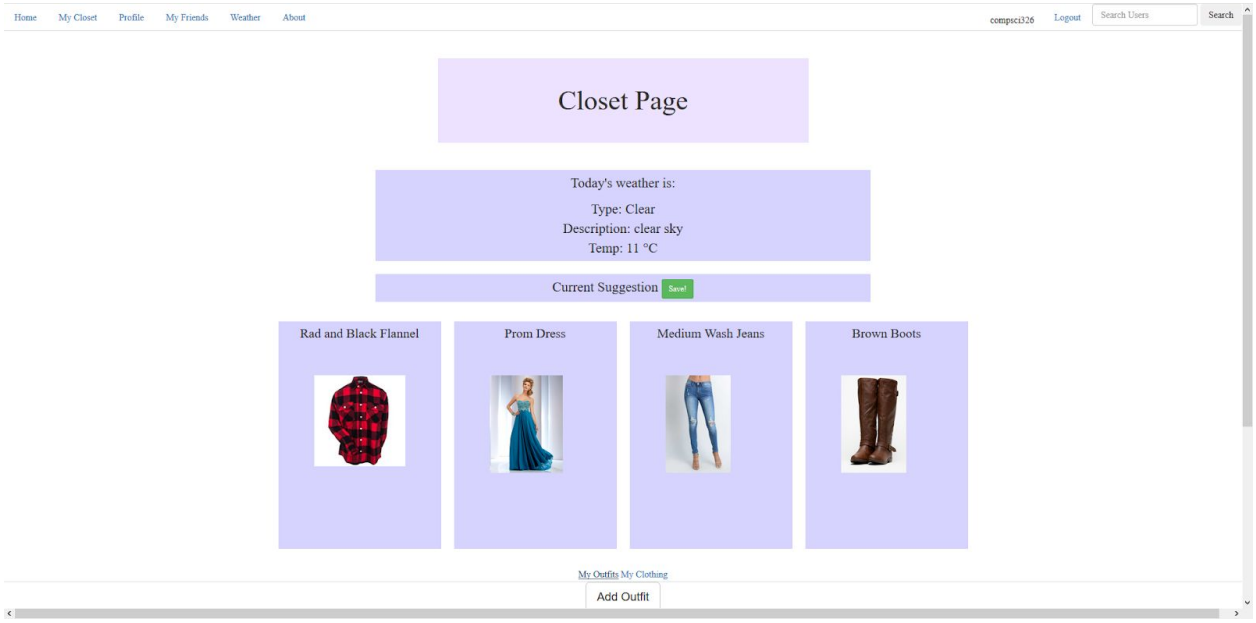
Overview:

Choose Your Clothing!, is a virtual closet meant to suggest clothing based on weather conditions and connect people through their clothes. The first ever social media based on clothing, we want people to interact with their friend's closets and bond through their love of fashion. Other competing apps mainly target women and are limited to using only the weather or social occasion as clothing classifiers, while our app is meant to be inclusive and help those of all ages and genders who have trouble deciding what to wear.

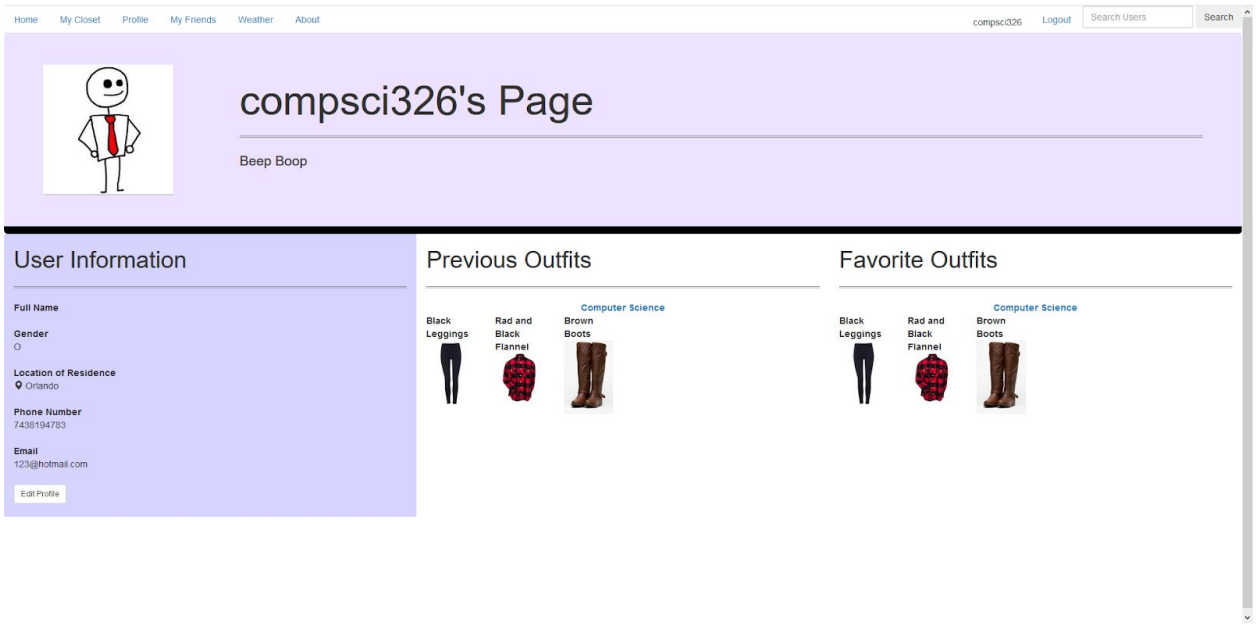
User Interface:

