

App Name: Cars Fuel Consumption

Course: Mobile App Development – Android (MAP524)

Professor: Andrew Smith

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Executive summary

My app “Car’s Fuel Consumption” will provide the users with information about car’s fuel consumption, CO2 emission, and recharge time if the vehicle uses electrical power. The application will use information gathered by the Government of Canada. The app will provide information on: 2000 – 2014 cars which use Gasoline or Diesel or Ethanol (E85) or Natural Gas; 2012 – 2015 Hybrid electric vehicles; and 2012 – 2015 battery electric vehicles.

Explanation why a mobile app is a good choice for this project

Nowadays mostly everyone has smart phone and looking at the advancement in technology it’s became compulsory to have smart phone as well as one car for family but looking at car’s expenses people can’t afford to have car. One of the major car expense is fuel so, my app will provide the users information about which cars are fuel efficient to buy from 2000 to 2015 models. Since almost everyone has smart phone and my app works offline the users can browse to choose the car he/she wants that will suit their needs and after that they can just look for that specific car to buy, they won’t have to waste their time looking at different cars and regretting for buying the car that didn’t suit their needs and bringing too much gas expense. This app will help the users filter the car they want.

Basic app features

- View thousands of records regarding car’s details.
- User can decide to view mileage in liters or mileage.
- Filter method for user: Liquid intake vehicle, hybrid electric vehicle, and electrical vehicle.
- Allow user to search for specific car or by company or by year or by vehicle class.
- Allow user to sort the list or result via vehicle year, company, or model.
- A link to google images to see vehicles photos.
- Allow user to add car to favourite list.

Expected users/market for this app

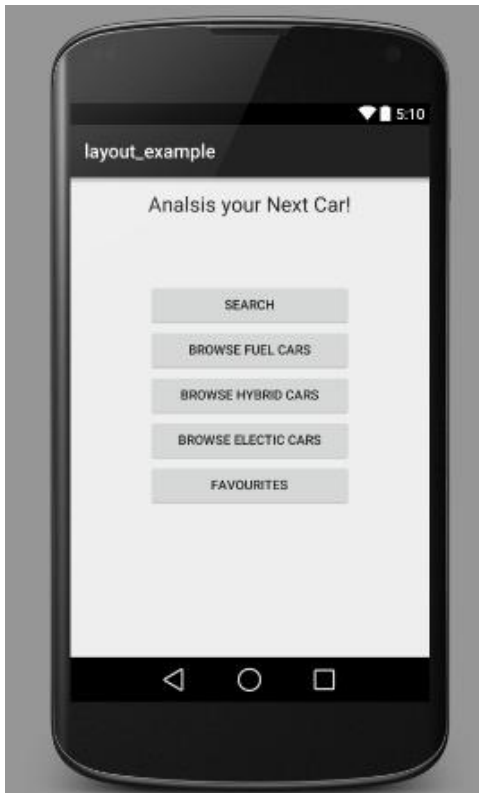
Many types of users are expected for this app. Anyone from teens to adults and seniors, all the people with driving license. The app will be only for research purpose so whenever someone is going to think about buying a car, he/she will use the app to research about which car should he/she get which will save him money on fuel.

Most common use-cases

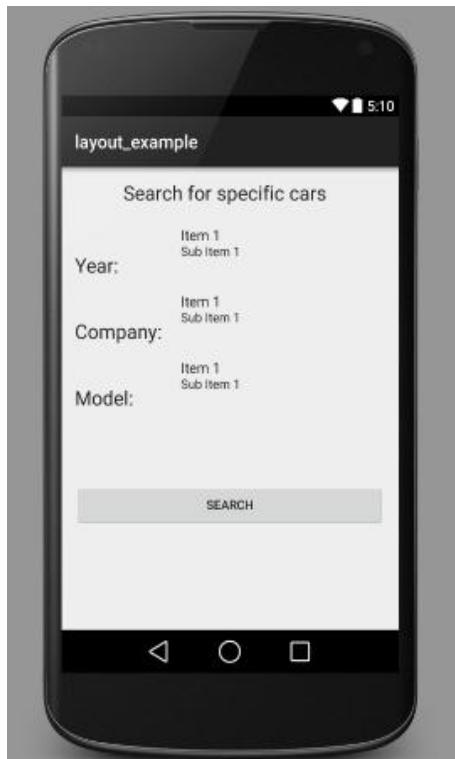
- User will begin the app that will give user five choices (menu). First to see all Liquid intake cars, second is to see all hybrid electric cars, third to see all the electric cars, forth is for search and fifth is to view cars added in favourite list. Each choice will take the user to another activity and show list of cars according to what user chose from main menu.
- In search there are going to be spinners which will allow user to search for specific cars.
- In the view pages(List of cars) user can select a specific car to see the details on Fuel consumption, CO2 emission and etc and a google images link to see images of the selected car.
- In the view page (List of cars) user can sort by year, company, and model.
- On car's detail page a button to add the car to favourite list.

