Metro Madness

The Safest Way to Travel

Concept

What is the problems that the product solves?

Real time data of where your current transport is, including if it's; on time or has been delayed with warning to the user. The open chat forum allows the users to connect to other users of the same route to be able to communicate and update each other for FREE!

How does the product solve that problem?

Users can use the chat feature to talk to other commuters on the route and find out where their transport is, if it's on time, or, has been delayed due to an accident or road works etc. This gives the end user the opportunity to find alternative transport to get to their destination on time.

Concept continued

User story

As a user I want to know if my transport is running on time. So that if the bus or train is not running on time or delayed, I can organise alternative transport to get to my destination.
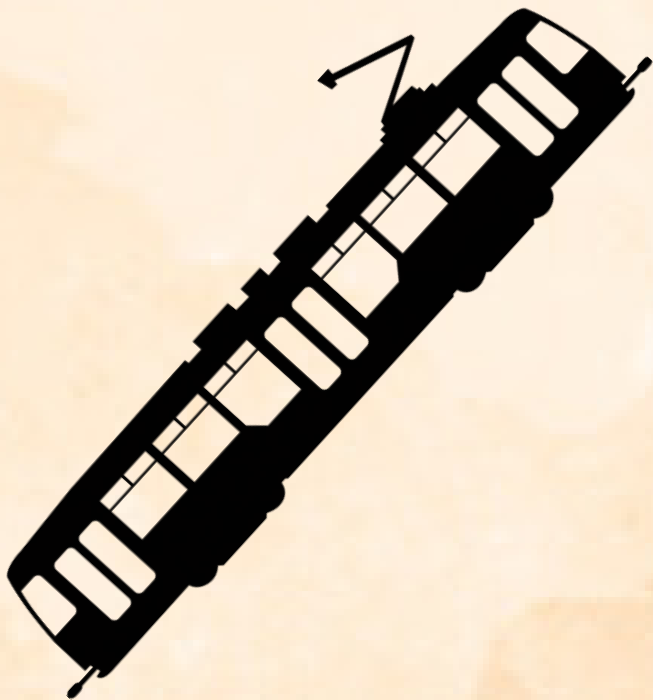
As a user I want to create an account and have my data stored privately and securely.

Once logged into the application I want to be able to view available bus/routes from a map. Using the map I can hover over the pins on the map and using geolocation it will show me the bus/route number so that I can select my appropriate route I wish to take. Once my route is selected I want to be able to get real time data of that route.

I also want to be able to connect and chat freely with other commuters on my transport route.

Audience (Target Market) - Split into 2x Main Target Audiences

- People of all walks of life who use and rely on public transport for either work/recreation to get to their chosen destination.
- Parents who have adolescence children that are transitioning to be trusted to catch public transport on their own. The parents can easily chat to them and also track them on their bus/tram/train.
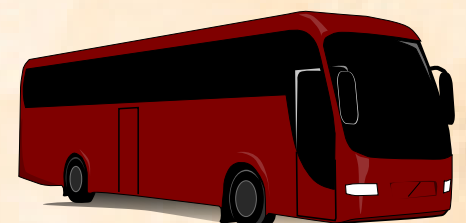
Process

1. Applied Technologies

- Handlebars, CSS, Bootstrap, JavaScript, MySQL, Node.js, Express.js, Sequelize, Socket.io, Leaflet, Animate.CSS, GTS RealTimeBindings, GitHub, Heroku, Adelaide Metro API's.
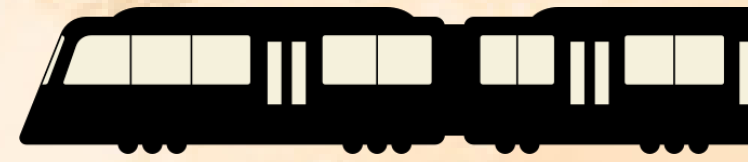
2.Challenges

2.1) *Technical Challenges that we had to overcome*:
- Acquiring & storing the desired data from the APIs, in particular the Bus Route proved tricky.
- Implementing & displaying acquired API data on the webpage whilst integrating to a chat feature.
- Local storage was not saving and showing in chat logs.
- Commiting, merging & managing multiple branches across the team to ensure GitHub was clean.
- Getting SQL to work in Heroku and display data correctly proved tricky.

2.Challenges(Continue)

2.2) *Time Barrier:*

- Multiple team members had various outside commitments which we had to be respectful, whilst keeping the project's overall momentum.

2.3) *Workload Distribution:*

- We had to be mindful of the Workload. With tasks allocated equally amongst the team to ensure everyone had equal contribution to the team work.

3. *Successes*

- We manage to display a real time map of all Adelaide Metro Buses, Trains and Trams that shows precise locations.
- Integrating a chat feature that overlays and pulls data from the Adelaide Metro API for various information.
- We manage to save and shown local storage data on history tabs such as previous Chat Log and Chat Rooms.
- Met some awesome people and life long coding friends ☺
- Working dynamically as a team to push our branches/repos using Git and Heroku.
- Consistently met our individually set goals and action plan.

TEAM MEMBERS

ISLAM
MUHAMMAD

BREA GRINDLEY

MANOJ ADIKARI

BENJANMIN
ARMSTRONG

Metro Madness

1. BENJAMIN ARMSTRONG
   - TEAM LEAD.
   - HTML (HANDLEBARS), CSS, JAVASCRIPT, LEAFLET (MAP) CREATED WIREFRAME & DEVELOPMENT PLAN.
   - HELD 1ST SCRUM MEETING.

2. BREA GRINDLEY
   - JAVASCRIPT, CSS, HANDLEBARS.
   - HELD 2ND SCRUM MEETING.

3. MANOJ PRIYANKARA ADIKARI
   - JAVASCRIPT, SQL, API.
   - HELD 4TH SCRUM MEETING.

4. ISLAM MUHAMMAD
   - JAVASCRIPT, API, CSS, LEAFLET (MAP), SOCKET.IO INTERGRATION.
   - HELD 3RD SCRUM MEETING.

Metro Madness

Initiate

DEMO

Future Development

- ·Add an RSS feed to inform users about any delays, breakdowns and accidents.

- Open API capability to handle all Australia as MVP is currently limited to Adelaide.

- Adding more user friendly features such as:
  - Access frequently used chat/bus routes
  - Adding ability to instantly connect to nearby busses, train etc.
  - Add ability to search transport timetables from Adelaide Metro.

DEPLOYMENT

APRIL 2023

GITHUB REPO

https://github.com/BenArmstrong81/MetroMadness