Activity_intro.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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"
    tools:context=".Activity.IntroActivity"
    tools:ignore="ExtraText">


    <ImageView
        android:id="@+id/imageView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="150dp"
        android:scaleType="fitXY"
        android:src="@drawable/background"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="1.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.886" />

    <ImageView
        android:id="@+id/imageView3"
        android:layout_width="327dp"
        android:layout_height="308dp"
        android:src="@drawable/logo"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.504"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.392" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Foodator"
        android:textColor="#3d33a8"
```

```xml
        android:textSize="60sp"
        android:textStyle="bold"

        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.436"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.094" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Food Delivery App"
        android:textColor="#3d33a8"
        android:textSize="30sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.502"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.748" />

    <androidx.constraintlayout.widget.ConstraintLayout
        android:id="@+id/startBtn"
        android:layout_width="0dp"
        android:layout_height="50dp"
        android:layout_marginStart="24dp"
        android:layout_marginEnd="24dp"
        android:background="@drawable/orange_button"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.938"
        tools:ignore="MissingConstraints">

        <TextView
            android:id="@+id/textView3"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Get Started"
            android:textColor="#ffffff"
```

```
                android:textSize="25sp"
                app:layout_constraintBottom_toBottomOf="parent"
                app:layout_constraintEnd_toEndOf="parent"
                app:layout_constraintHorizontal_bias="0.501"
                app:layout_constraintStart_toStartOf="parent"
                app:layout_constraintTop_toTopOf="parent" />
        </androidx.constraintlayout.widget.ConstraintLayout>

