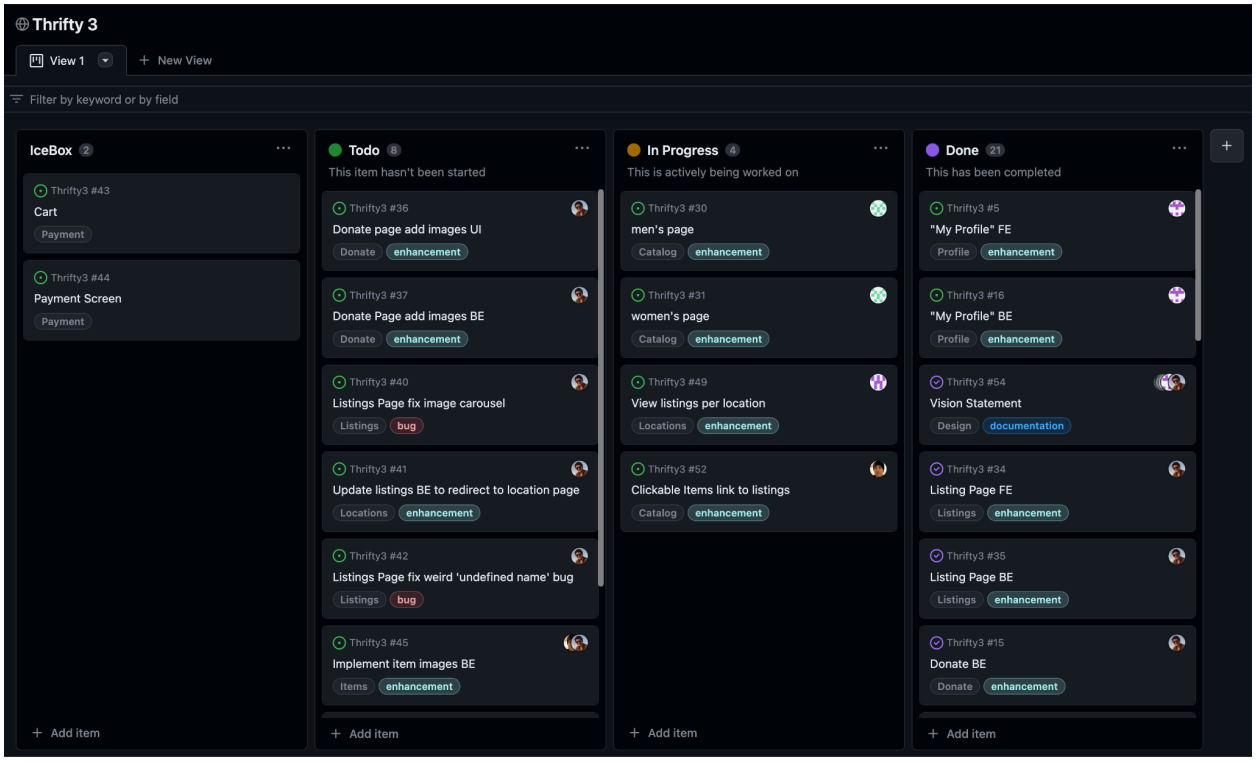
Title: Thrifty3

Who: Jake Borsheim, Emma Nickel, Devin Rocha, Josh Roy, Noah Tabori

Project Description: Thrifty3 is a unique online thrift-store that has been created by a group of University of Colorado students. Our aim is to provide an innovative platform for buying and selling second-hand clothing. The platform is designed to offer a user-friendly experience that allows fellow students to find the items they're looking for. Our range of available items includes shirts, pants, hats, hoodies, jackets, shorts, and backpacks which users can filter between to find the perfect selection. We offer multiple pickup locations throughout the campus, making it a convenient option for students who live in the dorms or wander past certain areas on their way to and from classes. For only $3, you can become part of Thrifty3. It's time to get thrifty!

