

Nearby places Project Report

1. INTRODUCTION

1.1 Overview

This is a nearby places app made in Kotlin using Google Places API and Maps SDK for Android. This shows the places like hotels, schools, restaurants, and hospitals that are near a person using the app. On clicking on a place it shows details like ratings, open hours, directions on map. This project was developed under the guidance of Sandeep Sir from smartinternz.

1.2 Purpose

This project can be used to find nearby places and get details of that place without personally visiting the place. This can save time and money of the user with a basic rule - that the user is connected to internet when using app and has given location permission to the app.

2. LITERATURE SURVEY

2.1 Existing problem

The existing way to solve this problem is to :

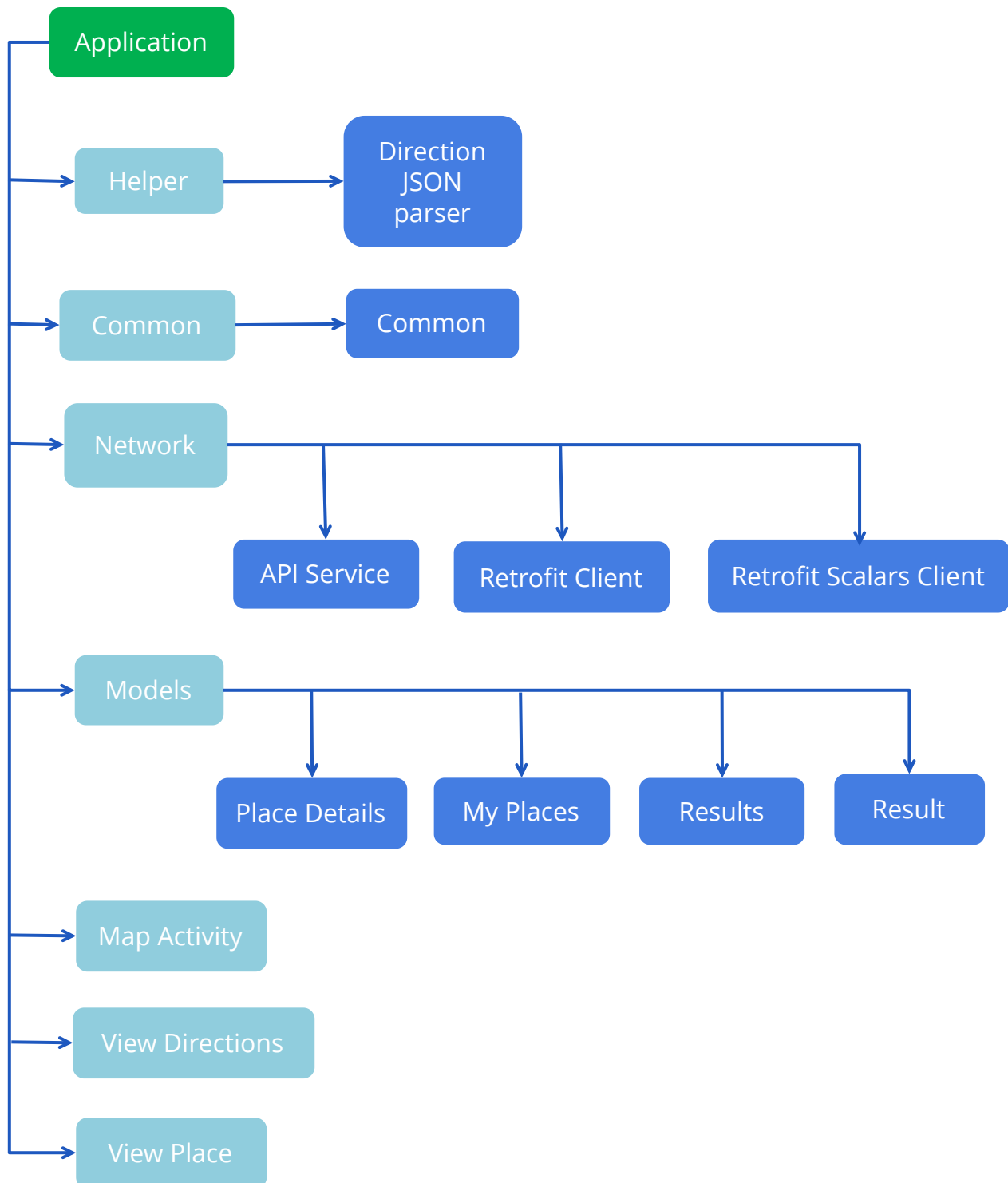
- add dependencies google-play-services, retrofit, retrofit-converter, picasso
- create a home page in which it shows a popup to grant location permission to application
- display the map on screen with options to view nearby places
- create a page for details of place and one for displaying directions
- create a retrofit service and request for nearby places in home page
- create a models for the suitable results
- create multiple markers for the each location and display it on the map
- add intent to display details of a particular place
- add intent for directions from current location of user to the place clicked

