Along The Way

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Description

Our project is a road trip planning app that allows users to store their average mpg and tank capacity of their vehicle with their login data. The road trip planner in the app allows you to search and route destinations and provides fuel economy information for the trip. The road trip planner is also able to find places of interest along the way and map out results within your route.

Features

- Gas Calculator
- Autocomplete function for destinations
- Ability to add stops to the route
- Map integrated on the main page
- Dynamic header with login conditionals
- Login authentication within the Front End

Planning - User Stories

- Our users can create a road trip route using our application.
- Our users can utilize our gas calculator to plan their road trip based on the fuel economy of their vehicle and will let the users know the minimum amount of fuel stops required to get through their route.
- Our users can utilize login to store their vehicles relevant information.

Planning - Database

We have a single database called ‘users’. This database stores id, username, password, mpg, and tankCapacity. All the necessary data is stored in this single table, and each record represents a unique user. Any operations done on the data (like determining how far a user can travel on a full tank of fuel) can be performed using the data contained within a single record.

Technology Stack

- Typescript
- Angular
- Java with Spring Boot
- MongoDB
- Google Maps API
- Open Weather Api

Demo

What I Learned

- I dove much deeper into Angular this time, I also had a decent amount of experience with MongoDB in this project. I configured the page routing for the project which was something I had really wanted to get out of this. I am also far more confident in generating and incorporating new components.
- Setting up databases and getting the back end to talk to them, and then getting the front end to talk to back end.
- Some of the toughest features I had to implement worked directly with Google Maps API, generating the map on our home page and mapping the route into that map, from the destinations I made with autocomplete functionality. Getting my application to talk with Google was quite a learning experience.

What's Next

- Gas Station Finder
- Fixing that last minute bug with autofilling mpg and tankCapacity (I had just got it working!)
- I want to learn a new framework and I have a friend who really wants to get into LaunchCode, I'd like to collaborate with him as we both seem really driven to succeed in this industry.