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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

```kotlin
packagecom.example.groceryapplicati

on import androidx.lifecycle.LiveData

importandroidx.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

```kotlin
packagecom.example.groceryapplicati

on importandroid.content.Context

importandroidx.room.Data
ba seimport
androidx.room.Room
import  androidx.room.RoomDatabase

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

  companion
     object {

     @Volatile
     privatevar instance: GroceryDatabase? =
     nullprivateval LOCK = Any()

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

```kotlin
    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(

    @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

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>,
privatevalgroceryItemClickInterface:
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)
  }

```kotlin
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
peimportkotlinx.coroutines.launch

```kotlin
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

```kotlin
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

```kotlin
package com.example.groceryapplication

importandroid.annotation.Suppres
sLintimport android.app.Dialog
import android.os.Bundle
import
```

```kotlin
android.widget.Button
import
android.widget.EditText
importandroid.widget.Toa
st
importandroidx.appcompat.app.AppCompatAct
iv 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  lateinitvar

    list: List<GroceryItems>
    private lateinit var
    groceryRVAdapter:GroceryRVAdapterprivatela
    teinit 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()
```

```kotlin
        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("NotifyDataSetChang
    ed ") privatefun openDialog() {
        val dialog = Dialog(this)

        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 {
```

```kotlin
        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()

}


@SuppressLint("NotifyDataSetChanged")
overridefun 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" />
```

```xml
<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" />
```

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

```xml
<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_shad
        e_ 1">

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

            ent"
            android:layout_height="wrap_cont
            ent"android:layout_margin="4dp"a
            ndroid: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">
```

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

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

```xml
        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_conten
```

```xml
                t" android:layout_margin="5dp"
                android:orientation="horizontal"
                android:weightSum="2">


                <Button
                    android:id="@+id/idBtnCance
                    l"android:layout_width="0dp"
                    android:layout_height="wrap_cont
                    en 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_cont
                    en 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
<?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

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

            <TextView
```

```xml
        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"and
        roid: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"

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

    <ImageView
```

```xml
            android:layout_width="0dp"
            android:layout_height="wrap_cont
            ent"android:layout_weight="0.5"and
            roid: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_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_co
        nt 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"a
            ndroid: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: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>
```

```xml
    <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>
```