2.2 Proposed solution

I have use the existing way but if someone does not wants to use intents the he/she may create pages for details and directions; then display data using view binding and data binding. Also add a functionality to both the pages for visiting the previous page.

3. THEORITICAL ANALYSIS

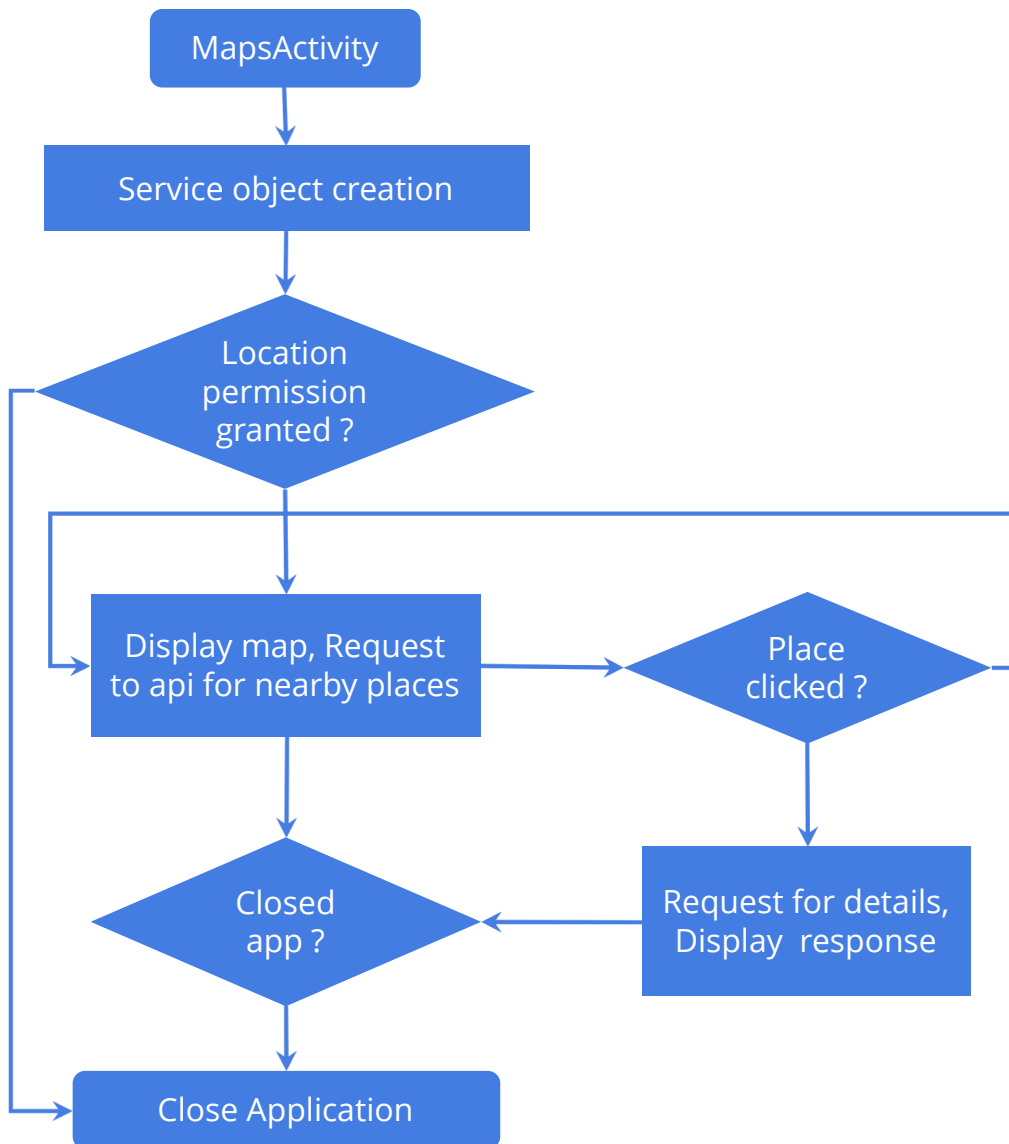
3.1 Block diagram



3.2 Hardware / Software designing

- Laptop or Desktop
- Android Studio installed in it
- Download virtual emulator or keep android device to run and test app

4. FLOWCHART



5. EXPERIMENTAL INVESTIGATIONS

The dependencies caused a lot of issue for me while working on solution. So, one needs to make sure that he/she is using the correct version for the methods that they may use. As it becomes difficult to debug due to incorrect errors/exceptions shown for the incorrect versions of dependencies.

6. RESULT

Final findings (Output) of the project along with screenshots.





Rite on coal
OPERATIONAL

*apt shop, Gwens Apartment, 2, Kalina Kurla Rd,
Kolivery Village, Kunchi Kurve Nagar, Kalina,
Santacruz East, Mumbai, Maharashtra 400029, India*



SHOW ON MAP

VIEW DIRECTIONS



Regency
CLOSED_TEMPORARILY

*Shop Number A-99, Opposite Kapadia Nagar,
Chhatrapati Shivaji Terminus Road, Kurla (W),
Kapadia Nagar, Kurla, Mumbai, Maharashtra 400070,
India*



SHOW ON MAP

VIEW DIRECTIONS



7. ADVANTAGES & DISADVANTAGES

Advantages :

- This can be used to find places easily
- Details of a place can be found from anywhere

Disadvantages :

- Requires internet connection