1. Index/Home Page - Main navigation page which then turns into a navigation bar at the top when you enter other pages. Includes a login button for a user to log in.

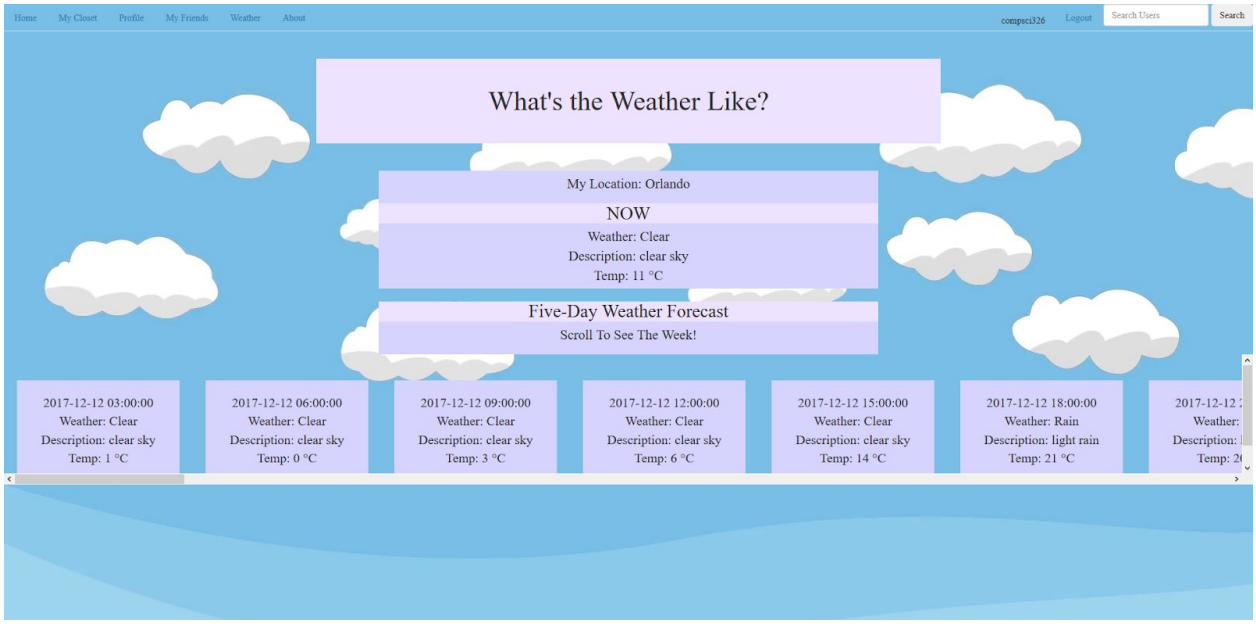
2. Closet Page- The bulk of our app. You can navigate here through the closet button in the navigation bar. This page cannot be viewed unless a user is logged in. Once they are logged in, they can see the full list of clothing they have by clicking the “My Clothing” Button, or all of their current outfits by clicking the “My Outfits” Button. They can delete items of clothing or outfits from their respective lists using the “Delete” button, or toggle favorite outfits by clicking the star icon button. A filled-in star means a favorite, an empty star means not a favorite. Finally, the top displays the current date and weather and a generated suggested outfit for that day. Users can save the suggested outfit to their closet using the “Save” button if they want. Outfit names can be clicked to navigate to the view for that particular outfit, where users can view comments for that outfit and post new comments (if they are logged in).