</androidx.constraintlayout.widget.ConstraintLayout>
```

Activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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:focusable="true"
    android:focusableInTouchMode="true"
    tools:context=".Activity.MainActivity">

    <androidx.coordinatorlayout.widget.CoordinatorLayout
        android:layout_width="392dp"
        android:layout_height="89dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent">

        <com.google.android.material.floatingactionbutton.FloatingActionButton
            android:id="@+id/cartBtn"
            android:layout_width="182dp"
            android:layout_height="wrap_content"
            android:backgroundTint="#ff5e00"
            android:contentDescription="Email"
            android:elevation="3dp"
            android:src="@drawable/shopping_cart"
            app:backgroundTint="#ff5e00"
            app:maxImageSize="30dp"
            app:tint="#ffffff">
```

```xml
</com.google.android.material.floatingactionbutton.FloatingActionButton>

<com.google.android.material.bottomappbar.BottomAppBar
    android:id="@+id/app_bar"
    android:layout_width="412dp"
    android:layout_height="54dp"
    android:layout_gravity="bottom"
    android:backgroundTint="#f6f6f6"
    app:fabCradleMargin="8dp"
    app:fabCradleRoundedCornerRadius="50dp"
    app:fabCradleVerticalOffset="6dp">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <LinearLayout
            android:id="@+id/homeBtn"
            android:layout_width="0dp"
            android:layout_height="match_parent"
            android:layout_weight="0.2"
            android:orientation="vertical">

            <ImageView
                android:layout_width="match_parent"
                android:layout_height="81dp"
                android:layout_weight="1"
                android:src="@drawable/bottombtn1"
                android:visibility="visible" />

            <TextView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:text="Home"
                android:textAlignment="center"
                android:textColor="#676767"
                android:textSize="12sp" />

        </LinearLayout>

        <LinearLayout
            android:id="@+id/profileBtn"
            android:layout_width="0dp"
            android:layout_height="match_parent"
            android:layout_weight="0.2"
```

```xml
        android:orientation="vertical">

    <ImageView
        android:layout_width="match_parent"
        android:layout_height="55dp"
        android:layout_weight="1"
        android:src="@drawable/bottombtn2" />

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Profile"
        android:textAlignment="center"
        android:textColor="#676767"
        android:textSize="12sp" />

</LinearLayout>

<LinearLayout
    android:layout_width="0dp"
    android:layout_height="match_parent"
    android:layout_weight="0.2"
    android:orientation="vertical"
    android:visibility="invisible">

    <ImageView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:src="@drawable/btn1" />

    <TextView
        android:id="@+id/textView15"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Home"
        android:textAlignment="center"
        android:textColor="#676767"
        android:textSize="12sp" />

</LinearLayout>

<LinearLayout
    android:id="@+id/supportBtn"
    android:layout_width="0dp"
    android:layout_height="match_parent"
```

```xml
                android:layout_weight="0.2"
                android:orientation="vertical">

                <ImageView
                    android:layout_width="67dp"
                    android:layout_height="44dp"
                    android:layout_weight="1"
                    android:src="@drawable/bottombtn3" />

                <TextView
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
                    android:text="Support"
                    android:textAlignment="center"
                    android:textColor="#676767"
                    android:textSize="12sp" />

            </LinearLayout>

            <LinearLayout
                android:id="@+id/settingBtn"
                android:layout_width="0dp"
                android:layout_height="match_parent"
                android:layout_weight="0.2"
                android:orientation="vertical">

                <ImageView
                    android:layout_width="match_parent"
                    android:layout_height="72dp"
                    android:layout_weight="1"
                    android:src="@drawable/bottombtn4" />

                <TextView
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
                    android:text="Settings"
                    android:textAlignment="center"
                    android:textColor="#676767"
                    android:textSize="12sp" />

            </LinearLayout>
        </LinearLayout>
    </com.google.android.material.bottomappbar.BottomAppBar>

</androidx.coordinatorlayout.widget.CoordinatorLayout>
```

```xml
<ScrollView
    android:id="@+id/scrollview"
    android:layout_width="match_parent"
    android:layout_height="0dp"
    android:layout_marginBottom="50dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.0">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical">

        <androidx.constraintlayout.widget.ConstraintLayout
            android:id="@+id/constraintLayout2"
            android:layout_width="match_parent"
            android:layout_height="match_parent">

            <TextView
                android:id="@+id/textView12"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_marginStart="32dp"
                android:layout_marginTop="16dp"
                android:text="Popular"
                android:textColor="#000000"
                android:textSize="18sp"
                android:textStyle="bold"
                app:layout_constraintStart_toStartOf="parent"
                app:layout_constraintTop_toBottomOf="@+id/recyclerView2" />

            <androidx.recyclerview.widget.RecyclerView
                android:id="@+id/recyclerView3"
                android:layout_width="427dp"
                android:layout_height="163dp"
                android:layout_marginTop="8dp"
                app:layout_constraintEnd_toEndOf="parent"
                app:layout_constraintHorizontal_bias="0.0"
                app:layout_constraintStart_toStartOf="parent"
                app:layout_constraintTop_toBottomOf="@+id/textView12" />

            <TextView
```

```xml
        android:id="@+id/textView10"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="32dp"
        android:layout_marginTop="16dp"
        android:text="Categories"
        android:textColor="#000000"
        android:textSize="18sp"
        android:textStyle="bold"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/constraintLayout3" />

    <TextView
        android:id="@+id/textView8"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="32dp"
        android:layout_marginTop="32dp"
        android:text="Hi Rechard"
        android:textColor="#dd3d00"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/textView9"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="8dp"
        android:text="Order &amp; Eat"
        android:textColor="#000000"
        android:textSize="20sp"
        app:layout_constraintStart_toStartOf="@+id/textView8"
        app:layout_constraintTop_toBottomOf="@+id/textView8" />

    <ImageView
        android:id="@+id/imageView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginEnd="32dp"
        app:layout_constraintBottom_toBottomOf="@+id/textView9"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintTop_toTopOf="@+id/textView8"
        app:srcCompat="@drawable/profile" />
```

```xml
<EditText
    android:id="@+id/editTextTextPersonName"
    android:layout_width="371dp"
    android:layout_height="54dp"
    android:layout_marginStart="32dp"
    android:layout_marginTop="24dp"
    android:layout_marginEnd="32dp"
    android:background="@drawable/search_background"
    android:drawableStart="@drawable/search"
    android:drawablePadding="10dp"
    android:ems="10"
    android:hint="Find Your Food"
    android:inputType="text"
    android:paddingStart="20dp"
    android:textSize="14sp"
    android:textStyle="italic"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView9" />

<androidx.recyclerview.widget.RecyclerView
    android:id="@+id/recyclerView2"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:clipToPadding="false"
    android:paddingLeft="22dp"
    android:paddingRight="22dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView10" />

<androidx.constraintlayout.widget.ConstraintLayout
    android:id="@+id/constraintLayout3"
    android:layout_width="369dp"
    android:layout_height="141dp"
    android:layout_marginStart="32dp"
    android:layout_marginTop="8dp"
    android:layout_marginEnd="32dp"
    android:background="@drawable/orange_light_banner"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="1.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName"
    app:layout_constraintVertical_bias="0.012">
```

```xml
<ImageView
    android:id="@+id/imageView2"
    android:layout_width="218dp"
    android:layout_height="122dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.6"
    app:srcCompat="@drawable/imagebanner" />

<TextView
    android:id="@+id/textView3"
    android:layout_width="127dp"
    android:layout_height="32dp"
    android:layout_marginStart="12dp"
    android:layout_marginTop="12dp"
    android:text="Free Delivery"
    android:textColor="#000000"
    android:textSize="20sp"
    android:textStyle="bold"
    app:layout_constraintStart_toEndOf="@+id/imageView2"
    app:layout_constraintTop_toTopOf="@+id/imageView2" />

<TextView
    android:id="@+id/textView5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="8dp"
    android:text="May 2- June 10"
    android:textSize="18sp"
    android:textStyle="normal"
    app:layout_constraintEnd_toEndOf="@+id/textView3"
    app:layout_constraintHorizontal_bias="1.0"
    app:layout_constraintStart_toStartOf="@+id/textView3"
    app:layout_constraintTop_toBottomOf="@+id/textView3"
    tools:textColor="#000000" />

<androidx.constraintlayout.widget.ConstraintLayout
    android:id="@+id/constraintLayout"
    android:layout_width="125dp"
    android:layout_height="34dp"
    android:background="@drawable/orange_button"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="@+id/textView5"
    app:layout_constraintHorizontal_bias="0.0"
```

```xml
                    app:layout_constraintStart_toStartOf="@+id/textView5"
                    app:layout_constraintTop_toBottomOf="@+id/textView3"
                    app:layout_constraintVertical_bias="0.719">

                <TextView
                        android:id="@+id/textView6"
                        android:layout_width="wrap_content"
                        android:layout_height="wrap_content"
                        android:layout_marginStart="24dp"
                        android:layout_marginTop="5dp"
                        android:layout_marginEnd="24dp"
                        android:layout_marginBottom="5dp"
                        android:text="Order Now"
                        android:textColor="#ffffff"
                        android:textSize="18sp"
                        app:layout_constraintBottom_toBottomOf="parent"
                        app:layout_constraintEnd_toEndOf="parent"
                        app:layout_constraintStart_toStartOf="parent"
                        app:layout_constraintTop_toTopOf="parent"
                        tools:ignore="MissingConstraints" />

            </androidx.constraintlayout.widget.ConstraintLayout>

        </androidx.constraintlayout.widget.ConstraintLayout>

    </androidx.constraintlayout.widget.ConstraintLayout>

        </LinearLayout>
    </ScrollView>

</androidx.constraintlayout.widget.ConstraintLayout>
```

