TurboTransit

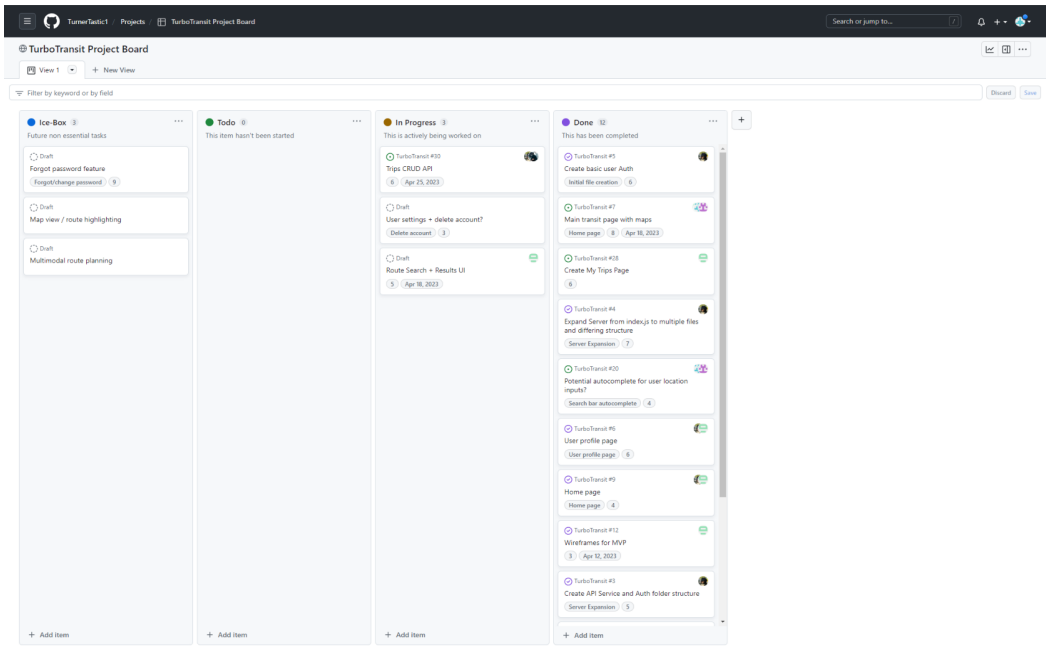
Jack Paulman, Mia Waddington, Turner Naef, Jusung Kim, Tavin Turner

Project Description

TurboTransit is a website that aims to create a community intent on maintaining a friendly ride sharing service and bring together people traveling to similar destinations. Upon signing into the website, users are greeted with their profile page showing their friends and trip history. They can then navigate to either the ‘messages’ tab, showing messages they have had with other users, the ‘discover trips’ tab or the ‘my trips’ tab. From the my trips tab users can view their current trips and create a new trip. Each trip contains the departure location, destination, purpose of travel, time of departure and the number of available seats. Finally, the discover trips page allows users to view all available trips and join any that match their search. This website aims to reduce traffic congestion and harmful emissions while supporting travelers in a cheap and easy way. All you need to do is sign up and start carpooling!

Project Board

https://github.com/users/TurnerTastic1/projects/3



Video

https://drive.google.com/file/d/1ik_-E-ya9Jz2g8Qlu4Q4naIHrkIdkuku/view?usp=sharing

Link to Github Repository

https://github.com/TurnerTastic1/TurboTransit

Contributions

Jack Paulman

I have been working on the front end of the project. I have added css to the update page from the profile. I have worked on the info button to give the pop up. I used javascript to create a function to make the pop up. I worked on the database a little with mia to connect users to trips and created the trips table as well as a few insert lines to give us false info to move around. Have also worked around the page fixing positioning and looks of other elements in css.

Jusung Kim

I implemented the Google Maps service on the transit page to provide users with visual travel information and the convenience of searching using the transit page and text autocomplete function. Additionally, I collaborated with Mia and Jack on the front-end development. Specifically, I created a transit page file based on Mia's wireframe and adjusted the CSS of the page to align with our team's brand design. I also worked on fixing the positioning and appearance of other elements on the page using HTML and CSS.

Mia Waddington

For this project I was assigned front end work and endeavored to implement an effective UI. This started with creating basic wireframes for my team as well as developing a color scheme, logo and vision statement. Specifically I created the Home, My Trips, Profile and Edit Trips pages along with their respective API routes. In addition to this, I added a map using leaflet to the Discover Trips page, and made minor edits on all pages to ensure a cohesive UI. I also created the User Acceptance Tests and worked with Jack to create some dummy data and the trips table in the database.

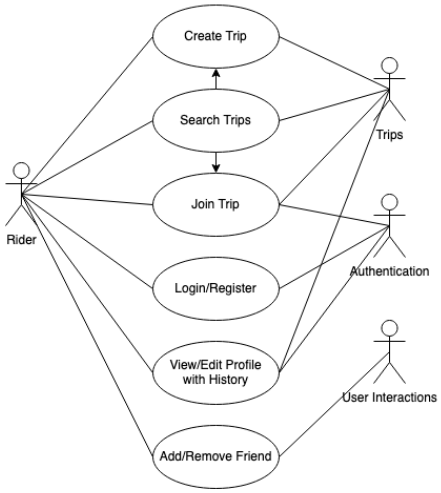
Tavin Turner

Throughout the project, I've floated through frontend, backend, architecture, and project management. The majority of my time was spent on the backend developing major features and queries, especially designing and finding expandable implementation options for our fundamental architecture (users, trips, ridership) as well as higher-level, non-database-driven concepts (like history). Since I had the closest thing to full-stack experience among the group, I worked to refactor quick backend implementations to be compatible and intuitive for new frontend features, as their implementations were often distributed throughout the group.

