

NAME: SAURAV KUMAR GUPTA

ID: SPSGP-74298

Source Code : Grocery App

1. build.gradle (project)

```
plugins {  
    id 'com.android.application'  
    id  
    'org.jetbrains.kotlin.android'  
    id 'kotlin-kapt'  
}  
  
android {  
    compileSdk 33  
  
    defaultConfig {  
        applicationId  
        "com.example.grocerryapp"  
        minSdk 21  
        targetSdk 33  
        versionCode 1  
        versionName "1.0"  
  
        testInstrumentationRunner "androidx.test.runner.AndroidJUnitRunner"  
    }  
}
```

```

buildTypes {
    release {
        minifyEnabled false
        proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'),
'proguard-rules.pro'
    }
}

compileOptions {
    sourceCompatibility
    JavaVersion.VERSION_1_8
    targetCompatibility
    JavaVersion.VERSION_1_8
}

kotlinOptions {
    jvmTarget =
    '1.8'
}

packagingOptions{
    exclude 'META-INF/atomicfu.kotlin_module'
}
}

```

```
dependencies {
```

```

    implementation "androidx.room:room-ktx:2.4.3"
    implementation "androidx.lifecycle:lifecycle-viewmodel-
ktx:2.5.1" implementation "androidx.lifecycle:lifecycle-
livedata-ktx:2.5.1" implementation
    "androidx.lifecycle:lifecycle-common-java8:2.5.1"
    implementation "org.jetbrains.kotlin:kotlin-stdlib-jdk7:1.7.10"
    implementation "androidx.activity:activity-ktx:1.5.1"

```

```

implementation 'androidx.core:core-ktx:1.9.0'
implementation 'androidx.appcompat:appcompat:1.5.1'
implementation
'com.google.android.material:material:1.6.1'implementation
'androidx.constraintlayout:constraintlayout:2.1.4'

kapt "androidx.room:room-compiler:2.4.3"
api "org.jetbrains.kotlin:kotlin-coroutines-
core:1.6.1" api "org.jetbrains.kotlin:kotlin-
coroutines-android:1.6.1"

testImplementation 'junit:junit:4.13.2'
androidTestImplementation "androidx.room:room-
testing:2.4.3"
androidTestImplementation "androidx.arch.core:core-testing:2.1.0"
androidTestImplementation 'androidx.test.ext:junit:1.1.3'
androidTestImplementation 'androidx.test.espresso:espresso-
core:3.4.0'
}

```

2. app > src > main > AndroidManifest.xml

```

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    package="com.example.groceryapplication">

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@drawable/vegetables"

```

```

        android:label="@string/app_name"
        android:roundIcon="@drawable/vegetables"
        android:supportsRtl="true"
        android:theme="@style/Theme.GroceryApplication"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>

```

3. **app > src > main > java > com > example > groceryapplication > GroceryDao.kt**

```
package com.example.groceryapplicati
```

```
on import androidx.lifecycle.LiveData
```

```
import androidx.room.*
```

```
@Dao
```

```
interface GroceryDao {
```

```
    @Insert(onConflict =
```

```

        OnConflictStrategy.REPLACE)suspend fun
        insert(item: GroceryItems)

        @Delete
        suspend fun delete(item: GroceryItems)

        @Query("SELECT * FROM grocery_items")
        fun getAllGroceryItems(): LiveData<List<GroceryItems>>
    }

```

4. **app > src > main > java > com > example >**
 groceryapplication >

GroceryDatabase.kt

```
package com.example.groceryapplicati
```

```
on import android.content.Context
```

```
import androidx.room.Databa
se import
androidx.room.Room
import androidx.room.RoomDatabase
```

```

@Database(entities = [GroceryItems::class],
version= 1)abstract class GroceryDatabase :
RoomDatabase() {
    abstract fun getGroceryDao(): GroceryDao

```

```

companion
    object {
        @Volatile

```

```

private var instance: GroceryDatabase? =
    nullprivateval LOCK = Any()

operator fun invoke(context: Context) = instance?:
    synchronized(LOCK) {instance ?: createDatabase(context).also {
        instance = it
    }
}

private fun createDatabase(context:
    Context) =Room.databaseBuilder(
        context.applicationContext,
        GroceryDatabase::class.java,
        "Grocery.db"
    ).build()
}
}