Viewholder_category.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:id="@+id/mainLayout"
    android:layout_width="75dp"
```

```xml
            android:layout_height="wrap_content"
            android:layout_margin="8dp"
            android:background="@drawable/cat_background1">

        <ImageView
                android:id="@+id/categoryPic"
                android:layout_width="35dp"
                android:layout_height="35dp"
                android:layout_marginStart="10dp"
                android:layout_marginTop="10dp"
                android:layout_marginEnd="10dp"
                android:layout_marginBottom="8dp"
                android:src="@drawable/cat_1"
                app:layout_constraintBottom_toBottomOf="parent"
                app:layout_constraintEnd_toEndOf="parent"
                app:layout_constraintStart_toStartOf="parent"
                app:layout_constraintTop_toTopOf="parent"
                app:layout_constraintVertical_bias="0.0"
                app:srcCompat="@drawable/cat_1" />

        <TextView
                android:id="@+id/categoryName"
                android:layout_width="wrap_content"
                android:layout_height="30dp"
                android:layout_marginTop="8dp"
                android:layout_marginBottom="1dp"
                android:text="title"
                android:textSize="16sp"
                android:textStyle="bold"
                app:layout_constraintBottom_toBottomOf="parent"
                app:layout_constraintEnd_toEndOf="@+id/categoryPic"
                app:layout_constraintStart_toStartOf="@+id/categoryPic"
                app:layout_constraintTop_toBottomOf="@+id/categoryPic" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Viewholder_popular.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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"
```

```xml
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_margin="10dp"
    android:background="@drawable/cart_background"
    android:elevation="3dp">

    <TextView
        android:id="@+id/title"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="4dp"
        android:layout_marginTop="16dp"
        android:layout_marginEnd="4dp"
        android:text="title"
        android:textColor="#373b54"
        android:textSize="14sp"
        android:textStyle="bold"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <ImageView
        android:id="@+id/pic"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="16dp"
        android:layout_marginEnd="16dp"
        android:src="@drawable/pop_1"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/title"
        />

    <TextView
        android:id="@+id/fee"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="0.0"
        android:textColor="#373b54"
        android:textSize="18sp"
        android:textStyle="bold"
        app:layout_constraintEnd_toEndOf="@+id/pic"
        app:layout_constraintStart_toStartOf="@+id/pic"
        app:layout_constraintTop_toBottomOf="@+id/pic" />

    <TextView
```

```xml
        android:id="@+id/textView14"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginEnd="3dp"
        android:text="$"
        android:textColor="#ff3d00"
        app:layout_constraintBottom_toBottomOf="@+id/fee"
        app:layout_constraintEnd_toStartOf="@+id/fee"
        app:layout_constraintTop_toTopOf="@+id/fee" />

    <TextView
        android:id="@+id/addBtn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_margin="8dp"
        android:background="@drawable/orange_button"
        android:paddingStart="10dp"
        android:paddingTop="3dp"
        android:paddingEnd="10dp"
        android:paddingBottom="3dp"
        android:text="+Add"
        android:textColor="#ffffff"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="@+id/pic"
        app:layout_constraintHorizontal_bias="0.505"
        app:layout_constraintStart_toStartOf="@+id/pic"
        app:layout_constraintTop_toBottomOf="@+id/fee"
        app:layout_constraintVertical_bias="0.875" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

activity_show_details.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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"
```

```xml
    tools:context=".Activity.ShowDetailActivity">

    <ScrollView
        android:id="@+id/scrollView2"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        tools:layout_editor_absoluteX="0dp"
        tools:layout_editor_absoluteY="16dp">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical">

            <TextView
                android:id="@+id/titleTxt"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginTop="60dp"
                android:text="title"
                android:textAlignment="center"
                android:textColor="#373b54"
                android:textSize="24sp"
                android:textStyle="bold" />

            <TextView
                android:id="@+id/priceTxt"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:text="$"
                android:textAlignment="center"
                android:textColor="#ff5e00"
                android:textSize="24sp"/>

            <ImageView
                android:id="@+id/picfood"
                android:layout_width="match_parent"
                android:layout_height="334dp"
                app:srcCompat="@drawable/pizza" />

            <LinearLayout
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:gravity="center"
                android:orientation="horizontal">
```

```xml
            <ImageView
                android:id="@+id/minusBtn"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:src="@drawable/minus" />

            <TextView
                android:id="@+id/numberOrderTxt"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_marginStart="16dp"
                android:layout_marginEnd="16dp"
                android:text="1"
                android:textAlignment="center"
                android:textColor="#373b54"
                android:textSize="18sp"
                android:textStyle="bold" />

            <ImageView
                android:id="@+id/plusBtn"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:src="@drawable/plus" />
        </LinearLayout>

        <TextView
            android:id="@+id/descriptionTxt"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_margin="16dp"
            android:text="description"
            android:textColor="#686767"
            android:textSize="20sp"
            android:textStyle="bold" />

    </LinearLayout>
</ScrollView>

<TextView
    android:id="@+id/addToCartBtn"
    android:layout_width="0dp"
    android:layout_height="50dp"
    android:text="Add to Cart"
    android:textStyle="bold"
    android:elevation="3dp"
    android:layout_margin="16dp"
```

```
        android:background="@drawable/orange_button"
        android:gravity="center"
        android:textSize="23sp"
        android:textColor="#ffffff"
        app:layout_constraintBottom_toBottomOf="@+id/scrollView2"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Viewholder_cart.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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="wrap_content"
    android:layout_marginStart="16dp"
    android:layout_marginTop="10dp"
    android:layout_marginEnd="16dp"
    android:layout_marginBottom="10dp"
    android:elevation="3dp">