Turner Naef

For this project I was assigned mainly back end tasks and began the project by implementing my lab 9 code that consisted of basic authentication and a few API calls. I then began expanding our server code from purely being located in our main file (index.js), to multiple files like authRoutes, messageRoutes, etc. The goal with this task was to reduce the complexity and time spent in development, scrolling through index.js. Another similar task I did was moving database functions from the route files to their own files like authQueries etc. I also created user messaging, friends and trip displays.

Use Case Diagram



Use case diagram for TurboTransit

Test Results

Unit testing was a natural part of test-driven development once we got our footholds, see the final version's unit tests below.

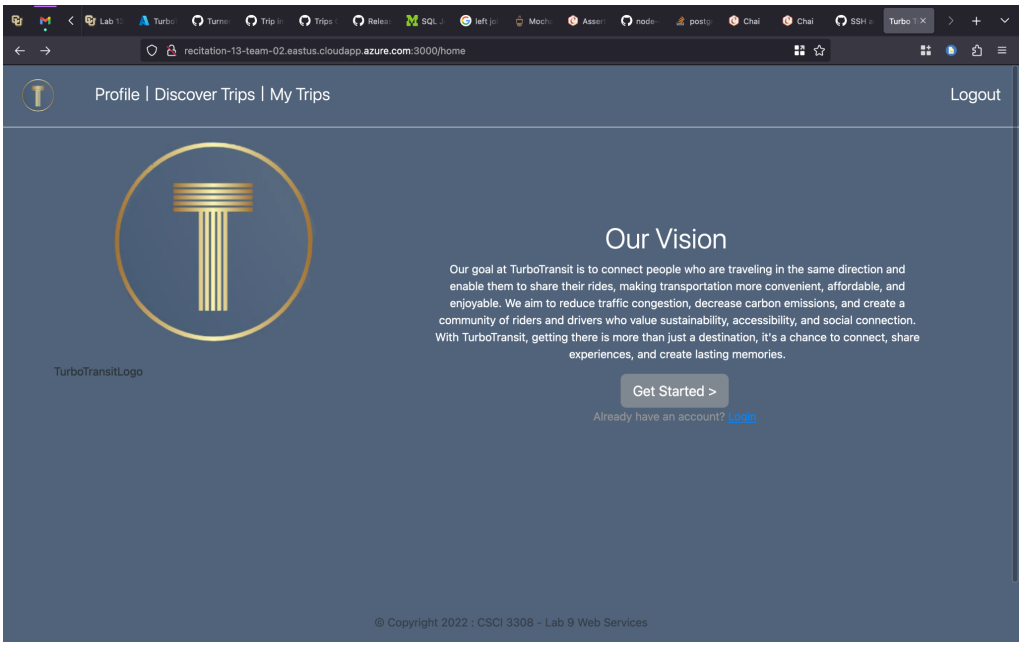
```
✔ TestAccount1 not found
✔ Engineering Center, Université du Colorado - Boulder, Engineering Drive, Boulder,
Colorado, États-Unis deleted
✔ Colorado School of Mines, Illinois Street, Golden, Colorado, États-Unis deleted
✔ jeremias deleted
✔ TestAccount2 deleted
✔ pritam deleted
✔ tswizz deleted
✔ beyonce deleted
✔ pitbull deleted
  Server!
       ✔ Returns the default welcome message (69ms)
       ✔ Connects to database

  Register!
       ✔ Registers user beyonce (225ms)
       ✔ Enters beyonce into database
       ✔ Registers user pitbull (113ms)
       ✔ Enters pitbull into database
       ✔ Registers user tswizz (106ms)
       ✔ Enters tswizz into database
       ✔ Registers user pritam (92ms)
       ✔ Enters pritam into database
       ✔ Registers user jeremias (87ms)
       ✔ Enters jeremias into database
       ✔ Postive - user creation with more info (193ms)
       ✔ Negative - Missing username or password (52ms)
```

```
  Login!
       ✔ First user in database
       ✔ Logs in (111ms)
       ✔ Positive - user logout (40ms)
       ✔ Negative - Missing username or password

  Trips
✔ Engineering Center, Université du Colorado - Boulder, Engineering Drive, Boulder,
Colorado, États-Unis not found
✔ Colorado School of Mines, Illinois Street, Golden, Colorado, États-Unis not found
       ✔ Logs in (109ms)
       ✔ Route Colorado School of Mines, Illinois Street, Golden, Colorado,
États-Unis creates (50ms)
       ✔ Route Engineering Center, Université du Colorado - Boulder, Engineering
Drive, Boulder, Colorado, États-Unis creates (54ms)


  21 passing (2s)
```

Unit tests of final TurboTransit release at origin/main

Deployment

Although development remained on localhost for its ease of use under our undemanding requirements, we would test production deployments on Azure at http://recitation-13-team-02.eastus.cloudapp.azure.com:3000/home (see below!)



TurboTransit deployed on Azure compute node