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GasoSima

Description

Need to find a gas station near you? Do you live in Lima, Perú? Worry no more, GasoSima will show you the ones near you and will be able to give you directions on how to get there!

Intended User

Any driver in Lima, Perú or anyone that wants to find a Gas Station nearby.

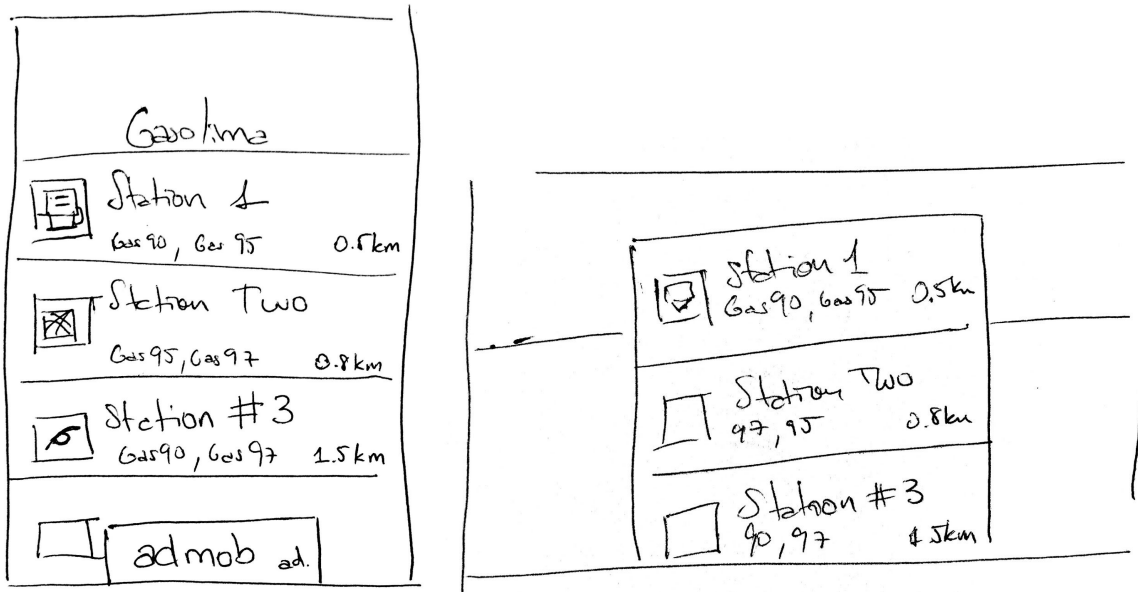
Features

- Lists nearby stations, ordered by distance
- Shows the location and a map of a given station
- Let's the user get directions to that station

User Interface Mocks

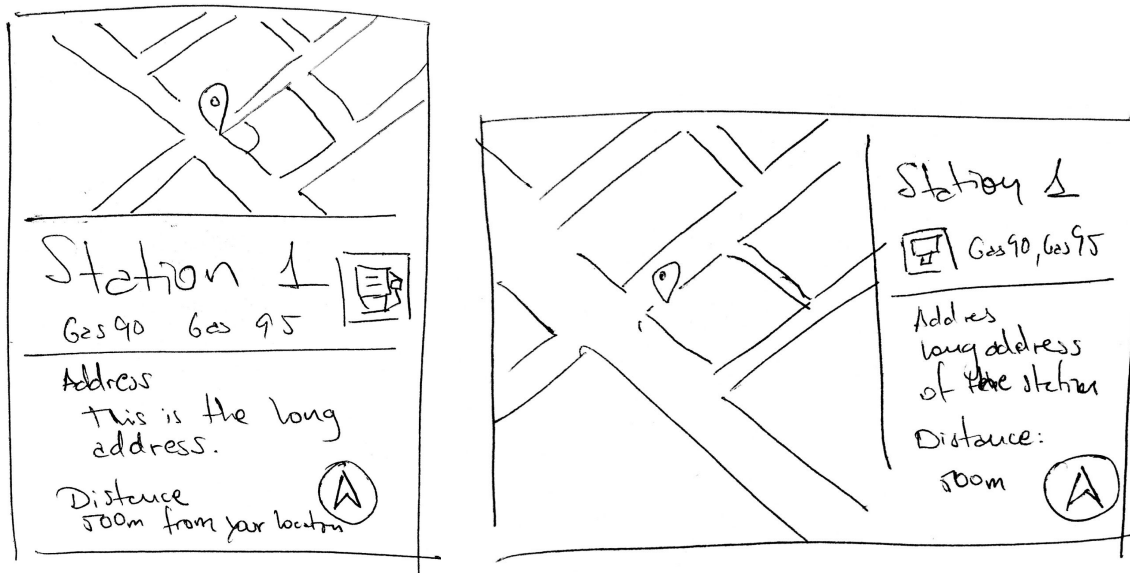
These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

Screen 1



This is the list of the Stations that are nearby. Each item will have the name of the station, an icon to indicate if it belongs to a chain (or a generic icon, if none is listed). Also, a small Ad will be placed at the bottom of this screen.

Screen 2



The detail of the gas station will show the Name as the title, a share action in the Toolbar. It will also show a FAB to get directions to that given gas station, as well as its address and the gas types available.

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

Key Considerations

How will your app handle data persistence?

Gasolima will have an internal SQLite Database and implement a Content Provider to store Gas Stations previously listed.

Describe any corner cases in the UX.

The use of the back button in the detail screen will allow the user to go back to the list without refreshing its content.

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

- Retrofit for working with the backend API
- Butterknife for dealing with UI elements

- Google Play Services:
 - Location for getting the user's location
 - Maps for displaying maps
 - Analytics for tracking which gas stations are the most viewed
 - AdMob for displaying the ad in the first screen

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 dependencies

- Add the following lines to the *dependencies* section of the app module's *build.gradle* file:

```
compile "com.google.android.gms:play-services-ads:8.4.0"
compile "com.google.android.gms:play-services-maps:8.4.0"
compile "com.google.android.gms:play-services-location:8.4.0"
compile "com.google.android.gms:play-services-analytics:8.4.0"
compile "com.jakewharton:butterknife:7.0.1"
compile "com.squareup.retrofit:retrofit:2.0.0-beta2"
compile "com.squareup.retrofit:converter-gson:2.0.0-beta2"
```

- Enter [this link](#) to get an API Key for the Google Maps API
- Use [this guide](#) to configure Analytics for Android

Task 2: Implement UI for Each Activity and Fragment

List the subtasks. For example:

- Build UI for the Gas Stations List Activity
 - Create an
 - Create an alternative layout for tablets in landscape / portrait mode
- Build UI for the Gas Station Detail
- Determine and implement the transition between screens
- Use Providers with SQLite to persist data

Task 3: Consume the Backend

- Configure retrofit to access the backend
 - Create the necessary interfaces, as needed
- Use an IntentService to manage network operations

Task 4: Use Location and Maps APIs

- Implement the usage of Google Play Services
- Obtain the user's location to be sent when consuming the backend
- Add the MapView to the Detail screen

Task 5: Include Google Analytics Tracking

- Configure a Google Analytics account for the app, [using this guide](#)
- Add screen tracking to both the Main List screen and the gas station detail

Task 6: Include an Ad in the Stations List

- Follow [this guide](#) to add a Banner Ad to the Main List screen