    <ImageView
        android:id="@+id/picCart"
        android:layout_width="100dp"
        android:layout_height="100dp"
        android:layout_marginStart="8dp"
        android:layout_marginTop="4dp"
        android:layout_marginBottom="4dp"
        android:src="@drawable/pop_1"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="1.0" />

    <TextView
        android:id="@+id/titleTxt"
        android:layout_width="wrap_content"
```

```xml
        android:layout_height="wrap_content"
        android:layout_marginStart="4dp"
        android:layout_marginTop="16dp"
        android:text="title"
        android:textColor="#373b54"
        android:textSize="18sp"
        android:textStyle="bold"
        app:layout_constraintStart_toEndOf="@+id/picCart"
        app:layout_constraintTop_toTopOf="@+id/picCart" />

    <ImageView
        android:id="@+id/minusCartBtn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="8dp"
        android:src="@drawable/minus"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="@+id/titleTxt" />

    <TextView
        android:id="@+id/numberItemTxt"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="12dp"
        android:text="1"
        android:textColor="#373b54"
        android:textSize="25sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="@+id/minusCartBtn"
        app:layout_constraintStart_toEndOf="@+id/minusCartBtn"
        app:layout_constraintTop_toTopOf="@+id/minusCartBtn"
        app:layout_constraintVertical_bias="1.0" />

    <ImageView
        android:id="@+id/plusCardBtn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="196dp"
        android:layout_marginBottom="4dp"
        android:src="@drawable/plus"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:id="@+id/feeEachItem"
        android:layout_width="wrap_content"
```

```xml
            android:layout_height="wrap_content"
            android:layout_marginEnd="16dp"
            android:layout_marginBottom="5dp"
            android:text="0"
            android:textColor="#373b54"
            android:textSize="16sp"

            app:layout_constraintBottom_toBottomOf="@+id/titleTxt"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintTop_toTopOf="@+id/titleTxt" />

        <TextView
            android:id="@+id/textView18"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginEnd="4dp"
            android:text="$"
            android:textColor="#ff3d00"
            app:layout_constraintBottom_toBottomOf="@+id/feeEachItem"
            app:layout_constraintEnd_toStartOf="@+id/feeEachItem"
            app:layout_constraintTop_toTopOf="@+id/feeEachItem" />

        <TextView
            android:id="@+id/totalEachItem"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="0"
            android:textColor="#373b54"
            android:textSize="18sp"
            android:textStyle="bold"
            app:layout_constraintBottom_toBottomOf="@+id/plusCardBtn"
            app:layout_constraintEnd_toEndOf="@+id/feeEachItem"
            app:layout_constraintTop_toTopOf="@+id/plusCardBtn" />

        <TextView
            android:id="@+id/textView20"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginEnd="4dp"
            android:text="$"
            android:textColor="#ff3d00"
            android:textSize="18sp"
            app:layout_constraintBottom_toBottomOf="@+id/totalEachItem"
            app:layout_constraintEnd_toStartOf="@+id/totalEachItem"
            app:layout_constraintTop_toTopOf="@+id/totalEachItem" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

activity_cart_list.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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"
    tools:context=".Activity.CartListActivity">

    <ScrollView
        android:id="@+id/scrollView3"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical">

            <TextView
                android:id="@+id/textView4"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginTop="32dp"
                android:text="My Cart"
                android:textAlignment="center"
                android:textColor="#ff3d00"
                android:textSize="20sp"
                android:textStyle="bold" />

            <androidx.recyclerview.widget.RecyclerView
                android:id="@+id/cartView1"
                android:layout_width="match_parent"
                android:layout_height="match_parent" />
```

```xml
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginStart="16dp"
    android:layout_marginTop="16dp"
    android:layout_marginEnd="16dp"
    android:layout_marginBottom="4dp"
    android:orientation="horizontal">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Items Total:"
        android:textColor="#373b54"
        android:textSize="18sp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/totalFeeTxt"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

        android:text="$0"
        android:textColor="#373b54"
        android:textSize="18sp"
        android:textStyle="bold" />
</LinearLayout>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginStart="16dp"
    android:layout_marginTop="4dp"
    android:layout_marginEnd="16dp"
    android:layout_marginBottom="4dp"
    android:orientation="horizontal">

    <TextView
        android:id="@+id/textView7"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Delivery Services:"
        android:textColor="#373b54"
        android:textSize="18sp"
```

```xml
                    android:textStyle="bold" />

            <TextView
                android:id="@+id/deliveryTxt"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"

                android:text="$0"
                android:textColor="#373b54"
                android:textSize="18sp"
                android:textStyle="bold" />
        </LinearLayout>

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_marginStart="16dp"
            android:layout_marginTop="4dp"
            android:layout_marginEnd="16dp"
            android:layout_marginBottom="4dp"
            android:orientation="horizontal">

            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:text="Tax:"
                android:textColor="#373b54"
                android:textSize="18sp"
                android:textStyle="bold" />

            <TextView
                android:id="@+id/taxTxt"
                android:layout_width="wrap_content"

                android:layout_height="wrap_content"
                android:text="$0"
                android:textColor="#373b54"
                android:textSize="18sp"
                android:textStyle="bold" />
        </LinearLayout>

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_marginStart="16dp"
```

```xml
            android:layout_marginTop="16dp"
            android:layout_marginEnd="16dp"
            android:layout_marginBottom="4dp"
            android:orientation="horizontal">

            <TextView
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_weight="1"
                android:text="Total"
                android:textColor="#373b54"
                android:textSize="30sp"
                android:textStyle="bold" />