```

5. app > src > main > java >com > example > groceryapplication > GroceryItems.kt

```
packagecom.example.groceryapplicati
```

```
on import androidx.room.ColumnInfo
```

```
import androidx.room.Entity
import
androidx.room.PrimaryKey
```

```
@Entity(tableName =
"grocery_items")data class
GroceryItems(
    @ColumnInfo(name =
```

```

        "itemName")var itemName:
String,

@ColumnInfo(name =
"itemQuantity")var itemQuantity:
Int,

@ColumnInfo(name =
"itemPrice")var itemPrice: Int,

){
    @PrimaryKey(autoGenerate =
true)var id: Int? = null
}

```

6. **app > src > main > java >com > example >**
 groceryapplication >

GroceryRepository.kt

```

package com.example.groceryapplication

class GroceryRepository(private val db: GroceryDatabase) {
    suspend fun insert(items: GroceryItems) =
        db.getGroceryDao().insert(items)suspend fun delete(items:
        GroceryItems) = db.getGroceryDao().delete(items)

    fun getAllItems() = db.getGroceryDao().getAllGroceryItems()
}

```

7. **app > src > main > java >com > example >**

groceryapplication >

GroceryRVAdapter.kt

```
package com.example.groceryapplication
```

```
import android.annotation.SuppressLint
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.ImageView
import android.widget.TextView
import androidx.recyclerview.widget.RecyclerView
```

```
class GroceryRVAdapter(var list: List<GroceryItems>, private val
    groceryItemClickInterface:
    GroceryItemClickInterface):
    RecyclerView.Adapter<GroceryRVAdapter.GroceryViewHolder>() {
```

```
        inner class GroceryViewHolder(itemView: View) :
        RecyclerView.ViewHolder(itemView){
            val nameTV: TextView =
            itemView.findViewById(R.id.idTVItemName) val quantityTV:
            TextView = itemView.findViewById(R.id.idTVQuantity) val
            rateTV: TextView = itemView.findViewById(R.id.idTVRate)
            val amountTV: TextView =
            itemView.findViewById(R.id.idTVTotalAmt) val
            deleteTV: ImageView = itemView.findViewById(R.id.idTVDelete)
        }
```

```
interface GroceryItemClickInterface{
```



```

        fun onItemClick(groceryItems: GroceryItems)
    }

    override fun onCreateViewHolder(parent: ViewGroup,
viewType:                                Int):GroceryViewHolder {
        val view =
LayoutInflater.from(parent.context).inflate(R.layout.grocery_rv_item,parent, false)
        return GroceryViewHolder(view)
    }

@SuppressLint("SetTextI18n")
override fun onBindViewHolder(holder: GroceryViewHolder, position:
    Int) {holder.nameTV.text = list[position].itemName
    holder.quantityTV.text =
list[position].itemQuantity.toString()holder.rateTV.text =
    "Rs. "+list[position].itemPrice.toString()
    val itemTotal: Int = list[position].itemPrice *
list[position].itemQuantityholder.amountTV.text = "Rs. $itemTotal"
    holder.deleteTV.setOnClickListener{
        groceryItemClickInterface.onItemClick(list[position])
    }
}

override fun getItemCount():
    Int {returnlist.size
}
}

```

8. **app > src > main > java >com > example >**
groceryapplication >

GroceryViewModal.kt

```
package com.example.groceryapplication
```

```
import  
androidx.lifecycle.ViewModelImp  
ortkotlinx.coroutines.GlobalSco  
peimport  
kotlinx.coroutines.launch
```

```
class GroceryViewModal(private val repository: GroceryRepository) :  
    ViewModel() {fun insert(items: GroceryItems) = GlobalScope.launch {  
        repository.insert(items)  
  
    }  
    fun delete(items: GroceryItems) =  
        GlobalScope.launch {repository.delete(items)  
    }  
    fun getAllGroceryItems() = repository.getAllItems()  
  
}
```

