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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.

Describe how you will implement Google Play Services.

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: Rapter1990

# Findl

## Description

Many people have a lot of problems to find any location in their daily life because they cannot know where they go to meet their special needs. At the same time, they cannot determine whether the location which they go is opened or not as they cannot have any detail idea about location. Moreover, they cannot know whether the distance between their position and the destination which they go is close or not. FindL provides them to find their location which they want to go in terms of location type categories, to give detail location to them in term of its detail information and users' review and to show distance to the destination with respect to how much kilometers are there between their position and the destination.

### Intended User

Travelers, Students, Employees or any individual

### **Features**

List the main features of your app. For example:

- Find nearby locations with respect to their types. These types are depended on accounting, airport, bus station, hotel, car repair, mosque, restaurants and others
- Provide detail information about the location which user select. They are based on phone number for calling location, approximate distance, website, status which is showing whether the location is opened or closed, rating for showing the popularity of location, address and users' reviews to give their opinion about locations.
- Share location which user select to friends, family and other people.
- Provide contract to developer to give feedback about the app.
- Provide info to show who person develops the app.
- Provide Exit to exit the app.
- Add location which users like to their favorite location app.
- Provide search option for location types for getting fast result.

### **User Interface Mocks**

#### Screen 1



Main Screen provides users to select location type nearby them and navigate transition between icons in the bottom navigation bar. Morover, there is an search icon on the toolbar to search any location type in the list.

## Screen 2



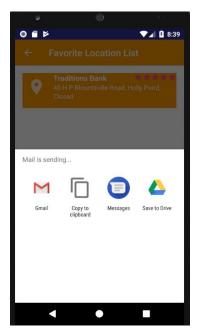
Search Option provides users to show location result list in the screen according to user's preference.

#### Screen 3



Favorite Location list provides users to list their favorite location stored in the database.

### Screen 4



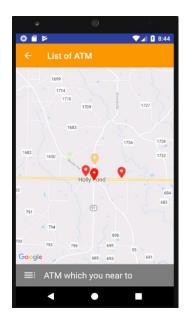
Contract lcon in the bottom navigation bar provides users to  $\label{eq:contract} \text{make a communcaiton with developer to give a feedback about}$  the app .

# Screen 5



Info Icon in the bottom navigation bar provides users to get information about the app.

### Screen 6





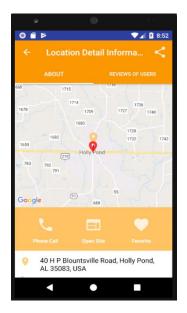
After user select any Icoation type such as "ATM", a new activity is opened to show its location nearby user and user's current position. Moreover, a bottom divider side show a about location nearing to user. If there is no location nearby user, it shows that location is not found.

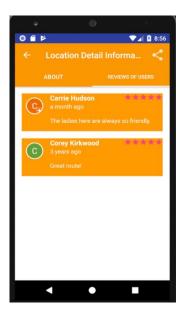
### Screen 7



After clicking the bottom side, it shows location list nearby user with detail information and rating.

Screen 8





After clicking any location in the list, there are two part to be shown. At the first side, it shows detail indormation about it. These are depend on location's address, location's phone number and location status in terms of determining whether it is opened, closed or no status. Moreover, calling phone number, open website and adding it to favorites are added to this part. At the same time, user share this location to anyone. At an another side, it shows users' reviews of location. This activity is also called from favorite and search side.

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 be used for SQLite database to store location which users select in their favorite part.

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

• Use Picasso library to show location icon.

- Use Volley library to get location information from query based on JSON structure via GET method.
- Use Butterknife library to find and automatically cast the corresponding view in your layout in termd of data binding.
- Use BottomNavigationViewEx library to add bottom navigation bar with providing transition between activity easily.
- Use CircleImageView library to display circularly user's profile photo in Review Part.
- Use MaterialRatingBar library to display the rating of location.
- Use Android Material Design library to benefit from RecyleView.

### Describe how you will implement Google Play Services or other external services.

- Using Google Map Sdk for Android
  - Locate user's current position and nearby location around the user.
  - Calculate the distance between user's current position and the location which user selects.

## Next Steps: Required Tasks

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

## Task 1: Project Setup

- Learing Google Map Service to add it in the app.
- Search libraries on Internet for developing and using how to implement them in the app.
- Register Google Play Service to get API Key for guery.
- Implement libraries used for the app in build.gradle file.
- Design the flow of the app.

### Task 2: Implement UI for Each Activity and Fragment

- Build UI for Splash Activity to open its layout before opening Main Activity.
- Build UI for Main Activity where all location types shown in Google Map Sdk for Android are listed thanks to LocationMainListItemAdapter
- Build UI for Main Activity where BottomNavigationViewEx is implemented.

#### Task 3: Add More Activity for Bottom Navigation Bar

- Add Info Activity to Bottom Navigation Bar to show who is developed the app.
- Add Favorite Activity to Bottom Navigation Bar to list location added from users in favorite part.
- Add Exit to Bottom Navigation Bar to exit the app.
- Add Contract to Bottom Navigation Bar to provide a connection between users and develop as giving a feedback about the app.

#### Task 4: Add LocationListOnMap and LocationListActivity with its Adapter

- Add LocationListOnMap Activity to add map in the screen and tab bar in the bottom of screen to open LocationListActivity.
- Add LocationList Activity to list location in certain style defined in LocationItemListAdapter.

#### Task 5: Implement Data Model and Content Provider

- Create UserLocationRating class for showing users' reviews and Location class for giving detail information about location
- Create LocationDetailHelper class to determine the structure of database.
- Create LocationDetailContract class to the column of database with content authority url
  of the app.
- Create LocationDetailContentProvider class to deterimne CRUD operation of SQLite database.
- Create CursorRecyclerViewAdapter class to load information from database for favorite location list.

#### Task 6: Add Methods in UtilsMethod

 Create UtilsMethod class to add network connection method, calculation of two location points and getting method for permission defined in Android Manifest file.

#### Task 7: Add Location Detail Activity with its Fragments

 Create Location Detail Activity to show the detail information of location and users' reviews about location by showing them in fragments named for LocationInformationAbout and LocationUserReview.

#### Task 8: Add Functionality to Favorite Icon ImageView

Add a functionality to Favorite Icon ImageView. If user presses the icon at first and the
icon is based on not filling heart, the selected location will be stored in the database with
respect to its location id and icon converts to filling heart. If user presses this filling heart
icon, the selected location will be deleted in the database with respect to its location id
and icon converts to not filling heart.

#### Task 9: Add Widget

- Add Favorite Location List Widget on the home Screen of the phone
- See the details of the selected location in the list by clicking it in the list of widget.

#### Task 10: Fix Issues and Errors

- Analyze the bugs thrown from the app.
- Fix some errors in the app.

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

#### **Submission Instructions**

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