Mock-ups of views of your proposed app

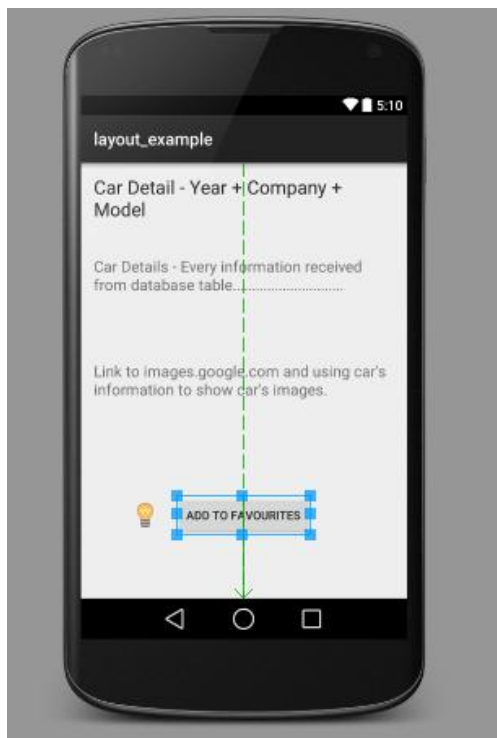
1. Main Menu



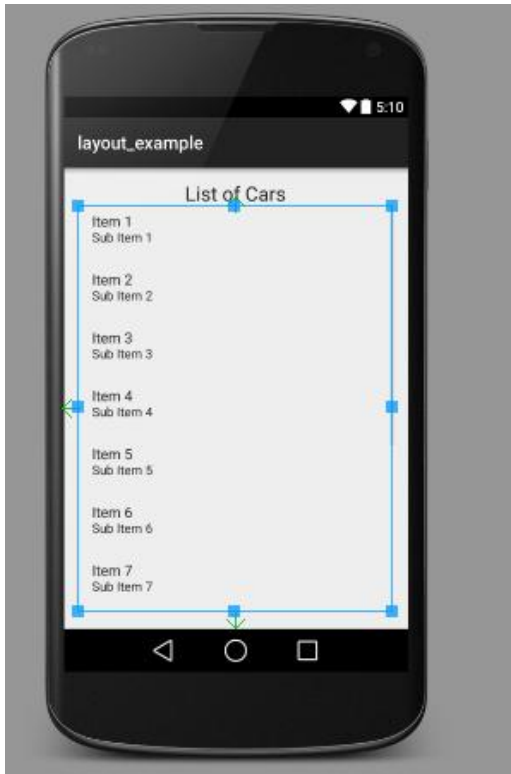
2. Search for car



3. Car Details



4. List of cars used for fuel, electric, hybrid and favourite activities



Expected users/market for this app

Task	Date	Hours
Create database and import these data/reports in to database, clean up data and add favourites table as well.	July 31, 2015	2 – 3
Create Main Activity and functioning menu and DB helper class as well.	July 31, 2015	3 – 4
Create 3 activities for Liquid in-take cars, hybrid cars, and battery electric cars.	August 1, 2015	4 – 6
Make activity to show car's full details and add fully functioning button add to favourite.	August 2, 2015	3 – 4
Create activity which will show all the cars added to favourite.	August 3, 2015	2 – 3
Finally research and make dynamic link of images.google.com which will take car's year + company + model and open it in browser for images and add that to car's detail's page.	August 3 , 2015	3 – 4
Extra time for testing and if left behind on the tasks.	August 4 – 17, 2015	–