            <TextView
                android:id="@+id/totaLTxt"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"

                android:text="$0"
                android:textColor="#373b54"
                android:textSize="30sp"
                android:textStyle="bold" />
        </LinearLayout>

        <TextView
            android:id="@+id/textView13"
            android:layout_width="match_parent"
            android:layout_height="50dp"
            android:layout_margin="16dp"
            android:background="@drawable/orange_button"
            android:gravity="center"
            android:text="CheckOut"
            android:textColor="#ffffff"
            android:textSize="25sp"
            android:textStyle="bold" />
    </LinearLayout>
</ScrollView>

<TextView
    android:id="@+id/emptyTxt"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Your Cart is Empty"
    android:textSize="16sp"
    android:textStyle="bold"
```

```xml
            android:visibility="gone"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="@+id/scrollView3"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toTopOf="@+id/scrollView3" />

    <androidx.coordinatorlayout.widget.CoordinatorLayout
            android:id="@+id/cartView"
            android:layout_width="match_parent"
            android:layout_height="100dp"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent">

        <com.google.android.material.floatingactionbutton.FloatingActionButton
                android:id="@+id/cartBtn"
                android:layout_width="222dp"
                android:layout_height="wrap_content"
                android:backgroundTint="#ff5e00"
                android:contentDescription="Email"
                android:elevation="3dp"
                android:src="@drawable/shopping_cart"
                app:backgroundTint="#ff5e00"
                app:maxImageSize="30dp"
                app:tint="#ffffff">

        </com.google.android.material.floatingactionbutton.FloatingActionButton>

        <com.google.android.material.bottomappbar.BottomAppBar
                android:id="@+id/app_bar"
                android:layout_width="match_parent"
                android:layout_height="51dp"
                android:layout_gravity="bottom"
                android:backgroundTint="#f6f6f6"
                app:fabCradleMargin="8dp"
                app:fabCradleRoundedCornerRadius="50dp"
                app:fabCradleVerticalOffset="6dp">

            <LinearLayout
                    android:layout_width="match_parent"
                    android:layout_height="match_parent">

                <LinearLayout
                        android:id="@+id/homeBtn"
                        android:layout_width="0dp"
                        android:layout_height="match_parent"
```

```xml
            android:layout_weight="0.2"
            android:orientation="vertical">

        <ImageView
                android:layout_width="match_parent"
                android:layout_height="81dp"
                android:layout_weight="1"
                android:src="@drawable/bottombtn1"
                android:visibility="visible" />

        <TextView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:text="Home"
                android:textAlignment="center"
                android:textColor="#676767"
                android:textSize="12sp" />

    </LinearLayout>

    <LinearLayout
            android:id="@+id/profileBtn"
            android:layout_width="0dp"
            android:layout_height="match_parent"
            android:layout_weight="0.2"
            android:orientation="vertical">

        <ImageView
                android:layout_width="match_parent"
                android:layout_height="55dp"
                android:layout_weight="1"
                android:src="@drawable/bottombtn2" />

        <TextView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:text="Profile"
                android:textAlignment="center"
                android:textColor="#676767"
                android:textSize="12sp" />

    </LinearLayout>

    <LinearLayout
            android:layout_width="0dp"
            android:layout_height="match_parent"
```

```xml
            android:layout_weight="0.2"
            android:orientation="vertical"
            android:visibility="invisible">

        <ImageView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:src="@drawable/btn1" />

        <TextView
            android:id="@+id/textView15"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Home"
            android:textAlignment="center"
            android:textColor="#676767"
            android:textSize="12sp" />

    </LinearLayout>

    <LinearLayout
        android:id="@+id/supportBtn"
        android:layout_width="0dp"
        android:layout_height="match_parent"
        android:layout_weight="0.2"
        android:orientation="vertical">

        <ImageView
            android:layout_width="67dp"
            android:layout_height="44dp"
            android:layout_weight="1"
            android:src="@drawable/bottombtn3" />

        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Support"
            android:textAlignment="center"
            android:textColor="#676767"
            android:textSize="12sp" />

    </LinearLayout>

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

```xml
            android:layout_width="0dp"
            android:layout_height="match_parent"
            android:layout_weight="0.2"
            android:orientation="vertical">

            <ImageView
                android:layout_width="match_parent"
                android:layout_height="72dp"
                android:layout_weight="1"
                android:src="@drawable/bottombtn4" />

            <TextView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:text="Settings"
                android:textAlignment="center"
                android:textColor="#676767"
                android:textSize="12sp" />

        </LinearLayout>
    </LinearLayout>
</com.google.android.material.bottomappbar.BottomAppBar>

    </androidx.coordinatorlayout.widget.CoordinatorLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

JAVA PART

IntroActivity

```java
package com.example.food_ordering.Activity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import androidx.appcompat.app.AppCompatActivity;
import androidx.constraintlayout.widget.ConstraintLayout;
import com.example.food_ordering.R;
```

```java
public class IntroActivity extends AppCompatActivity {
    private ConstraintLayout startBtn;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_intro);

        startBtn = findViewById(R.id.startBtn);
        startBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new Intent(IntroActivity.this,MainActivity.class));
            }
        });
    }
}
```

MainActivity

```java
package com.example.food_ordering.Activity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.LinearLayout;

import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import com.example.food_ordering.Activity.Adaptor.CategoryAdaptor;
import com.example.food_ordering.Activity.Adaptor.PopularAdaptor;
import com.example.food_ordering.Activity.Domain.CategoryDomain;
import com.example.food_ordering.Activity.Domain.FoodDomain;
import com.example.food_ordering.R;
import com.google.android.material.floatingactionbutton.FloatingActionButton;

import java.util.ArrayList;

public class MainActivity extends AppCompatActivity {
    private RecyclerView.Adapter adapter, adapter2;
```

