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**"

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Nearby Places

Description

- Nearby Places will let user locate nearby places like amusement_park, aquarium, art_gallery, bar, cafe, zoo, park, museum, pharmacy, etc.
- This app will be helpful for someone new in the city or If are going out for some trip or cool holiday this app can work as guide for you.
- Don't know where to go? Use this app to find awesome places nearby you.
- Simple and intuitive GUI of this app will increase your experience of visit at new place.

Intended User

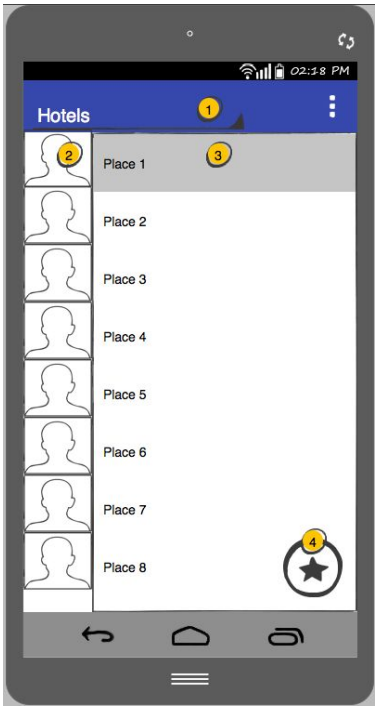
This app is useful for someone visiting a new place for holiday or small trips. Anywhere you go, there can be something which you don't know. This app help you visit such places.

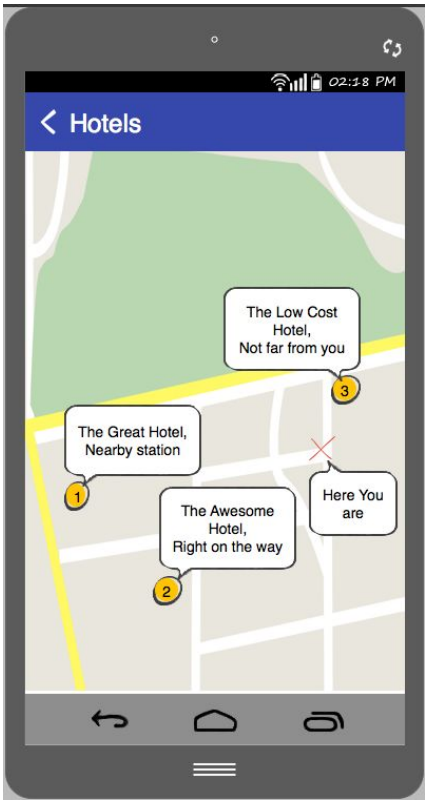
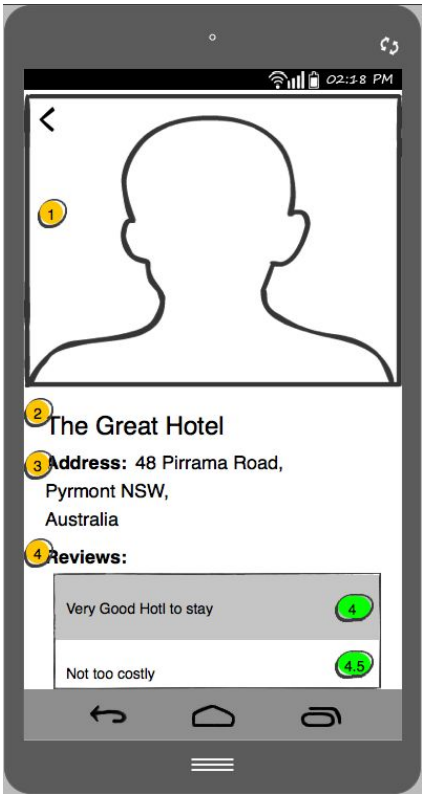
Features

List the main features of your app. For example:

- Provide category based list of nearby places
- Show your current position and nearby places on map
- Provide detail information for any place
- Let you share awesome place's details with your friends

User Interface Mocks

Screen 1: Screen to show list of pages as per selected type.		1. Select a type from spinner of toolbar and get list of Places nearby you. 2. In ListView, you can see icon on place on left side of each Place item. 3. Title of the Place will be to the right of Place icon. 4. At bottom left of screen there will be a FloatingActionButton, pressing which leads you to MapView. 5. To get updated Places, Pull to refresh functionality will be implemented here.

Screen 2: Map view to show Markers of Places of chosen type:		1. You can see Map view by pressing FloatingActionButton of Place list screen. 2. Here you will see Markers of Places of chosen category along with your current location.
Screen 3: Place detail screen to get review and more information about Place:		1. Selecting any Place in Place list screen will bring you to Place detail screen. 2. You will have following information on this screen: a. Place Photo b. Place Title c. Place Address d. Place Reviews

Key Considerations

How will your app handle data persistence?

- I will create ContentProvider to store Place's data. This will help to share Place with others.

Describe any corner cases in the UX.

- App will show list of nearby places as per selected category in list.
- Selecting any Place will show detail information about that Place.
- User will be come to listing screen by pressing device's back button or toolbar's back button.
- FloatingActionButton will show MapView, from where user can come back to listview pressing device's back button or toolbar's back button.

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

- Glide to handle the loading and caching of images of Places.
- Google Places API to find nearby Places.
- Google Map API for showing Map with current location of user and Marker of Places.

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

- Create an Android project using Android Studio version 2.1.2
- Configure required libraries for Google Map, Places, Design support library and Glide.

Task 2: Configuration of Google Play console project

- Create a project on Google Developer Console.
- Enable Google Places and Google Map APIs.

- Get required Server and Android keys and configure them in Android Project.

Task 3: Implement for PlaceList Activity & Fragment

- Create GUI of PlaceList screen.
- Create an Adapter to fill the Place list.

Task 4: Fetch nearby Places and store in ContentProvider

- Create an AsyncTask for fetching nearby Places using Google Places APIs.
- Create ContentProvide to store and manage Place Data.

Task 5: Create MapView Screen

- Create MapView using Google Map APIs.
- Show current location of user on Map.
- Draw Markers of Places on MAP.

Task 6: Create Place Detail Activity & Fragment

- Create layout for Place detail screen.
- Populate All field of Place from data Provided by ContentProvider.

Task 7: Add ListView widget for nearby Places

- Create a ListView widget to show nearby Places on Home screen of device.

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