Project Tracker - GitHub project board:

- **Github Project Board**: https://github.com/users/jaborsh/projects/2



VCS: https://github.com/jaborsh/Thrifty3

Contributions:

Jake: I built the catalog page as well as the methodology for sorting by text search or categorical filter. Additionally, I built out the test cases for the login and registration API calls. On the catalog page, you receive a full list of all the items stored in Thrifty3's catalog. These items include links to the listings page where an add-to-cart option, created by Devin, is present. Filtering and searching uses two separate get API calls, /filter and /search respectively, with appropriate SQL queries to handle the requests. I also created the GitHub repo, maintained consistency within the Github Project Board, often lending labels and epics to otherwise undocumented items.

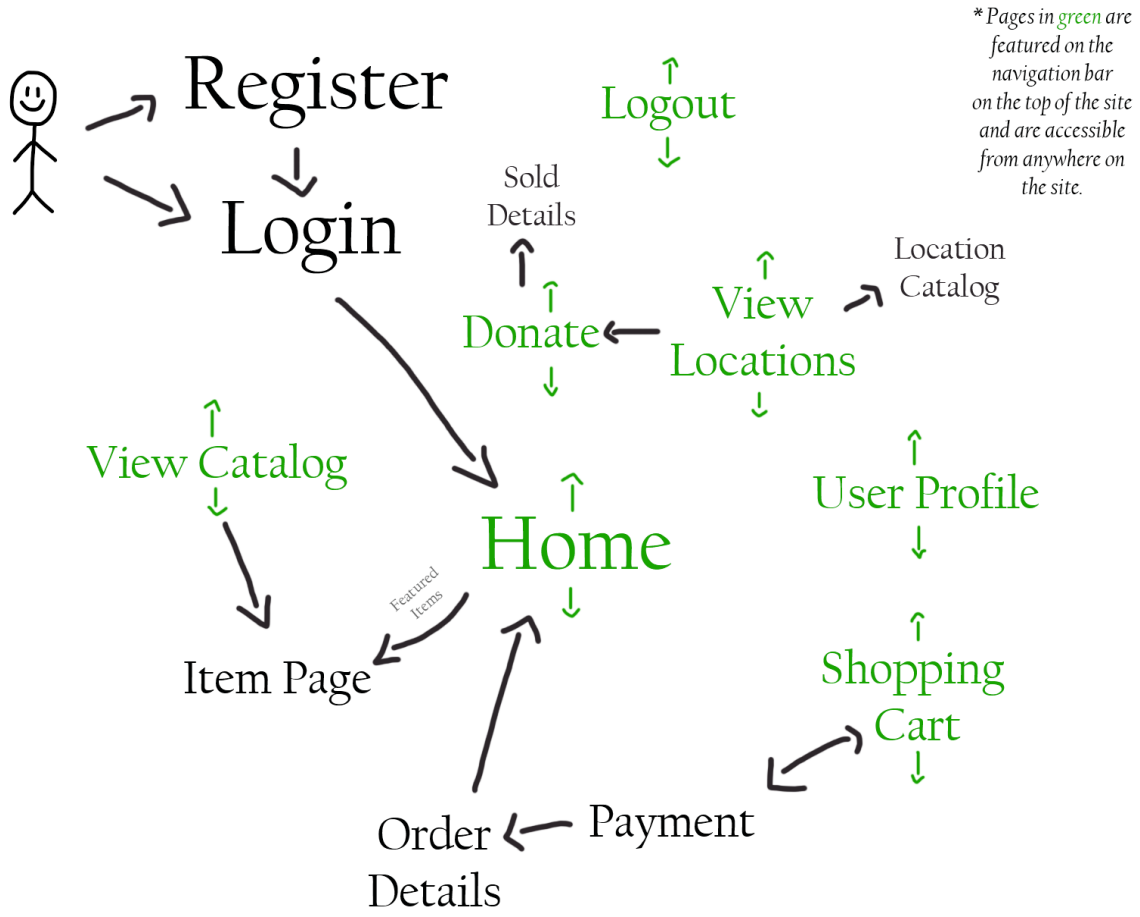
Emma: My main contributions focused on user registration and profiles. I created the login, registration, and profile pages and wrote the corresponding APIs. With my contributions, users can register and login to their own unique profile. Their profile information is then displayed on a profile page. On the profile page, users can choose to edit their information. To add this feature, I wrote a post API that takes in user input and updates the database. Additionally, I was in charge of much of the administrative elements of this project. I organized group meetings, deadlines, and ensured we were meeting all requirements.