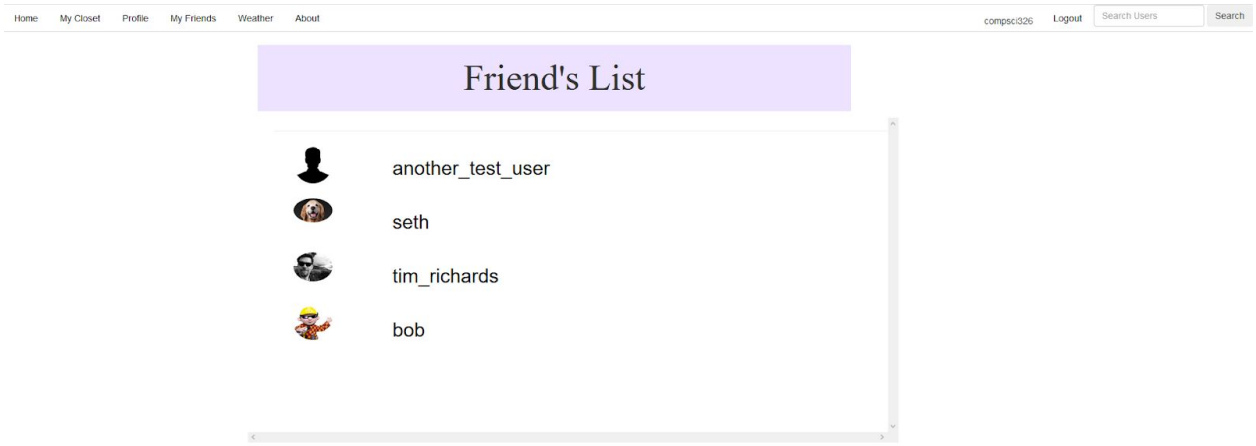
3. Profile - A user's page that cannot be viewed unless the user logs in. This includes contact information, a profile picture, and their favorite outfits and some of their most recent outfits. Users can view outfits by clicking on the outfit name (like in Closet).



4. Weather - Displays today's date and weather at the top left, as well as the weather forecast for the next five days, split up into 3-hour intervals. Weather data for this page and the closet page is queried through the external OpenWeatherMap API to get weather data in semi-real-time. Queries are made based on the city specified in the "Residence" field of their profile.

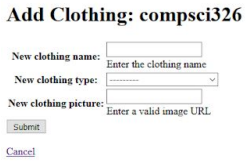


5. Friends - Displays the friend list for a certain user. You can navigate here using the My Friends button on the home page or the navigation bar.



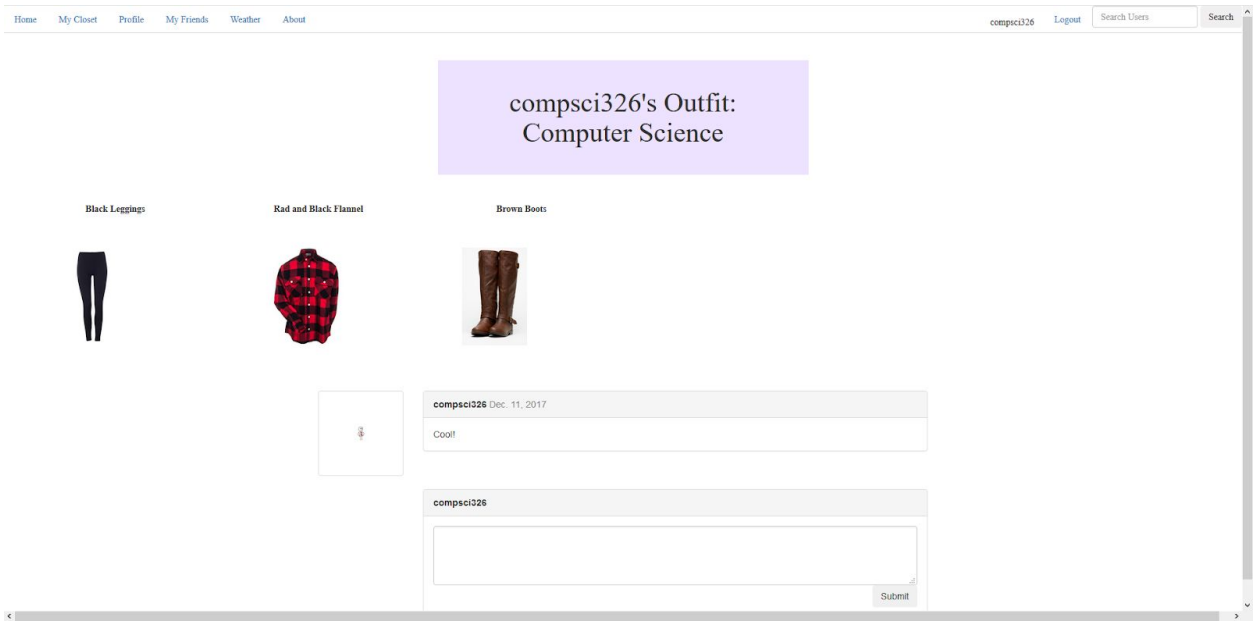
6. Add Outfit - Allows a logged-in user to add an outfit to their closet by selecting clothing from their closet. Navigable from the “Add Outfit” button under the “My Outfits” tab on the closet page.