```java
    private RecyclerView recyclerViewCategoryList, recyclerViewPopularList;

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        recyclerViewCategory();
        recyclerViewPopular();
        bottomNavigation();
    }
    private void bottomNavigation(){
        FloatingActionButton floatingActionButton=findViewById(R.id.cartBtn);
        LinearLayout homeBtn =findViewById(R.id.homeBtn);

        floatingActionButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new Intent(MainActivity.this, CartListActivity.class));
            }
        });

        homeBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new Intent(MainActivity.this, MainActivity.class));
            }
        });
    }

    private void recyclerViewCategory() {
        LinearLayoutManager linearLayoutManager = new LinearLayoutManager(this,
LinearLayoutManager.HORIZONTAL, false);
        recyclerViewCategoryList = findViewById(R.id.recyclerView2);
        recyclerViewCategoryList.setLayoutManager(linearLayoutManager);

        ArrayList<CategoryDomain> category = new ArrayList<>();
        category.add(new CategoryDomain("Pizza", "cat_1"));
        category.add(new CategoryDomain("Burger", "cat_2"));
        category.add(new CategoryDomain("Hotdog", "cat_3"));
        category.add(new CategoryDomain("Drink", "cat_4"));
        category.add(new CategoryDomain("Donut", "cat_5"));
        // startActivity(new Intent(MainActivity.this,ShowDetailActivity.class));

        adapter = new CategoryAdaptor(category);
        recyclerViewCategoryList.setAdapter(adapter);
    }
```

```java
    private void recyclerViewPopular() {
        LinearLayoutManager linearLayoutManager = new LinearLayoutManager(this,
LinearLayoutManager.HORIZONTAL, false);
        recyclerViewPopularList = findViewById(R.id.recyclerView3);
        recyclerViewPopularList.setLayoutManager(linearLayoutManager);

        ArrayList<FoodDomain> foodList = new ArrayList<>();
        foodList.add(new FoodDomain("Pepperoni pizza", "pizza1", "Slices Pepperoni,Mozzerella Cheese,Fresh
Oregano,Ground Black Pepper,Pizza Sauce", 9.76));
        foodList.add(new FoodDomain("Cheese Burger", "burger", "Beef,Gouda cheese,Special
sauce,Lettuce,Tomato", 8.79));
        foodList.add(new FoodDomain("Vegetable pizza", "pizza2", "Olive oil,Vegetable oil,Pitted
Kalamata,Cherry Tomatoes,Fresh Oregano,Basil", 8.75));

        adapter2 = new PopularAdaptor(foodList);
        recyclerViewPopularList.setAdapter(adapter2);

    }
}
```

ShowDetailActivity

```java
package com.example.food_ordering.Activity;

import android.os.Bundle;
import android.view.View;
import android.widget.ImageView;
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

import com.bumptech.glide.Glide;
import com.example.food_ordering.Activity.Domain.FoodDomain;
import com.example.food_ordering.Activity.Helper.ManagementCart;
import com.example.food_ordering.R;

public class ShowDetailActivity extends AppCompatActivity {
```

```java
private TextView addToCartBtn;
private TextView titleTxt,feeTxt,descriptionTxt,numberOrderTxt;
private ImageView plusBtn,minusBtn,picFood;
private FoodDomain object;
int numberOrder=1;
private ManagementCart managementCart;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_show_detail);

        managementCart=new ManagementCart(this);
        initView();
        getBundle();


    }

    private void getBundle() {
        object= (FoodDomain) getIntent().getSerializableExtra("object");
        int
drawableResourceId=this.getResources().getIdentifier(object.getPic(),"drawable",this.getPackageName());
        Glide.with(this)
                .load(drawableResourceId)
                .into(picFood);

        titleTxt.setText(object.getTitle());
        feeTxt.setText("$"+object.getFee());
        descriptionTxt.setText(object.getDescription());
        numberOrderTxt.setText(String.valueOf(numberOrder));


        plusBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                numberOrder=numberOrder + 1;
                numberOrderTxt.setText(String.valueOf(numberOrder));
            }
        });

        minusBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if (numberOrder > 1) {
                    numberOrder = numberOrder - 1;
                }
                numberOrderTxt.setText(String.valueOf(numberOrder));
```

```java
                }
            });

            addToCartBtn.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View v) {
                    object.setNumberInCart(numberOrder);
                    managementCart.insertFood(object);
                }
            });
    }

    private void initView() {
        addToCartBtn=findViewById(R.id.addToCartBtn);
        titleTxt=findViewById(R.id.titleTxt);
        feeTxt=findViewById(R.id.priceTxt);
        descriptionTxt=findViewById(R.id.descriptionTxt);
        numberOrderTxt=findViewById(R.id.numberOrderTxt);
        plusBtn=findViewById(R.id.plusBtn);
        minusBtn=findViewById(R.id.minusBtn);
        picFood=findViewById(R.id.picfood);
    }
}
```

CartListActivity

```java
package com.example.food_ordering.Activity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.LinearLayout;
import android.widget.ScrollView;
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import com.example.food_ordering.Activity.Adaptor.CartListAdapter;
```

