NAME: ROHIT KUMAR
ID: SPSGP 74193

Source Code : Grocery App

1. **build.gradle (project)**

```
 plugins {
 id 'com.android.application'
 id
 'org.jetbrains.kotlin.androi
 d'id 'kotlin-android'
 id 'kotlin-kapt'
  }

android {
  compileSdk33

  defaultConfig {
    applicationId
    "com.example.grocerryapp"
    minSdk21
    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.kotlinx:kotlinx-coroutines-
    core:1.6.1" api "org.jetbrains.kotlinx:kotlinx-
    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
<?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="tr
        ue"
        android:dataExtractionRules="@xml/data_extraction_rule
```

```
      s" 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=".MainActiv
         ity"
         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

```
packagecom.example.groceryapplicati

on import androidx.lifecycle.LiveData

import androidx.room.*

@Dao
interface GroceryDao {
```

```kotlin
@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

```kotlin
packagecom.example.groceryapplicati

on import android.content.Context

importandroidx.room.Databa
seimport
androidx.room.Room
import androidx.room.RoomDatabase

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

   companion
      object {
```

```kotlin
        @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**

```kotlin
packagecom.example.groceryapplicati

on import androidx.room.ColumnInfo

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

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

```kotlin
    @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

```kotlin
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 >**

GroceryRVAdapter.kt

```kotlin
package com.example.groceryapplication


importandroid.annotation.SuppressLi
ntimport
android.view.LayoutInflaterimport
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>,   privateval
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{
```

```kotlin
    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:
```

```kotlin
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

```kotlin
package com.example.groceryapplication


importandroid.annotation.Suppres
sLintimport android.app.Dialog
import android.os.Bundle
import
android.widget.Button
import
android.widget.EditText
importandroid.widget.Toa
st
importandroidx.appcompat.app.AppCompatActiv
ity importandroidx.lifecycle.ViewModelProvider
import   androidx.recyclerview.widget.LinearLayoutManager

import   androidx.recyclerview.widget.RecyclerView

import    com.google.android.material.floatingactionbutton.FloatingActionButton

class MainActivity : AppCompatActivity(),
    GroceryRVAdapter.GroceryItemClickInterface {privatelateinit var
    itemsRV:RecyclerView
    privatelateinit var
    addFAB:FloatingActionButtonprivate lateinit var
```

```kotlin
list: List<GroceryItems>
private lateinit var groceryRVAdapter:
GroceryRVAdapterprivatelateinit 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.setOnClickListe
        ner {openDialog()
    }
}

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

```kotlin
dialog.setContentView(R.layout.grocery_add_dialog)
val cancelBtn =
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                                  Inserted..",
Toast.LENGTH_SHORT).show()
        groceryRVAdapter.notifyDataSetChange
        d() dialog.dismiss()
    } else {
                    Toast.makeText(applicationContext, "Please Enter all the
data..",Toast.LENGTH_SHORT).show()

    }

}
dialog.show()
```

```kotlin
    }

    @SuppressLint("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
<?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

```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

```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
0.9,22,2h8c1.1,0 2,-0.92,-2V7H6v12zM19,4h-3.5l-1,-1h-5l-1,1H5v2h14V4z"/>
</vector>
```

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

```xml
<?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
```

```xml
    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
```

```xml
      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_sha
        de_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
```

```xml
            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"
```

```xml
        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_qua
        ntity" android:padding="5dp"
        android:textColorHint="@color/white"
        app:hintTextColor="@color/white">

        <com.google.android.material.textfield.TextInputEdit
            Text 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">
```

```xml
    <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/idBtnCance
        l" android:layout_width="0dp"
        android:layout_height="wrap_conten
        t" android:layout_margin="8dp"
        android:layout_weight="1"
        android:background="@drawable/custom_button_b
        ack" android:text="@string/cancel"
        android:textAllCaps="false"
        style="?android:attr/buttonBarButtonStyle" />

    <Button
        android:id="@+id/idBtnAd
        d"
        android:layout_width="0d
        p"
```

```
                android:layout_height="wrap_conten
                t" 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_paren
        t"
        android:layout_height="wrap_conten
        t">

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

```xml
1"
android:layout_width="match_par
ent"
android:layout_height="wrap_cont
ent"
android:orientation="horizontal"
android:weightSum="5">

<TextView
    android:id="@+id/idTVItemName"
    android:layout_width="0dp"
    android:layout_height="wrap_conten
    t" 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_cont
    ent" android:layout_margin="3dp"
    android:layout_weight="1"

    android:padding="4dp"
    android:text="@string/quantity"
    android:textColor="@color/whit
    e" />

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

```xml
            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"
```

```xml
        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
<?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:overrise                              ="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

```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

```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. -->
```

```xml
    <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>
```