9. **app > src > main > java >com > example >**
 groceryapplication >

GroceryViewModalFactory.kt

```
packagecom.example.groceryapplicati
```

```
on import androidx.lifecycle.ViewModel
```

```
import androidx.lifecycle.ViewModelProvider
```

```
class GroceryViewModalFactory (private val repository:
```

```

GroceryRepository)                :ViewModelProvider.NewInstanceFactory() {

    override fun <T: ViewModel> create(modelClass:
        Class<T>):T{return GroceryViewModal(repository) as T
    }
}

```

10. app > src > main > java > com > example > groceryapplication > MainActivity.kt

```

package com.example.groceryapplication

import android.annotation.Suppress
import android.app.AlertDialog
import android.os.Bundle
import
import android.widget.Button
import
import android.widget.EditText
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
import androidx.lifecycle.ViewModelProvider
import androidx.recyclerview.widget.LinearLayoutManager

import androidx.recyclerview.widget.RecyclerView
import com.google.android.material.floatingactionbutton.FloatingActionButton

class MainActivity : AppCompatActivity(),
    GroceryRVAdapter.GroceryItemClickListener {private lateinit var
    itemsRV:RecyclerView
    private lateinit var
    addFAB:FloatingActionButtonprivate lateinit var

```

```
list: List<GroceryItems>
private lateinit var groceryRVAdapter:
GroceryRVAdapter
private lateinit var
groceryViewModal: GroceryViewModal
```

```
@SuppressLint("NotifyDataSetChanged")
override fun onCreate(savedInstanceState:
Bundle?) {super.onCreate(savedInstanceState)
setContentView(R.layout.activity_main)
```

```
itemsRV=
findViewById(R.id.idRVItems)
addFAB
= findViewById(R.id.idFABAdd)
list =
ArrayList()
groceryRVAdapter = GroceryRVAdapter(list, this)
itemsRV.layoutManager = LinearLayoutManager(this)
itemsRV.adapter = groceryRVAdapter
val groceryRepository =
GroceryRepository(GroceryDatabase(this))
val factory=
GroceryViewModalFactory(groceryRepository)
groceryViewModal = ViewModelProvider(this,
factory)[GroceryViewModal::class.java]
groceryViewModal.getAllGroceryItems().observe(this) {
    groceryRVAdapter.list = it
    groceryRVAdapter.notifyDataSetChanged()
}
```

```
addFAB.setOnClickListener {
    openDialog()
}
}
```

```
@SuppressLint("NotifyDataSetChanged")
private fun openDialog() {
    val dialog = Dialog(this)
```

```

dialog setContentView(R.layout.grocery_add_dialog)
val btnCancel =
dialog.findViewById<Button>(R.id.idBtnCancel)val
addBtn = dialog.findViewById<Button>(R.id.idBtnAdd)
val itemEdt = dialog.findViewById<EditText>(R.id.idEdtItemName)
val itemPriceEdt = dialog.findViewById<EditText>(R.id.idEdtItemPrice)
val itemQuantityEdt = dialog.findViewById<EditText>(R.id.idEdtItemQuantity)
cancelBtn.setOnClickListener {
    dialog.dismiss()
}
addBtn.setOnClickListener {
    val itemName: String = itemEdt.text.toString()
    val itemPrice: String = itemPriceEdt.text.toString()
    val itemQuantity: String =
itemQuantityEdt.text.toString()val qty: Int =
itemQuantity.toInt()
    val pr: Int = itemPrice.toInt()
        if (itemName.isNotEmpty() &&
itemPrice.isNotEmpty() &&itemQuantity.isNotEmpty()) {
        val items = GroceryItems(itemName,
qty, pr)groceryViewModal.insert(items)
            Toast.makeText(applicationContext,
"Item", Toast.LENGTH_SHORT, Toast.TYPE_SUCCESS).show()
        groceryRVAdapter.notifyDataSetChanged()
        dialog.dismiss()
    } else {
        Toast.makeText(applicationContext, "Please Enter all the
data..",Toast.LENGTH_SHORT).show()
    }
}
}
dialog.show()