```java
import com.example.food_ordering.Activity.Helper.ManagementCart;
import com.example.food_ordering.Activity.Interface.ChangeNumberItemsListener;
import com.example.food_ordering.R;
import com.google.android.material.floatingactionbutton.FloatingActionButton;

public class CartListActivity extends AppCompatActivity {
    private RecyclerView.Adapter adapter;
    private RecyclerView recyclerViewList;
    private ManagementCart managementCart;
    TextView totalfeeTxt,taxTxt,deliveryTxt,totalTxt,emptyTxt;
    private double tax;
    private ScrollView scrollView;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_cart_list);

        managementCart=new ManagementCart(this);

        initView();
        initList();
        Calculatecart();
        bottomNavigation();
    }

    private void bottomNavigation(){
        FloatingActionButton floatingActionButton=findViewById(R.id.cartBtn);
        LinearLayout homeBtn =findViewById(R.id.homeBtn);

        floatingActionButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new Intent(CartListActivity.this, CartListActivity.class));
            }
        });

        homeBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new Intent(CartListActivity.this,MainActivity.class));
            }
        });
    }

    private void initView() {
```

```java
        recyclerViewList=findViewById(R.id.cartView1);
        totalfeeTxt=findViewById(R.id.totalFeeTxt);
        taxTxt=findViewById(R.id.taxTxt);
        deliveryTxt=findViewById(R.id.deliveryTxt);
        totalTxt=findViewById(R.id.totaLTxt);
        emptyTxt=findViewById(R.id.emptyTxt);
        scrollView=findViewById(R.id.scrollView3);
        recyclerViewList=findViewById(R.id.cartView1);
    }
    private void initList(){
        LinearLayoutManager linearLayoutManager=new
LinearLayoutManager(this,LinearLayoutManager.VERTICAL,false);
        recyclerViewList.setLayoutManager(linearLayoutManager);
        adapter=new CartListAdapter(managementCart.getListCart(), this, new ChangeNumberItemsListener() {
            @Override
            public void changed() {
                Calculatecart();
            }
        });

        recyclerViewList.setAdapter(adapter);
        if(managementCart.getListCart().isEmpty()){
            emptyTxt.setVisibility(View.VISIBLE);
            scrollView.setVisibility(View.GONE);
        }else {
            emptyTxt.setVisibility(View.GONE);
            scrollView.setVisibility(View.VISIBLE);
        }
    }
    private void Calculatecart(){
        double percentTax=0.02;
        double delivery=10;
        tax=Math.round((managementCart.getTotalFee() * percentTax) * 100) / 100;
        double total = Math.round((managementCart.getTotalFee() + tax + delivery) * 100) / 100;
        double itemtotal = Math.round(managementCart.getTotalFee() * 100) / 100;

        totalfeeTxt.setText("$"+ itemtotal);
        taxTxt.setText("$"+ tax);
        deliveryTxt.setText("$"+ delivery);
        totalTxt.setText("$" + total);

    }
}
```

Adaptor

CartListAdaptor

```java
package com.example.food_ordering.Activity.Adaptor;

import android.annotation.SuppressLint;
import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

import com.bumptech.glide.Glide;
import com.example.food_ordering.Activity.Domain.FoodDomain;
import com.example.food_ordering.Activity.Helper.ManagementCart;
import com.example.food_ordering.Activity.Interface.ChangeNumberItemsListener;
import com.example.food_ordering.R;

import java.util.ArrayList;

public class CartListAdapter extends RecyclerView.Adapter<CartListAdapter.ViewHolder> {
    private ArrayList<FoodDomain> foodDomains;
    private ManagementCart managementCart;
    private ChangeNumberItemsListener changeNumberItemsListener;
    public CartListAdapter(ArrayList<FoodDomain> foodDomains, Context context, ChangeNumberItemsListener changeNumberItemsListener){
        this.foodDomains=foodDomains;
        this.managementCart= new ManagementCart(context);
        this.changeNumberItemsListener=changeNumberItemsListener;
    }

    @Override
    public ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
```

```java
        View inflate=LayoutInflater.from(parent.getContext()).inflate(R.layout.viewholder_cart,parent,false);
        return new ViewHolder(inflate);
    }


    @SuppressLint("RecyclerView")
    @Override
    public void onBindViewHolder(@NonNull CartListAdapter.ViewHolder holder, int position) {
        holder.title.setText(foodDomains.get(position).getTitle());
        holder.feeEachItem.setText(String.valueOf(foodDomains.get(position).getFee()));

holder.totalEachItem.setText(String.valueOf(Math.round((foodDomains.get(position).getNumberInCart()*
foodDomains.get(position).getFee()) * 100) / 100));
        holder.num.setText(String.valueOf(foodDomains.get(position).getNumberInCart()));

        int drawableResourceId =
holder.itemView.getContext().getResources().getIdentifier(foodDomains.get(position).getPic(),"drawable",holder.
itemView.getContext().getPackageName());

        Glide.with(holder.itemView.getContext())
                .load(drawableResourceId)
                .into(holder.pic);
        holder.plusItem.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                managementCart.plusNumberFood(foodDomains, position, new
ChangeNumberItemsListener() {
                    @Override
                    public void changed() {
                        notifyDataSetChanged();
                        changeNumberItemsListener.changed();
                    }
                });
            }
        });


        holder.minusItem.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                managementCart.minusNumberFood(foodDomains, position, new
ChangeNumberItemsListener() {
                    @Override
                    public void changed() {
                        notifyDataSetChanged();
                        changeNumberItemsListener.changed();
                    }
                });
```

```java
                }
            });
        }


        @Override
        public int getItemCount() {
            return foodDomains.size();
        }



        public    class ViewHolder extends RecyclerView.ViewHolder{
            TextView title,feeEachItem;
            ImageView pic,plusItem,minusItem;
            TextView totalEachItem,num;

            public ViewHolder(@NonNull View itemView) {
                super(itemView);
                title=itemView.findViewById(R.id.titleTxt);
                feeEachItem=itemView.findViewById(R.id.feeEachItem);
                pic=itemView.findViewById(R.id.picCart);
                totalEachItem=itemView.findViewById(R.id.totalEachItem);
                num=itemView.findViewById(R.id.numberItemTxt);
                plusItem=itemView.findViewById(R.id.plusCardBtn);
                minusItem=itemView.findViewById(R.id.minusCartBtn);
            }
        }