Devin: My main contributions to this project included the design and implementation of our database as well as the donate, individual listing, individual location, and cart pages with its appropriate API routes/backend. Additionally, I created the header/navbar, including the visible logos and icons. The donation page takes information such as item title, description, size, color, etc. from a bootstrap form tag and pushes that information to the item and listings table within the database. The page also serves as a 'my listings' page where users can view listings that they pledged. The other pages simply grab information from the database (i.e listings, location detail) and display it to the viewer, including any photos that correspond to what is shown.

Josh: For this project my contributions included working on the Men and Women's pages.Where I found and uploaded images into our repository. On these pages you can browse the current items that are possible for pickup in the store. This can be used by an easy to scroll carousel.The images included are backpacks, purses, hats, hoodies, sweatshirts, jackets, pants, and shorts. I also worked on the deployment of our website on the cloud. This is where I looked through the options in Microsoft Azure. I set up a virtual machine and created a private key that we could use with our website.

Noah: The bulk of my contributions for this project pertained to our Locations page. Here the user is able to see every place on campus that our thrift shop sells close, and I wrote API routes that join lists in our database, allowing all specific listings to be displayed in subsections for each location. I additionally helped by writing test cases for some of our different APIs as needed while we framed out the project, as well as fixing errors in how we set up our database as the problems popped up.

Use Case Diagram:



Test results: Our test plan from lab 11 focused on three main features: user registration, browsing, and saving an item to cart. We conducted tests internally and externally in which we used test data and accounts to ensure there were no bugs and everything functioned properly. User registration was a fairly easy feature to add. To create this feature, we followed a similar format for APIs as previous labs. Browsing was more complicated since we could not figure out how to integrate our filter and search functions together. Currently, the browsing functionality only allows users to use the filter and search functions separately. Lastly, saving an item to cart had two phases in development. We initially had the cart data saved for each user. So a user would have to be logged in in order to save an item to cart. We changed this functionality due to the observations from our testing.

To test the features from our Lab 11 test plan, along with other features, we had several peer testers - all friends from other courses. We wanted to explore how users would interact with the site without any interference from us. So we opened the website for our testers then gave them free reign to interact with any feature. Some testers immediately clicked on the registration

button and created accounts then logged in. There were no problems with user registration. We have error messages set up in case a user types in invalid information for both the registration and login page. Other testers did not immediately register. Instead, they wanted to browse the catalog page before creating accounts. Users found the catalog page somewhat confusing and frustrating since the search and filter functions do not work together. We tried to add the functionality of them working together but could not figure out how to do that without getting a lot of errors and still getting accurate results. With more time, this would be a feature we would like to implement. Since some testers choose to browse before registering for accounts, we noticed that those users wanted to save items to cart then register for an account and find their items listed. During development, we did not think about allowing un-logged in users to save items to cart, log in, then see their items. We thought this was a cool feature to add and would function more similarly to other online clothing vendors. As a result, we changed how items were saved to cart. Rather than saving items to the user data, we saved items in the session. This would allow users to save items to cart then log in and still see that same cart.

Deployment: Was deployed via Azure at
http://recitation-10-team-03.eastus.cloudapp.azure.com:3000/