```

```

    }

    @SuppressWarnings("NotifyDataSetChanged")
    override fun onItemClick(groceryItems:
        GroceryItems) {
        groceryViewModal.delete(groceryItems)
        groceryRVAdapter.notifyDataSetChanged()

        Toast.makeText(applicationContext, "Item Deleted.",
            Toast.LENGTH_SHORT).show()
    }
}

```

11. app > src > main > res > drawable> custom_button_back.xml

```

<?xml version="1.0" encoding="utf-8"?>
<shape                                android:shape="rectangle"
xmlns:android="http://schemas.android.com/apk/res/android">
<corners android:radius="20dp"/>
    <solid android:color="@color/blue_shade_2"/>
</shape>

```

12. app > src > main > res > drawable > ic_add.xml

```

<vector android:height="24dp" android:tint="#000000"
    android:viewportHeight="24" android:viewportWidth="24"
    android:width="24dp"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <path android:fillColor="@android:color/white" android:pathData="M19,13h-
6v6h-2v-6H5v-2h6V5h2v6h6v2z"/>

```

</vector>

13. app > src > main > res > drawable > ic_delete.xml

```
<vector android:height="24dp" android:tint="#000000"
    android:viewportHeight="24" android:viewportWidth="24"
    android:width="24dp"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <path android:fillColor="@android:color/white" android:pathData="M6,19c0,1.1
0.9,2.2,2h8c1.1,0 2,-0.92,-2V7H6v12zM19,4h-3.5l-1,-1h-5l-1,1H5v2h14V4z"/>
</vector>
```

14. app > src > main > res > drawable > ic_launcher_background.xml

```
<?xml version="1.0" encoding="utf-8"?>
<vector xmlns:android="http://schemas.android.com/apk/res/android"
    android:width="108dp"

    android:height="108dp"
    android:viewportWidth="10
8"
    android:viewportHeight="10
8">
    <path
        android:fillColor="#3DDC84"
        android:pathData="M0,0h108v108h-
108z" />
    <path
        android:fillColor="#00000000"
        android:pathData="M9,0L9,108"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
```

```
    android:fillColor="#00000000"
    android:pathData="M19,0L19,108"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M29,0L29,108"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M39,0L39,108"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M49,0L49,108"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M59,0L59,108"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M69,0L69,108"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M79,0L79,108"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
```



```

        android:fillColor="#00000000"
        android:pathData="M89,0L89,108"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M99,0L99,108"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M0,9L108,9"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M0,19L108,19"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M0,29L108,29"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M0,39L108,39"

    android:strokeWidth="0.8"android:stro
    keColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M0,49L108,49"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path

```

```

        android:fillColor="#00000000"
        android:pathData="M0,59L108,59"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M0,69L108,69"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M0,79L108,79"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M0,89L108,89"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M0,99L108,99"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M19,29L89,29"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />

<path
    android:fillColor="#00000000"
    android:pathData="M19,39L89,39"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path

```

```
        android:fillColor="#00000000"
        android:pathData="M19,49L89,49"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M19,59L89,59"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M19,69L89,69"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M19,79L89,79"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M29,19L29,89"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"
    android:pathData="M39,19L39,89"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
    android:fillColor="#00000000"

    android:pathData="M49,19L49,89"
    android:strokeWidth="0.8"
    android:strokeColor="#33FFFFFF" />
<path
```

```

        android:fillColor="#00000000"
        android:pathData="M59,19L59,89"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M69,19L69,89"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
    <path
        android:fillColor="#00000000"
        android:pathData="M79,19L79,89"
        android:strokeWidth="0.8"
        android:strokeColor="#33FFFFFF" />
</vector>

```

15. app > src > main > res > layout> activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/blue_shade_1"
    tools:context=".MainActivity">

    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/idRVItems"
        android:layout_width="match_parent"
        android:layout_height="match_parent"

```

```

tools:listitem="@layout/grocery_rv_item" />

<com.google.android.material.floatingactionbutton.FloatingActionButton
    android:id="@+id/idFABAdd"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout_margin="20dp"
    android:backgroundTint="@color/blue_shade_2" android:src="@drawable/ic_add"
    app:tint="@color/white" />
</RelativeLayout>

```

16. app > src > main > res > layout> grocery_add_dialog.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.cardview.widget.CardView
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_gravity="center">

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="@color/blue_shade_1">

        <TextView
            android:id="@+id/idTVHeading"
            android:layout_width="match_par

