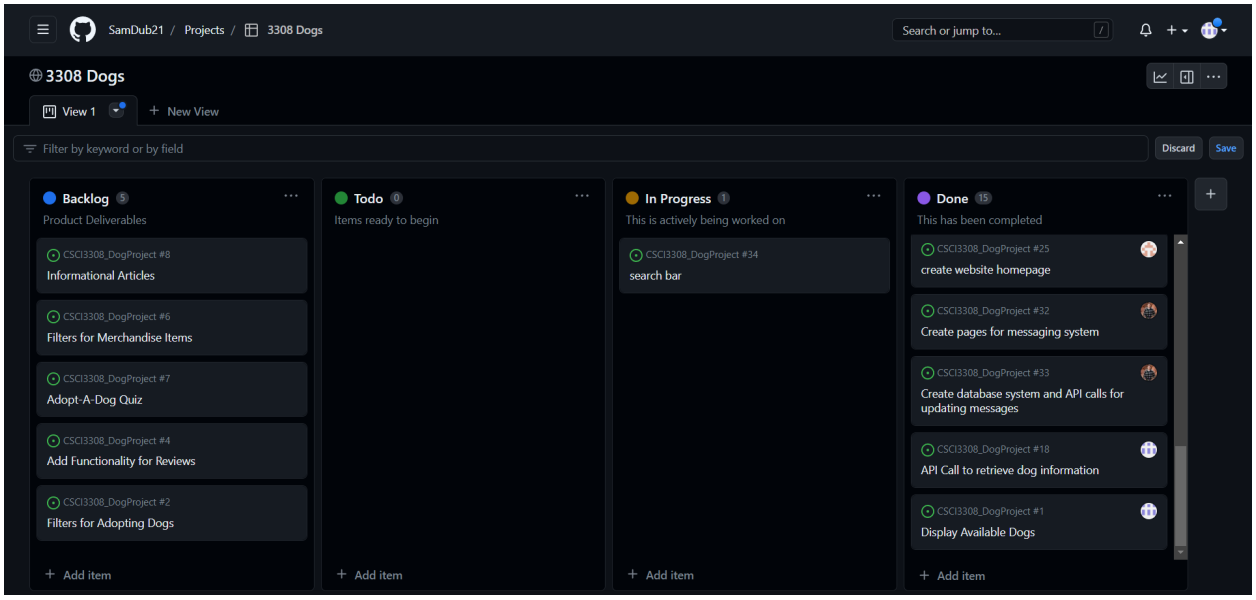
Recitation 013 Team 1 Dog Project Report

Project Summary:

The goal of this project was to create a website that would allow users to register for an account, login to that account, and then be able to look at dogs and communicate with shelters through the website. As an additional feature, we included a marketplace that displays a selection of products that are recommended for dogs, and links to the Amazon storefront where they can be purchased. This was accomplished through a series of API calls that populate the dog search page and the marketplace page with available dogs or products from our database. We hosted this database using PostgreSQL which allowed us to create dynamic tables for our information. The pages of the website were created using EJS. This enabled us to use only javascript to generate the HTML pages of the website. The website is hosted on azure which allows for remote access to the project.

Project Board:

Link: https://github.com/users/SamDub21/projects/1/views/1?layout=board



VCS:

Link: https://github.com/SamDub21/CSCI3308_DogProject

VIDEO:

https://drive.google.com/file/d/1HOWfeYvezRiRHasdGlWtoLJ9uB8eZI9o/view?usp=sharing

Contributions:

Andy Gusty :

For the project, I created the local messaging system used for communication between users. This involved creating the messaging pages, creating a database with SQL, creating API calls to render the

