An Android Development Project Report

Grocery List Builder Application

Application Using Android Studion With Kotlin Language_

SUBMITTED BY :

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Kotlin Supported by Goggle.Developer

Virtual Internship

Android Application Development Using Kotlin

Project_ Grocery List Builder Android Application.

Project – Grocery List Builder Android App

1.INTRODUCTION :

1.1 Overview_

Grocery List Builder: In this project, we are using MVVM (Model View Viewmodel) for architectural patters, Room for database, Coroutines and RecyclerView to display the list of items.

1.2 Purpose_

Grocery List Builder is a Kotlin based Application. As we can't remember everything, users frequently forgot to buy the thing they want to buy. However, with the assistance of this app, you can make a list of the groceries you intend To buy so that you don't forgot every thing.

2 TECHNOLOGIES USED

2.1 MVVM (Model View ViewModel)_

MVVM stand for Model View ViewModel, MVVM is udes 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. The design pattern Separates UI from its logic Here is an image to quickly understand MVVM.

2.2 Room Data Base_

Room persistence library is a database management library and it is udes 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.

2.3 RecylerView_

Recyclerview ia a cointainer and it is used to display the collection of data ina large amount of data set that can be scrolled very effectively by maintaining a limit number of views.

2.4 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 Application doesn't Crash.

3. THEORITICAL ANALYSIS :

3.1 Block diagram Technologies_

MVVM(Model View ViewModel) For

Giving Structure of Application.

RecyclerView a Container For Displaying the

Collection of Data.

Room Data Base is a persistence Database

management Library use to Store Data.

4. ADVANTAGES & DISADVANTAGES :

4.1 Advantages_

.Through This Application You can Store Purchased Item Data(Name or Price of Items) If we Forgot to buy some Items Which you need.

4.2 Disadvantages_

.If you delete this application and When you Re-install this application Your Data will be deleted.

.Don't Have Login Option in This Application.
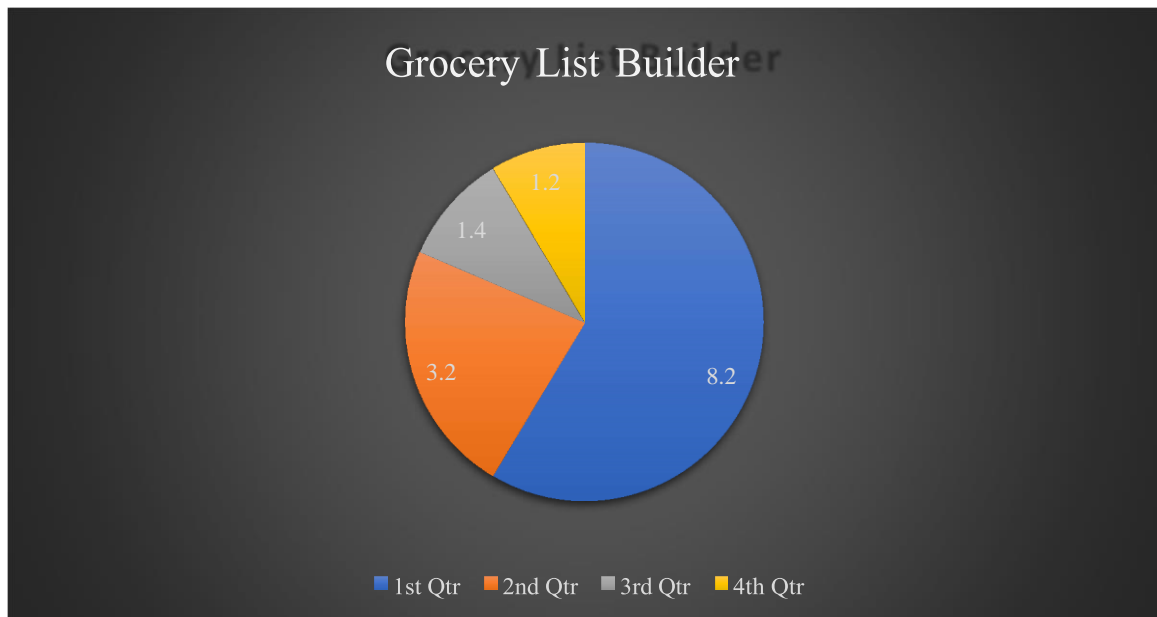
5. LITRATURE SURVEY :

5.1 Existing Problem_

The main Basic problem of the Marketing HouseWifes or a Person who buy items from Shop, He/She Forgot to buy item which they want to buy

5.2 Proposed Solution_

For This Problem Solution is Grocery List Builder Application by This application you can note down items details(Name/Price) in Application List Box, by This app you don't forgot to purchase items from Shop.

6. FLOWCHART :

1st Qtr.

Add Item to List.

. Enter item Name

. Enter item Quantity in Kg

. Enter Item Price/Kg 2nd

Qtr.

Grocery Reminder.

3rd Qtr.

