

Project Report:

Grocery App - This is a simple list app used to store the list of groceries. This app has a simple user interface which allows the user to easily add or delete the list items.

In this app we use the MVVM (Model View ViewModel) for architectural patterns, Room for database and coroutines and RecyclerView to display the list of items. Before the working of the project let us understand these terms.

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. Here is an image to quickly understand MVVM.

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

RecyclerView:

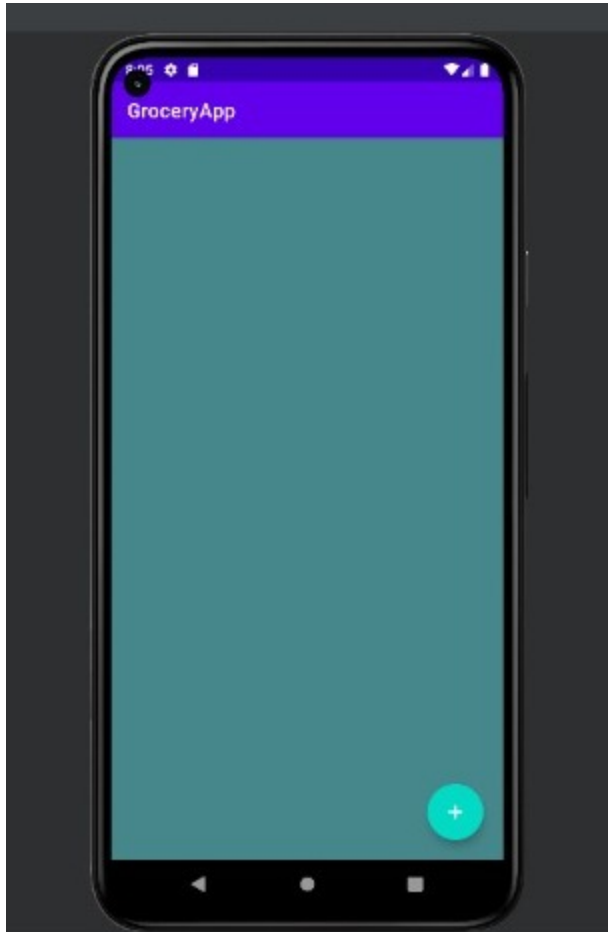
RecyclerView is a container and it is used to display the collection of data in a large amount of data set that can be scrolled very effectively by maintaining a limited number of views.

Coroutines:

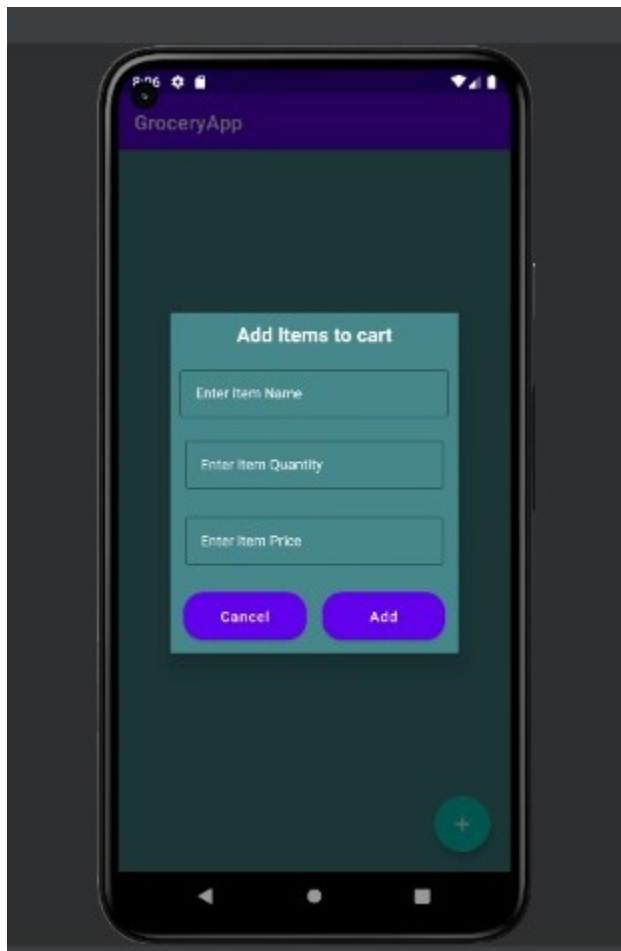
Coroutines are a lightweight thread, we use a coroutine to perform an operation on other threads, by this our main thread doesn't block and our

app doesn't crash.

Here are some screen-shots of the app working:



1. Home Screen



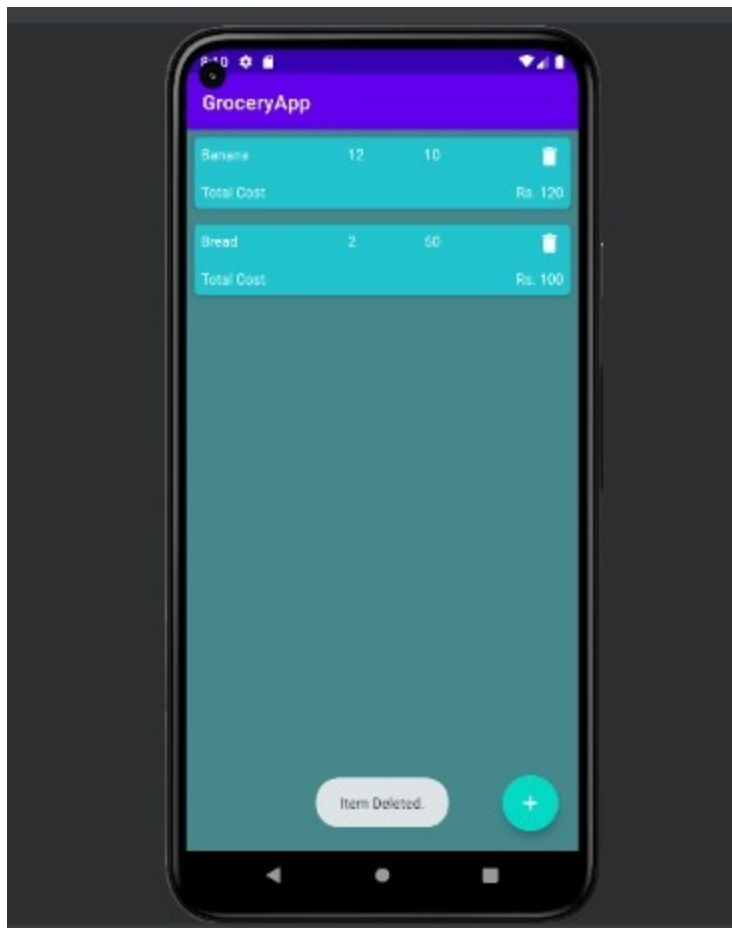
2. Dialog to add item



3. List



4. List of several items.



5. When an item is deleted