

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”**
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[Description](#)

[Intended User](#)

[Features](#)

[User Interface Mocks](#)

[Screen 1](#)

[Screen 2](#)

[Key Considerations](#)

[How will your app handle data persistence?](#)

[Describe any corner cases in the UX.](#)

[Describe any libraries you’ll be using and share your reasoning for including them.](#)

[Next Steps: Required Tasks](#)

[Task 1: Project Setup](#)

[Task 2: Implement UI for Each Activity and Fragment](#)

[Task 3: Your Next Task](#)

[Task 4: Your Next Task](#)

[Task 5: Your Next Task](#)

GitHub Username: komalrs18

Mileage Tracker

Description

Track your fuel and mileage consumption with this app.

Intended User

This is an app for any driver who wants to track their mileage and fuel consumption.

Features

- Save fuel price, mileage, and other vehicle data data locally
- Provide fuel efficiency calculations per vehicle per fillup
- Display fuel purchase locations using the google maps API
- Use google drive API to backup user data
- Use admob API to provide advertisements

User Interface Mocks

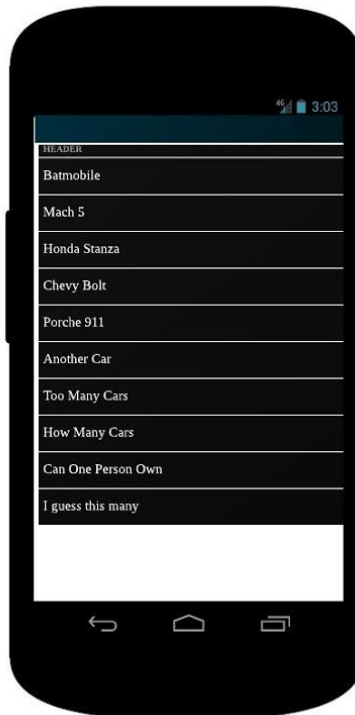
Car Detail View



Car Detail View mockup showing a car named Batmobile. The screen displays fields for Current Mileage (450,000), Average MPG (10Mpg), Last Fillup MPG (5Mpg), and Last Fillup Date (1/4/2011). A Fillup button is visible. Below is a table of fillups.

HEADER		
1/4/2011	30 Gallons	2.99 /Gallon
1/3/2011	25 Gallons	1.24 /Gallon
1/1/2011	99 Gallons	9.99/Gallon

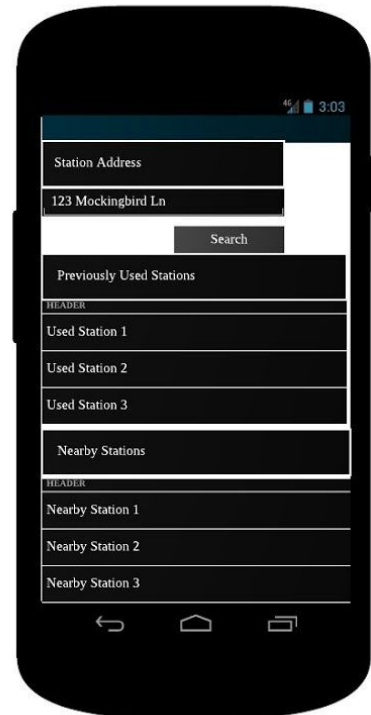
Car List View



Car List View mockup showing a list of cars. The list includes Batmobile, Mach 5, Honda Stanza, Chevy Bolt, Porche 911, Another Car, Too Many Cars, How Many Cars, Can One Person Own, and I guess this many.

HEADER
Batmobile
Mach 5
Honda Stanza
Chevy Bolt
Porche 911
Another Car
Too Many Cars
How Many Cars
Can One Person Own
I guess this many

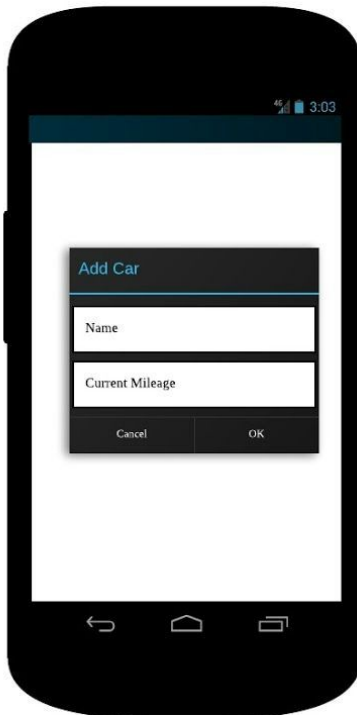
Select Station View



Select Station View mockup showing a form for Station Address (123 Mockingbird Ln) and a Search button. Below is a section for Previously Used Stations and a section for Nearby Stations.

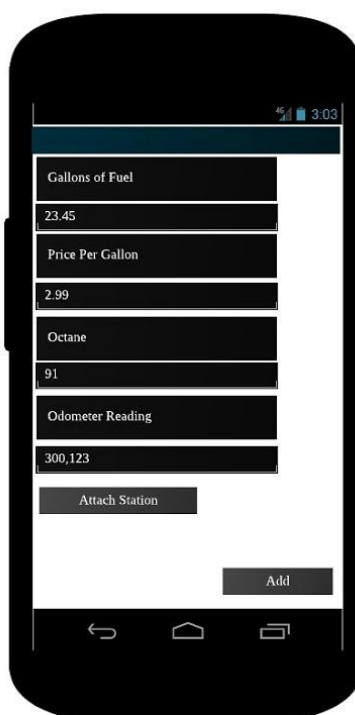
HEADER
Used Station 1
Used Station 2
Used Station 3

HEADER
Nearby Station 1
Nearby Station 2
Nearby Station 3



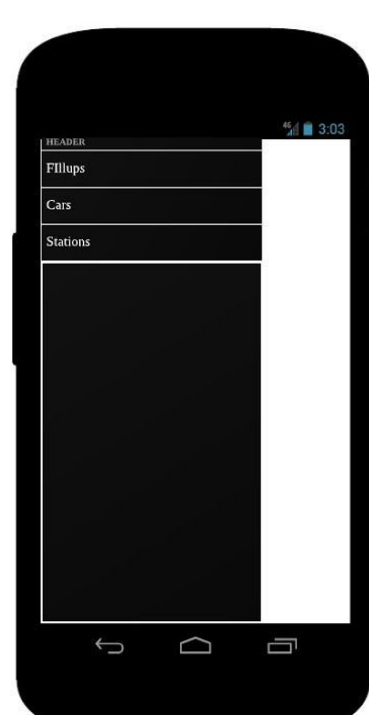
Add Vehicle View mockup showing an Add Car dialog box with fields for Name and Current Mileage, and Cancel and OK buttons.

Add Vehicle View



Add Fillup View mockup showing a form for adding a fillup. Fields include Gallons of Fuel (23.45), Price Per Gallon (2.99), Octane (91), and Odometer Reading (300,123). Buttons for Attach Station and Add are visible.

Add Fillup View



Navigation Drawer mockup showing a list of items: Fillups, Cars, and Stations. The Stations item is highlighted.

Navigation Drawer

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 UI for Each Activity and Fragment

- 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 4: Implement Presenter Layer

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

Task 5: Implement Paid App Version

- Create paid flavor of app

Task 6: Generate APK, Deployment

- Generate app flavor keys
- Create APK

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

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