7. Add Clothing - Allows a logged-in user to add clothing to their closet by populating the proper data model fields for Clothing. Navigable from the “Add Clothing” button under the “My Clothing” tab on the closet page.

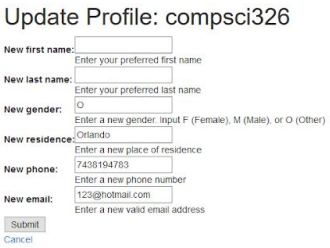


8. Save Suggestion - Allows a user viewing their closet to save the currently suggested outfit by clicking the “Save!” button on the closet page. This page asks the user to input a new name for the outfit.

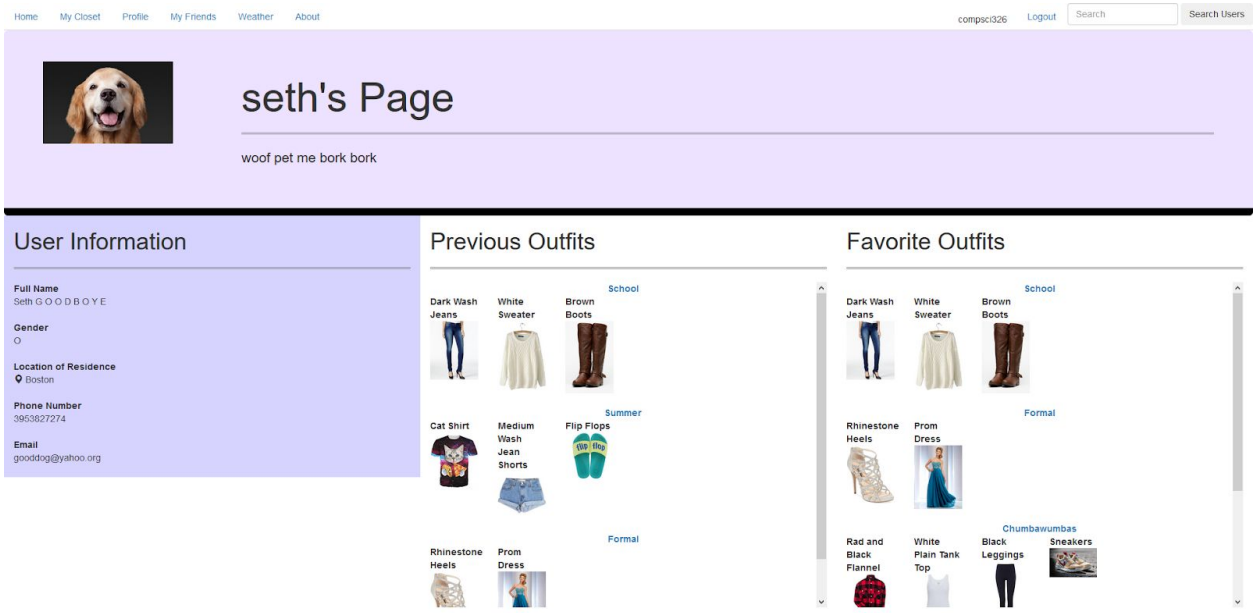
9. View Outfit - Allows users to look at saved outfits, view comments for that outfit, and post new comments (if logged in). Navigable from either profile or closet by clicking on the name above a saved outfit.



10. Edit Profile - Allows a user to update their profile information by editing their associated data fields. Navigable from Profile by clicking the “Edit Profile” button.



11. Searched User - Allows users (does not require authentication) to view the profiles of other users in the database. Navigable by typing in a known username into the search bar at the top right of the screen (on any page besides the home page). Users can view other user's outfits on from their profile and make comments, like in their own profile.



Updated Data Model: A final up-to-date diagram of your data model including a brief description of each of the entities in your model and their relationships.