```

```
ent"
android:layout_height="wrap_cont
ent" android:layout_margin="4dp"
android:gravity="center"
android:padding="4dp"
android:text="@string/add_item_to_cart"
```

```
android:textAlignment="center"
android:textAllCaps="false"
android:textColor="@color/white"
android:textSize="20sp"
android:textStyle="bold" />
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@id/idTVHeadin
g" android:orientation="vertical">
```

```
<com.google.android.material.textfield.TextInputLayout
    style="@style/TextInputEditTextTheme"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="5dp"
    android:hint="@string/enter_item_name"
    android:padding="5dp"
    android:textColorHint="@color/white"
    app:hintTextColor="@color/white">
```

```
<com.google.android.material.textfield.TextInputEdit
Text android:id="@+id/idEdtItemName"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:inputType="text"
    android:textColor="@color/white"
    android:textColorHint="@color/white"
```

```
        android:textSize="14sp" />
```

```
</com.google.android.material.textfield.TextInputLayout>
```

```
<com.google.android.material.textfield.TextInputLayout  
    style="@style/TextInputEditTextTheme"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"
```

```
        android:layout_margin="5dp"  
        android:hint="@string/enter_item_quantity"  
        android:padding="5dp"  
        android:textColorHint="@color/white"  
        app:hintTextColor="@color/white">
```

```
<com.google.android.material.textfield.TextInputEditText  
    android:id="@+id/idEdtItemQuantity"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:inputType="number"  
    android:textColor="@color/white"  
    android:textColorHint="@color/white"  
    android:textSize="14sp" />
```

```
</com.google.android.material.textfield.TextInputLayout>
```

```
<com.google.android.material.textfield.TextInputLayout  
    style="@style/TextInputEditTextTheme"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_margin="5dp"  
    android:hint="@string/enter_item_price"  
    android:padding="5dp"  
    android:textColorHint="@color/white"  
    app:hintTextColor="@color/white">
```

```
<com.google.android.material.textfield.TextInputEdit
    Text android:id="@+id/idEdtItemPrice"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:inputType="number"
    android:textColor="@color/white"
    android:textColorHint="@color/white"
    android:textSize="14sp" />
```

```
</com.google.android.material.textfield.TextInputLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="5dp"
    android:orientation="horizontal"
    android:weightSum="2">
```

```
<Button
    android:id="@+id/idBtnCancel"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_margin="8dp"
    android:layout_weight="1"
    android:background="@drawable/custom_button_black"
    android:text="@string/cancel"
    android:textAllCaps="false"
    style="?android:attr/buttonBarButtonStyle" />
```

```
<Button
    android:id="@+id/idBtnAdd"
    android:layout_width="0dp"
```



```

        android:layout_height="wrap_content"
        android:layout_margin="8dp"
        android:layout_weight="1"
        android:background="@drawable/custom_button_back"
        android:text="@string/add"
        android:textAllCaps="false"
        style="?android:attr/buttonBarButtonStyle" />
    </LinearLayout>
</LinearLayout>
</RelativeLayout>
</androidx.cardview.widget.CardView>

```

17. app > src > main > res > layout> grocery_rv_item.xml

```

<?xml version="1.0" encoding="utf-8"?>

<androidx.cardview.widget.CardView
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="8dp"
    android:backgroundTint="@color/blue_shade_2"
    app:cardCornerRadius="5dp"
    app:cardElevation="4dp">

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <LinearLayout
            android:id="@+id/idLL

