

GROCERY ANDROID APP

Objective:

As we can't remember everything, users frequently go to store and forget to buy the things they want to buy. However, with the help of this app, you can make a list of the groceries you intend to buy so that you don't forget anything. More over we can update it very easily and quickly.

The main aim to build a mobile application for groceries stores business is to lessen the efforts of the consumers thereby providing them with the finest experience while shopping groceries.

With the help of this app the user can easily remember all items to buy and even can know the total amount they need to bring with them while going to the store.

Problem Statement:

Build an android application of Grocery Android App using MVVM and Room Database in Kotlin. With this application, the user will be able to note down the grocery items that he/she is going to purchase.

Problem Description:

In this project, we are using MVVM (Model View ViewModel) for architectural patterns, Room for database, Coroutines and RecyclerView to display the list of items.

Technologies Used:

- **MVVM (Model View ViewModel)**

MVVM architecture in android is used to give structure to the project's code and understand code easily. MVVM is an architectural design pattern in android. MVVM treat Activity classes and XML files as View. This design pattern completely separate UI from its logic.

- **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.

- **RecyclerView**

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.

- **Coroutines**

Coroutines are a lightweight thread, 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.

URLs:

- **GitHub URL**

smartinternz02/SPSGP-83161-Virtual-Internship---Android-Application-Development-Using-Kotlin

Account IDs:

- **GitHub ID**

<https://github.com/srijita2023>

- **Smart Internz ID**

<https://smartinternz.com/student-profile/feed/U0lyMDIyMDIzNDYzNA==>

Acknowledgement:

I would like to convey my heartfelt gratitude to Mr Sandeep Doodigani for his tremendous direction and assistance in the completion of my project.

I would also like to thank him for providing me with this wonderful opportunity to work on a project with the topic Grocery App. This project would not have been accomplished without their help and insights.

Srijita Shil