

# Source Code : Grocery App

## 1. build.gradle (project)

```
plugins {  
    id 'com.android.application'  
    id 'org.jetbrains.kotlin.android'  
    id '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:kotlinx-coroutines-core:1.6.1"
    api "org.jetbrains.kotlin: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 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.groceryapplication
```

```
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.groceryapplication

```

```

import android.content.Context
import androidx.room.Database
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? = null
        private val 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**

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

```

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
groceryItemClickListener: GroceryItemClickListener):
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 GroceryItemClickListener{
    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].itemQuantity
    holder.amountTV.text = "Rs. $itemTotal"
    holder.deleteTV.setOnClickListener{
        groceryItemClickInterface.onItemClick(list[position])
    }
}

```

```

        override fun getItemCount(): Int {
            return list.size
        }
    }
}

```

## 8. app > src > main > java > com > example > groceryapplication > GroceryViewModal.kt

```

package com.example.groceryapplication

```

```

import androidx.lifecycle.ViewModel
import kotlinx.coroutines.GlobalScope
import 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**

```

package com.example.groceryapplication

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.SuppressLint
import android.app.Dialog
import android.os.Bundle
import android.widget.Button
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: FloatingActionButton
    private lateinit var list: List<GroceryItems>
    private lateinit var groceryRVAdapter: GroceryRVAdapter
    private lateinit var groceryViewModal: GroceryViewModal

    @SuppressWarnings("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()
        }
    }

    @SuppressWarnings("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)
        btnCancel.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.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,-0.9 2,-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="108"
android:viewportHeight="108">
<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:strokeColor="#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_parent"  
            android:layout_height="wrap_content"  
            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/idTVHeading"
    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.TextInputEditText
```

```
    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.TextInputEditText
    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_back"
        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/idLL1"
    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_content"
    android:layout_weight="0.5"
    android:layout_margin="3dp"
    android:padding="4dp"
    app:tint="@color/white"
    android:src="@drawable/ic_delete"
    android:id="@+id/idTVDelete"
/>
```

```
</LinearLayout>
```

```
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/idTVHeading"
    android:layout_below="@+id/idLL1"
    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_content"
    android:layout_height="wrap_content"
    android:id="@+id/idTVTotalAmt"
    android:layout_below="@+id/idLL1"
    android:layout_alignParentEnd="true"
    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">#FFFFFF</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 brand color. -->
            <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>
</resources>

```