```

```
1"  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:orientation="horizontal"  
    android:weightSum="5">
```

```
<TextView  
    android:id="@+id/idTVItemName"  
    android:layout_width="0dp"  
    android:layout_height="wrap_content" android:layout_margin="3dp"  
    android:layout_weight="2"  
    android:padding="4dp"  
    android:text="@string/item_name"  
    android:textColor="@color/white" />
```

```
<TextView  
    android:id="@+id/idTVQuantity"  
    android:layout_width="0dp"  
    android:layout_height="wrap_content" android:layout_margin="3dp"  
    android:layout_weight="1"
```

```
    android:padding="4dp"  
    android:text="@string/quantity"  
    android:textColor="@color/white" />
```

```
<TextView  
    android:id="@+id/idTVRate"  
    android:layout_width="0dp"  
    android:layout_height="wrap_content"
```

```
android:layout_margin="3dp"
android:layout_weight="1.5"
android:padding="4dp"
android:text="@string/rate"
android:textColor="@color/white" />
```

```
<ImageView
    android:layout_width="0dp"
    android:layout_height="wrap_cont
ent" android:layout_weight="0.5"
    android:layout_margin="3dp"
    android:padding="4dp"
    app:tint="@color/white"
    android:src="@drawable/ic_delet
e" android:id="@+id/idTVDelete"
/>
```

```
</LinearLayout>
```

```
<TextView
    android:layout_width="match_par
ent"
    android:layout_height="wrap_cont
ent"
    android:id="@+id/idTVHeading"
    android:layout_below="@+id/idLL
1" android:layout_margin="3dp"
    android:layout_toStartOf="@+id/idTVTotalAmt"
    android:padding="4dp"
    android:text="@string/total_cost"
    android:textColor="@color/white"/>
```

```
<TextView
    android:layout_width="wrap_cont
ent"
```

```

        android:layout_height="wrap_cont
ent"
        android:id="@+id/idTVTotalAmt"
        android:layout_below="@+id/idLL
1"
        android:layout_alignParentEnd="tr
ue" android:layout_margin="3dp"
        android:padding="4dp"
        android:text="@string/amt"
        android:textColor="@color/white"
    />
</RelativeLayout>
</androidx.cardview.widget.CardView>

```

18. app > src > main > res > values> colors.xml

```

<?xml version="1.0" encoding="utf-8"?>
<resources xmlns:tools="http://schemas.android.com/tools">
    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#FF6200EE</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>
    <color name="mtrl_textinput_default_box_stroke_color"
tools:override="true">#296098</color>
    <color name="blue_shade_1">#0e2433</color>
    <color name="blue_shade_2">#1C4966</color>
</resources>

```

19. app > src > main > res > values> strings.xml

```
<resources>
    <string name="app_name">Grocery Application</string>
    <string name="add_item_to_cart">Add Item to Cart</string>

    <string name="enter_item_name">Enter Item name</string>
    <string name="enter_item_quantity">Enter Item Quantity</string>
    <string name="enter_item_price">Enter Item price</string>
    <string name="cancel">Cancel</string>
    <string name="add">Add</string>
    <string name="item_name">Item Name</string>
    <string name="quantity">Quantity</string>
    <string name="rate">Rate</string>
    <string name="total_cost">Total Cost</string>
    <string name="amt">Amt</string>
</resources>
```

20. app > src > main > res > values> themes.xml

```
<resources xmlns:tools="http://schemas.android.com/tools">
    <!-- Base application theme. -->

    <style
name="Theme.GroceryApplication"
parent="Theme.MaterialComponents.DayNight.DarkActionBar">
        <!-- Primary brandcolor. -->
        <item name="colorPrimary">@color/purple_500</item>
        <item name="colorPrimaryVariant">@color/purple_700</item>
        <item name="colorOnPrimary">@color/white</item>
        <!-- Secondary brand color. -->
```

```

        <item name="colorSecondary">@color/teal_200</item>
        <item name="colorSecondaryVariant">@color/teal_700</item>
        <item name="colorOnSecondary">@color/black</item>
        <!-- Status bar color. -->

                                <item
name="android:statusBarColor"
tools:targetApi="l">?attr/colorPrimaryVariant</item>
        <!-- Customize your theme here. -->
    </style>

                                <style
name="TextInputEditTextTheme"
parent="Widget.MaterialComponents.TextInputLayout.OutlinedBox.Dense">
        <item name="boxStrokeColor">#296098</item>
        <item name="boxStrokeWidth">1dp</item>
    </style>
</resourc
es>

```