How to Use this Template

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Submission Instructions

1. After you've completed all the sections, download this document as a PDF [File → Download as PDF]
2. Create a new GitHub repo for the capstone. Name it "**Capstone Project**"
3. Add this document to your repo. Make sure it's named "**Capstone_Stage1.pdf**"

GitHub Username: Your GitHub username here

Your App Name Here

Description

Track mileage and fuel consumption. Help manage fuel costs and remember where you've fueled up, and at what price.

Intended User

This app is primarily aimed at people who wish to track their vehicle mileage, or budget their fuel expenses

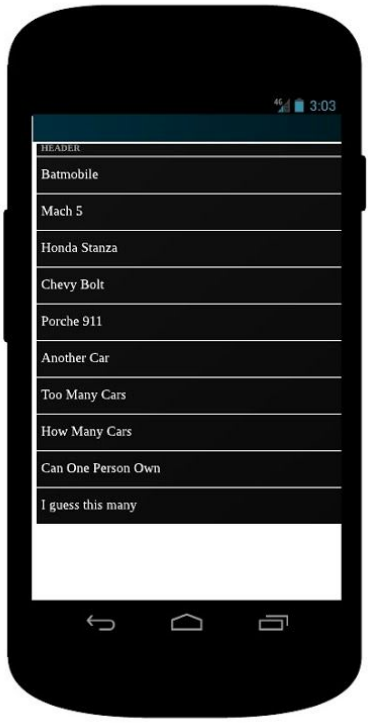
Features

- Saves fuel price, mileage, and other vehicle data data locally
- Provides fuel efficiency calculations per vehicle per fillup
- Displays fuel purchase locations using the google maps API
- Uses google drive API to backup user data
- Uses admob API to provide advertisements

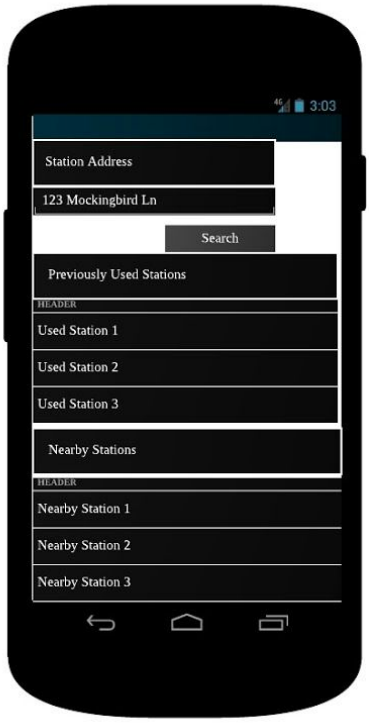
User Interface Mocks

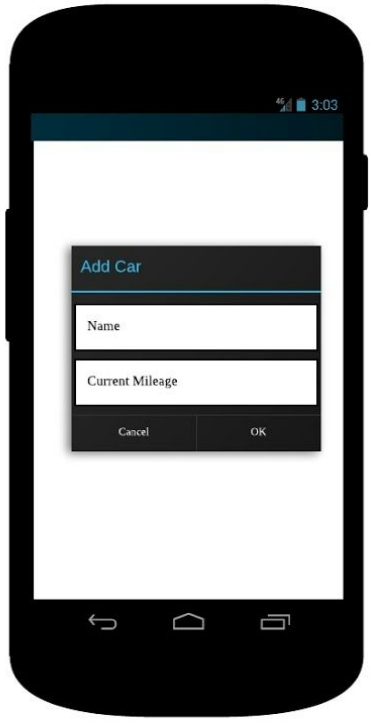
Car Detail View

Car List View

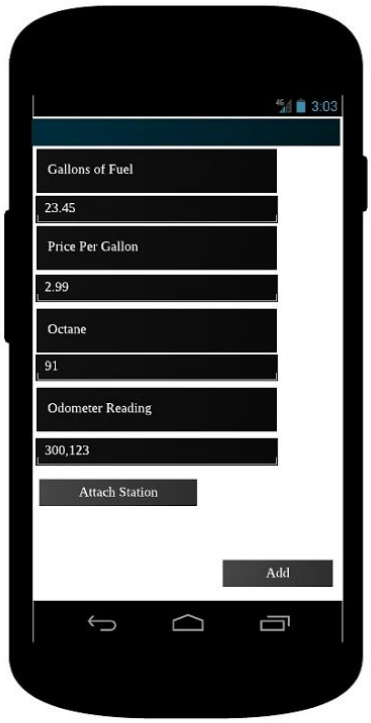


Select Station View

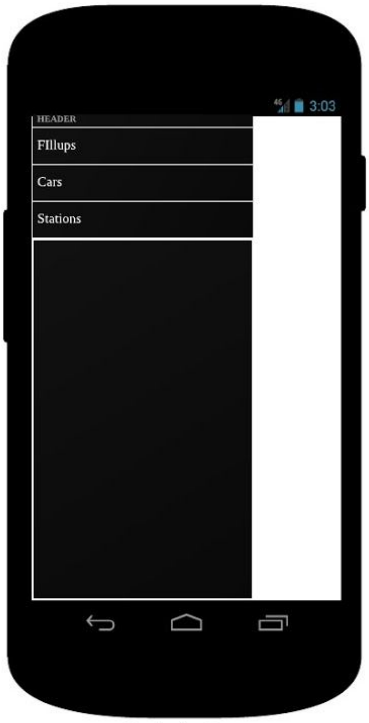




Add Vehicle View



Add Fillup View



Navigation Drawer

Add as many screens as you need to portray your app's UI flow.

Key Considerations

How will your app handle data persistence?

The app will use a SQLite database with local content provider for local data storage, and the google drive API to backup user data

Describe any corner cases in the UX.

The app will allow users to add and/or edit past fill ups if they forget to log it, or if they've made a mistake entering it. The app will also backup all of their user data in the case of phone or app loss.

Describe any libraries you'll be using and share your reasoning for including them.

The app will use Dagger 2 and Butterknife for architectural reasons, Google Maps for location services, Google Drive for backups, Admob for advertisements,

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and decompose them into tangible technical tasks that you can complete incrementally until you have a finished app.

Task 1: Project Setup

- Configure libraries
- Identify dependencies and build modules for Dagger 2
- Plan and implement skeleton for MVP architecture

Task 2: Implement Model Layer

- Implement Database Provider
- Implement Content Provider
- Implement Google Drive API classes

- Implement Google Maps API classes
- Build data models

Task 3: Implement View Layer

- Create String and image resources
- Build interfaces for activity and fragment design
- Implement activities and fragments

Task 3: Implement Presenter Layer

- Create data translation classes
- Implement adMob classes
- Bind view classes to presenter classes
- Bind presenter classes to model classes

Task 4: Implement Paid App Version

- Create paid flavor of app
    - Remove admob from paid app

Task 5: Generate APK, Prepare for deployment

- Generate app flavor keys
- Create APK

Add as many tasks as you need to complete your app.

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