Android Maps

Introduction

In this Application, we create an Android Maps application in which we can view the location of various places and store the history for future purposes.

Project Description

The Android Maps are created as an Android App, it is developed using Kotlin as a final project for the Android Development using Kotlin internship.

HomeScreen

It has a basic HomeScreen with a button widget to search for locations, the location can be any item that can be searched using Google Maps When the search button has been pressed the query from the search bar appears on Google Maps. Now Google Maps take this query, applies this to its application, and fetches back the results. When this is done the search in the search bar is taken into the History of the application, now whenever the same item needs to be searched, it just needs to be clicked on and the query will be passed. Thus negating the need to type queries, again and again.

Technologies-Used

### 1. MVVM (Model View ViewModel)

MVVM architecture in android is used to structure the project’s code and understand code easily. MVVM is an architectural design pattern in android. MVVM treats Activity classes and XML files as View. This design pattern separates UI from its logic. Here is an image to quickly understand MVVM.

### 2) ROOM Database

Room persistence library is a database management library and it is used to store the data of apps like grocery item name, grocery item quantity, and grocery item price. Room is a cover layer on SQLite which helps to perform the operation on the database easily.

### 3) RecycleView

RecyclerView is a container and it is used to display the collection of data in a large amount of data set that can be scrolled very effectively by maintaining a limited number of views.

### 4) Coroutines

Coroutines are lightweight threads, we use a coroutine to perform an operation on other threads, by this our main thread doesn’t block and our app doesn’t crash.

### 5) Google Maps API

We use the Google Maps API to get information regarding the location of various places posted in the query.

### ACCOUNT ID’s

#### GitHub id:<https://github.com/AaronSajiAlexander>

SmartInternz id: SB20220222612