We have six models implemented in Django: User profile, weather suggestion, comments, clothing type, clothing, and outfits. The user data model contains the user's information such as name, email, phone number, favorite outfits and their list of friends. Weather suggestions help our users plan for outside conditions by giving them appropriate clothing for the temperature, date, location, and the humidity conditions. Comments allowed users to comment on other users' outfits. The clothing type helps with the creation of outfits and helps you decide the appropriate clothing to wear that day. The clothing data model contains the possible types of clothing, other clothing attributes, and an appropriate weather type the clothing can be worn in. Outfits are specific groups of clothing that the user likes wearing together.

URL Mapping/Routes:

mycloset/

→ home page

mycloset/profile

→ User's profile page. Requires a user to be authenticated to view.

mycloset/weather

→ Current weather based on user's city to help decide clothing. Requires a user to be authenticated to view.

mycloset/friends

→ User's list of friends. Requires a user to be authenticated to view.

mycloset/closet

→ User's closet containing their clothing. Requires a user to be authenticated to view.

mycloset/about

→ Information about the website

profile/(?P<pk>[-\w]+)/update/

→ The “Update Profile” page for a specified user. Pk corresponds to the logged-in user’s id

closet/(?P<pk>[-\w]+)/add-clothing/

→ The “Add Clothing” page for a logged-in user to add clothing to their closet.

closet/(?P<pk>[-\w]+)/add-outfit/

→ The “Add Outfit” page for a logged-in user to add an outfit to their closet.

profile/search/

→ The profile page for a searched user using the search bar at the top of the page

closet/(?P<pk>[-\w]+)/delete-clothing/

→ The “Delete Clothing” page for a logged-in user to delete a certain item of clothing from their closet

closet/(?P<pk>[-\w]+)/delete-outfit/

→ The “Delete Clothing” page for a logged-in user to delete a certain outfit from their closet

profile/(?P<pk>[-\w]+)/save-suggestion/

→ The “Save Suggestion” page for a logged-in user to save the current outfit suggested to them at the top of their closet page

closet/set-favorite/

→ A redirect URL that maps back to the “closet” page after a user toggles a favorite outfit in their closet

closet/(?P<pk>[-\w]+)/view-outfit/

→ The “View Outfit” page for a user to look at a specified outfit by clicking on the outfit name in a user’s profile or closet. Can see the outfit and the comments for that outfit, as well as post new comments if the user is authenticated.

closet/(?P<outfit_id>[-\w]+)/view-outfit/(?P<user_id>[-\w]+)/submit-comment/

→ A redirect URL that maps back to the “view outfit” page after a user submits a new comment.

Authentication: When a user tries to access the “Closet”, “Profile”, “Friends”, or “Weather” page, they are redirected to our Login page that makes a user login before accessing the website. Once a user is logged in, they are able to view all the features of the website until they log out. Each user has the permission to view their own clothing, add/delete items of clothing, create/update outfits, and see their friends. Logged in users can see comments for an outfit and also post new comments.

Team Choice: We are using the external API OpenWeatherMap to get real-time weather data on our weather page. Using the city name corresponding to the logged-in user’s “residence” field of their profile, weather data is retrieved by querying the server each time the closet or the weather page is loaded, to update the data in real time. Two sets of data are retrieved: current weather data and forecast data. From the current weather data, we retrieve the classification, description, and temperature (in Kelvin). The temperature is converted to Celsius for our usage. For forecast data, data is queried the same way using the user’s city, but this time we receive the projected data for the next five days divided into three-hour intervals. The closet page uses the temperature from the current weather data to suggest an outfit based on certain temperature thresholds: below 5 Celsius is considered cold, between 5 and 16 Celsius is considered cool, between 16 and 27 Celsius is considered warm, and above 27 Celsius is

considered hot. The weather page simply displays the weather data for right now at the top and then displays all of the forecast data below.

Conclusion: Overall, this was a challenging project to work on. Most of our team came in with little to no experience with web programming before, so it was a large learning curve to pick up these technologies. Over the course of the semester, we figured out roles in the team based on what people were more comfortable to work with (ex: Github/CSS/models, etc.) and we were able to divide up work almost equally. As a team, we had troubles with coordinating schedules, procrastination, and ran into a lot of technical difficulties towards the end, especially fixing the CSS to work with all the additional functionalities and changing the static data to be more dynamic. If we came in with some more knowledge of web programming, we could have made our website more professional and advanced, and possibly avoided a lot of the initial setup issues and coding bugs. However, we worked well together and learned a lot throughout the semester.