Application Data Storage
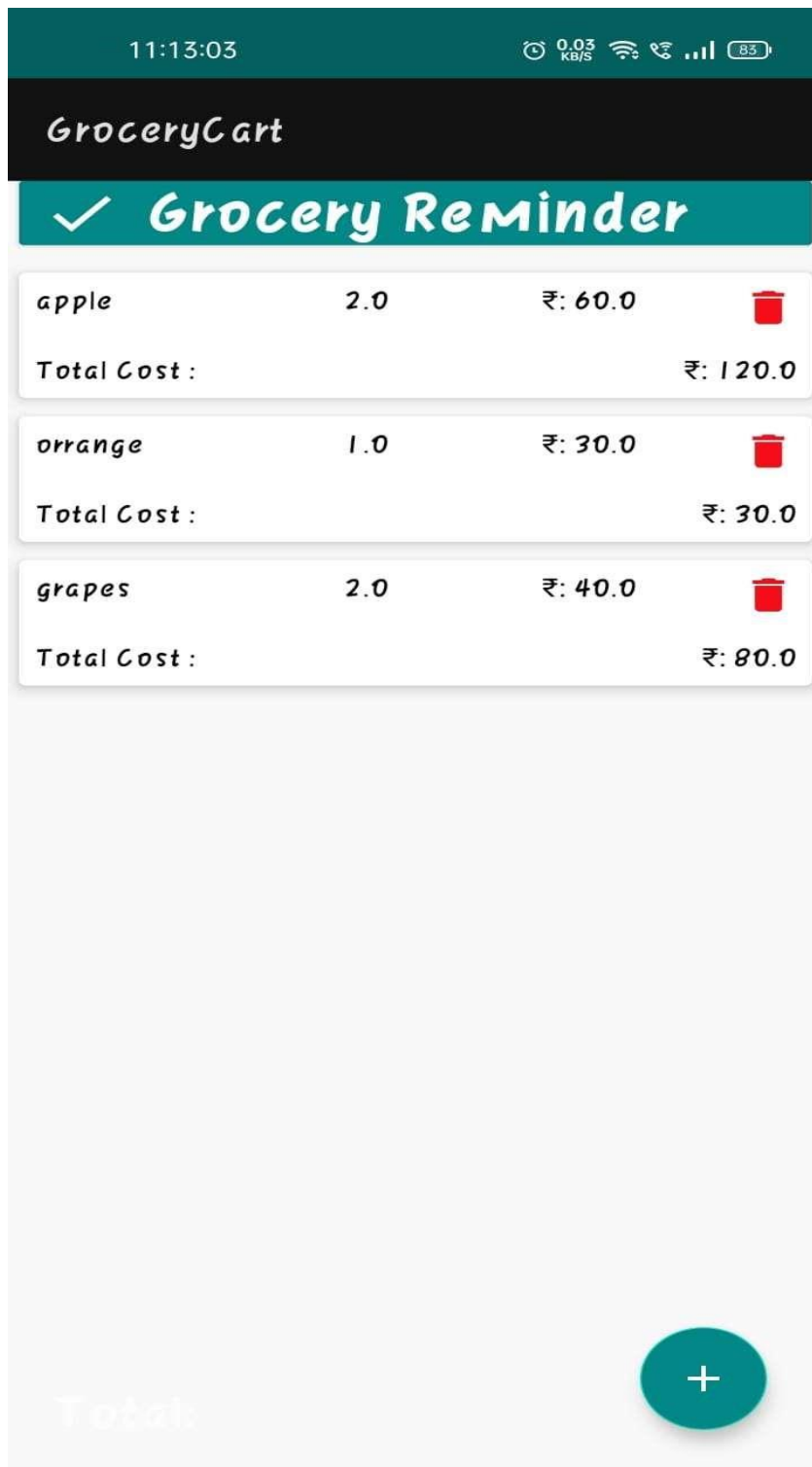
4th Qtr.

Delete Items details from List Box

ADD ITEM TO LIST :

Add item to list by Entering Name of Item / Entering Item Quantity in kg / Entering item Price/Kg all this details you can add in the Blanks Boxes and Your Data will be Stored in the List Box You can See you grocery List Whenever You Want.

GROCERY REMINDER :

Whatever you listed in your Reminder box you can see and Check what product you purchased and Whats Left for Purchasing.

You can Simple Click on Plus Icon(+) For Adding items Details in the List, This is Items Reminder box for Remind you to purchase products without forgetting items.

7. CONCLUSION & FUTURE SCOPE :

Conclusion_

You can Purchase item without forgetting any specific items in your mind with this Grocery List
Builder Application You can simple Add your Product or Item Details in the Reminder List by Clicking Plus Icon(+) you have also a Add item list where you can simple Add your Products Details Like:

- Name of Item.
- Quantity of Item/kg. □ Price of Items.

Future Scope_

You can see Updates for Future Option for Enhance the performance of this Application

This Updates Seems Like:

- Shedule Item Details.
- Scanner option for Product QR .
- Loging Authentication.

URL's

- GitHub URL

https://github.com/smartinternz02/SPSGP-104185-Virtual-Internship---Android-Application-Development-Using-Kotlin.git

- My Drive link

    Video with audio explanation -

https://drive.google.com/file/d/1sqlVXc0f31QfAbx9hAbuNdy1gdvtSdpC/view?usp=drivesdk

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