BestFuel
KYOT
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We will demonstrate the following functionalities of our app during the demo.
1. User Registration
2. User Authentication.
3. Showing the various options you can do once logged in.
4. Managing your profile.
5. Showing the get gas now user scenario.

Current Progress and Difficulties

Our app has the following features working.
1. User Authentication and Registration.
2. Managing a profile limited to a single car.
3. Developed a Database to store user data and station data on remote server and built an REST api to access it.
4. Get Gas now feature: once logged in users can navigate to our get gas now page, the user's location will be used in calculation to find the most economical fuel station near the user. Once the map loads a route to the most fuel economical station is plotted. The user can also see markers for other gas stations nearby. If the user touches a marker a window pops up displaying the station information including trends in prices.
5. Support for Android, Blackberry phones/tablets. (Our app does not use google play service so it will work on devices such as any blackberry phone, amazon kindle and eventually windows phone.)

Difficulties:

We have experienced difficulty in retrieving our gas station price data for our app. There are no public apis available with up to date gas price information. We had to build our own api and database to use with our app which was very time consuming.

Planned Development in the Next Month

- Finish plan a route feature
- Use Distance Matrix API in algorithm for road distance instead of using "point distance"
- Finish profile page
- Store in Local Database more user data
- Fix various bugs improve speed of map loading
- Rate this app feature possibly facebook login if we have time.