

A Technical Project Report

On

GROCERY APP -USING KOTLIN

IN ANDROID STUDIO

SUBMITTED BY

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UNDER



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CHAPTER-I

1.1 Abstract:

ANDROID APP KOTLIN has been gaining popularity since it made its debut. Android Studio is an open and free IDE which is used to develop the android application for mobile's, TV's, Watches and other Android OS. It provides leverage the power of SQL Database and build a app that shows items added by user.

1.2 Objective:

The goal of the my project is making an app which store the user items in cart and user can modify and delete the added item in list. To develop a reliable system, I have some specific goals such as:

- Develop a system such that user can add item details like product name, product Quantity and Product Price
- Develop a database room which is used to store the user data which already added by the user in cart and user can also remove the previous added item in cart
- Develop the good UI design which user friendly to user
- Develop the good UI which is supported for all android devices

CHAPTER 2

Background & Diagrams

2.1 Background:

Grocery app is a project that will help the user or admin to store the list of items in sequence order. if user want to add extra more items also possible and if user want to remove the previous items also available.

- UI DESIGN IN ANDROID PLATFORM
- ANDROID APPLICATION DEVELOPMENT
- DATABASE CONNECTION TO STORE USER DATA

2.2 Studies:

- ✓ Design user friendly environment
- ✓ Connecting database
- ✓ Add material icon for good UI
- ✓ Create the vectors and Material Colours
- ✓ Navigation of user action from one page to another page

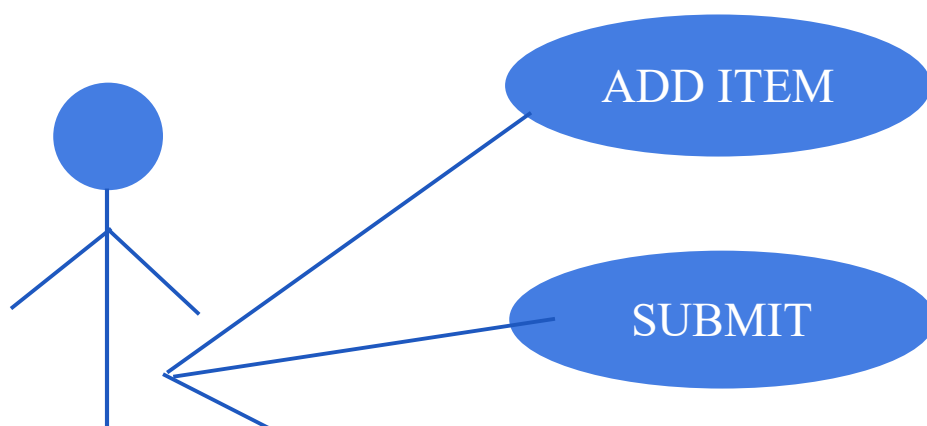
2.3 Challenges:

working with database friendly UI design for UXGradle and SDK settings

Page No 3

2.4 Context Diagram:

Use Case Diagram of Admin



CHAPTER 3

REQUIREMENT OF COLLECTION AND ANALYSIS:

3.1 SOFTWARE:

The Software Package is Developed Using Kotlin and Android Studio. basic Sql Commands Used to Store the Database

Operating System: Windows 11

Software: Kotlin and Java

Emulator: Pixel 4 (Api 30)

3.2 HARDWARE:

RAM : 8GB RAM

ROM : 20GB

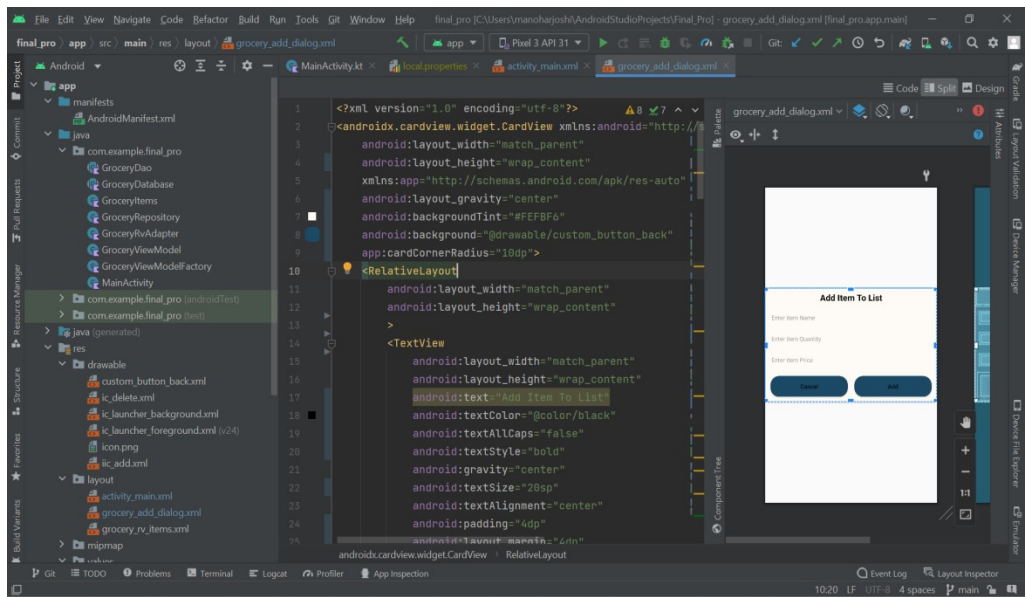
The screenshot shows the Android Studio IDE with the following components:

- Top Bar:** File, Edit, View, Navigate, Build, Run, Tools, Help. The top status bar shows the file path: final_pro > app > src > main > res > layout > activity_main.xml.
- Left Panel:** Project view showing the file structure of the final_pro app. The MainActivity.kt file is selected.
- Main Editor:** The MainActivity.kt file is open, showing the following code:


```

11  android:layout_height="wrap_content"
12  android:layout_marginLeft="5dp"
13  android:layout_marginRight="5dp"
14  android:layout_marginBottom="10dp"
15  android:background="@color/light_blue_shade"
16  android:backgroundTint="@color/dark_blue_shade"
17  >
18
19  <TextView
20      android:layout_width="match_parent"
21      android:layout_height="wrap_content"
22      android:gravity="center"
23      android:text="@string/grocery_cart"
24      android:textAlignment="center"
25      android:textColor="@color/white"
26      android:textSize="25sp"
27      android:textStyle="bold" />
28  </androidx.cardview.widget.CardView>
29
30  <androidx.recyclerview.widget.RecyclerView
31      android:id="@+id/rv_items"
32      android:layout_width="match_parent"
33      android:layout_height="match_parent"
34      android:layout_below="@id/header"
      
```
- Right Panel:** The design view shows a preview of the activity_main.xml layout. It features a title bar, a list of items, and a total cost display. The list items are displayed in a table format with columns for Name, Quantity, Rate, and Amount. The total cost is shown at the bottom of the list.

4.2 POP UP PAGE



CHAPTER 5

5.1 Conclusion:

This application will help to store the list of items date include name price and quantity. most of shopping admins want to store the his data in list, the application is very help full for them. not only in shops and admins also helpful for user what they buy and what they want to buy.

5.2 Future Scope:

This application help to store the list of items by Admin .In Future we can also add user panel which is add by user required item that are submitted to admin

The Feature are:

- ✓ Add User Panel
- ✓ Add Admin Panel
- ✓ Provide Login authentication
- ✓ Add image to user product and rating