- Doesn't has the functionality to see nearby places like malls, theatres, etc.
- If GPS not working properly then it may give incorrect response

8. APPLICATIONS

The areas where this solution can be applied :

- for personal use
- food delivery application
- movie ticket booking apps
- medicine ordering apps
- theme parks apps

9. CONCLUSION

This is a basic application to get nearby places and place details.

The complexity of the application may be increase depending on the use on application in a particular sector.

10. FUTURE SCOPE

Enhancements that can be made in the future are :

- one can add a feature to search location
- a feature to select the places they want to see like hotels, water parks, resorts, theatres, stations, bus stops, etc.
- a feature to show user the respected application or website related to its search.
Like if a user selects a place - restaurant then he/she maybe shown apps like Swiggy, Zomato to order food or their websites.

11. BIBILOGRAPHY

References of previous works or websites visited/books referred for analysis about the project, solution previous findings -

- <https://developers.google.com/maps/documentation/android-sdk/overview>
- <https://kotlinlang.org/docs/home.html>
- <https://stackoverflow.com>
- <https://www.google.com>
- www.youtube.com

APPENDIX

A. Source Code :

[https://github.com/smartinternz02/SPSGP-87930-Virtual-Internship---
Android-Application-Development-Using-
Kotlin/blob/main/NearbyPlaces.zip](https://github.com/smartinternz02/SPSGP-87930-Virtual-Internship---Android-Application-Development-Using-Kotlin/blob/main/NearbyPlaces.zip)