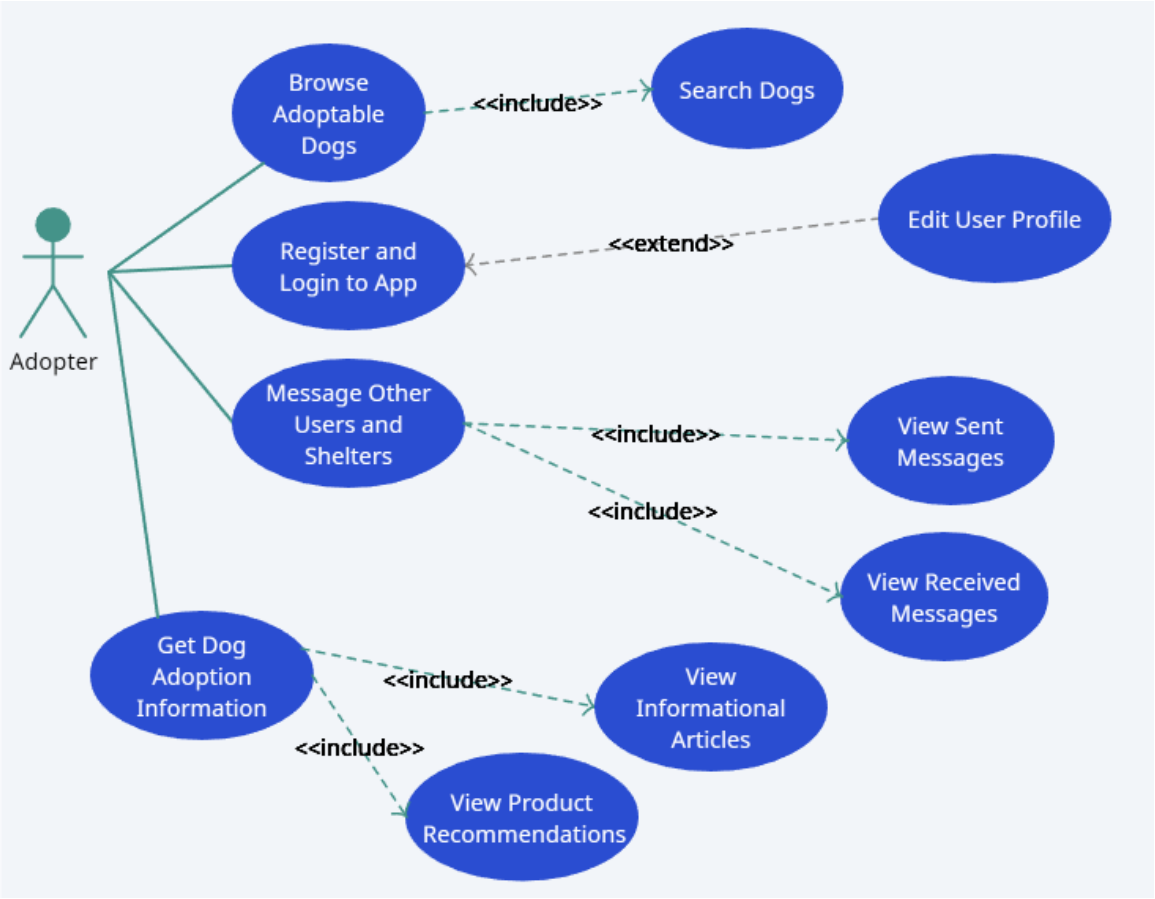
message pages and send/receive messages. Additionally, I made the EJS partials used as the framework for our front-end and improved the CSS styling of our front-end pages.

Jackson Cockrum :
For the project I set up the website file structure as well as configuring the server and database. I also helped with adding bootstrap elements, CSS, and other formatting. I created the login page, registration page, home page, user profile page, as well as the edit user profile page. The features I implemented were the login + registration functionality, the user profile page, the ability to edit the user's profile, and some basic get APIs to display pages.

Sam Dubois :
For the project, I worked with the external API calls and formatting the search page that displays all of our dogs. I tried to use the petfinder API but ended up using the dog API. This gave us an image of a dog and some data about it.

Bipin Bisural:
For the project, I created the marketplace where the clients can find food, toys and hair care for their dogs. I tried to find an API for the products for dogs but I later realized that we had to do web scraping to make the API. I couldn't find an API that was free as well so I ended up making a table in the database to store the information about the products and I had to make an API call to access that information to display into the marketplace page. I added some bootstrap and CSS elements to make the website look pretty.

Use Case Diagram:



Test Results:

Use Case 1: Successful registration

Test Data: Valid username, first name, last name, valid email, and password

User Activity: Users enter information into form and presses the register button

Expected Result: User is given a registration success message and redirected to the login page

What is the user doing?

-Registering a new account.

Is their behavior consistent with the use case?

-Yes

If there is a deviation from the expected actions, what is the reason for that?

-The user had some difficulty finding the URL for their profile image. This is probably because they are more used to submitting a file rather than a URL.

Did you use that to make changes to your application? If so, what changes did you make?

-No but in the future it would be better to change the database to store image files rather the URLs

Use Case 2: Successful login

Test Data: Valid username and password

User Activity: User enters username and password and presses the login button

Expected Result: User is logged in and sent to the home page

What is the user doing?

-Logging into their account

Is their behavior consistent with the use case?

-Yes

If there is a deviation from the expected actions, what is the reason for that?

-No

Did you use that to make changes to your application? If so, what changes did you make?

-No

Use Case 3: User successfully sends a message to another user

Test Data: Valid username and password pair, second valid username, message content

User Activity: User logs in and goes to message page and sends message to second user

Expected Result: User sees their message in the sent column

What is the user doing?

-Sending a message to another user.

Is their behavior consistent with the use case?

-Yes

If there is a deviation from the expected actions, what is the reason for that?

-No deviation.

Did you use that to make changes to your application? If so, what changes did you make?

-No

Use Case 4: User successfully edits their profile

Test Data: User account, edits for profile

User Activity: User goes to the profile page and selects edit form. User enters desired changes and presses the save changes button.

Expected Result: User is redirected to the profile page and sees expected changes.

What is the user doing?

-The user is editing their profile.

Is their behavior consistent with the use case?

-Yes

If there is a deviation from the expected actions, what is the reason for that?

-No deviation.

Did you use that to make changes to your application? If so, what changes did you make?

-No

Deployment:

Our application is deployed on Azure, a cloud computing service by Microsoft. As a part of their offerings to students, we were able to receive 750 hours of free usage of an Ubuntu host. On this host, we ran the web server and database server required for our project inside a docker container. The application can be viewed live at the following link:

http://recitation-013-team-01.eastus.cloudapp.azure.com:3000/