}
```

CategoryAdoptor

```java
package com.example.food_ordering.Activity.Adaptor;

import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;


import androidx.annotation.NonNull;
```

```java
import androidx.constraintlayout.widget.ConstraintLayout;
import androidx.core.content.ContextCompat;
import androidx.recyclerview.widget.RecyclerView;

import com.bumptech.glide.Glide;
import com.example.food_ordering.Activity.Domain.CategoryDomain;
import com.example.food_ordering.R;

import java.util.ArrayList;

public class CategoryAdaptor extends RecyclerView.Adapter<CategoryAdaptor.ViewHolder> {
    ArrayList<CategoryDomain>categoryDomains;

    public CategoryAdaptor(ArrayList<CategoryDomain> categoryDomains) {
        this.categoryDomains = categoryDomains;
    }

    @Override
    public ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
        View inflate=
LayoutInflater.from(parent.getContext()).inflate(R.layout.viewholder_category,parent,false);
        return new ViewHolder(inflate);
    }

    @Override
    public void onBindViewHolder(@NonNull ViewHolder holder, int position) {
        holder.categoryName.setText(categoryDomains.get(position).getTitle());
        String picUrl= "";
        switch (position){
            case 0:{
                picUrl="cat_1";

holder.mainLayout.setBackground(ContextCompat.getDrawable(holder.itemView.getContext(),R.drawable.cat_background1));
                break;
            }
            case 1:{
                picUrl="cat_2";

holder.mainLayout.setBackground(ContextCompat.getDrawable(holder.itemView.getContext(),R.drawable.cat_background2));
                break;
            }
            case 2:{
                picUrl="cat_3";
```

```java
        holder.mainLayout.setBackground(ContextCompat.getDrawable(holder.itemView.getContext(),R.drawable.cat_background3));
                        break;
                }
                case 3:{
                        picUrl="cat_4";

        holder.mainLayout.setBackground(ContextCompat.getDrawable(holder.itemView.getContext(),R.drawable.cat_background4));
                        break;
                }
                case 4:{
                        picUrl="cat_5";

        holder.mainLayout.setBackground(ContextCompat.getDrawable(holder.itemView.getContext(),R.drawable.cat_background5));
                        break;
                }
            }
            int
drawableResourceId=holder.itemView.getContext().getResources().getIdentifier(picUrl,"drawable",holder.itemView.getContext().getPackageName());

            Glide.with(holder.itemView.getContext())
                    .load(drawableResourceId)
                    .into(holder.categoryPic);
        }

    @Override
    public int getItemCount() {
        return categoryDomains.size();
    }

    public class ViewHolder extends RecyclerView.ViewHolder{
        TextView categoryName;
        ImageView categoryPic;
        ConstraintLayout mainLayout;

        public ViewHolder(@NonNull View itemView) {
            super(itemView);
            categoryName=itemView.findViewById(R.id.categoryName);
            categoryPic=itemView.findViewById(R.id.categoryPic);
            mainLayout=itemView.findViewById(R.id.mainLayout);
        }
    }
}
```

PopularAdoptor

```java
package com.example.food_ordering.Activity.Adaptor;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

import com.bumptech.glide.Glide;
import com.example.food_ordering.Activity.Domain.FoodDomain;
import com.example.food_ordering.Activity.ShowDetailActivity;
import com.example.food_ordering.R;

import java.util.ArrayList;

public class PopularAdaptor extends RecyclerView.Adapter<PopularAdaptor.ViewHolder> {
    ArrayList<FoodDomain> popularFood;

    public PopularAdaptor(ArrayList<FoodDomain> popularFood) {
        this.popularFood = popularFood;
    }

    @Override
    public ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
        View inflate=
LayoutInflater.from(parent.getContext()).inflate(R.layout.viewholder_popular,parent,false);
        return new ViewHolder(inflate);
    }

    @Override
```

```java
    public void onBindViewHolder(@NonNull PopularAdaptor.ViewHolder holder,
@SuppressLint("RecyclerView") int position) {
        holder.title.setText(popularFood.get(position).getTitle());
        holder.fee.setText(String.valueOf(popularFood.get(position).getFee()));

        int drawableResourceId =
holder.itemView.getContext().getResources().getIdentifier(popularFood.get(position).getPic(),"drawable",holder.itemView.getContext().getPackageName());

        Glide.with(holder.itemView.getContext())
                .load(drawableResourceId)
                .into(holder.pic);

        holder.addBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent=new Intent(holder.itemView.getContext(), ShowDetailActivity.class);
                intent.putExtra("object",popularFood.get(position));
                holder.itemView.getContext().startActivity(intent);
            }
        });
    }

    @Override
    public int getItemCount() { return popularFood.size();
    }

    public class ViewHolder extends RecyclerView.ViewHolder{
        TextView title,fee;
        ImageView pic;
        TextView addBtn;

        public ViewHolder(@NonNull View itemView) {
            super(itemView);
            title=itemView.findViewById(R.id.title);
            fee=itemView.findViewById(R.id.fee);
            pic=itemView.findViewById(R.id.pic);
            addBtn=itemView.findViewById(R.id.addBtn);
        }

    }
}
```

CategoryDomain

```java
package com.example.food_ordering.Activity.Domain;

public class CategoryDomain {
    private String title;
    private String pic;

    public CategoryDomain(String title,String pic) {
        this.title = title;
        this.pic = pic;
    }

    public String getTitle() {
        return title;
    }

    public void setTitle(String title) {
        this.title = title;
    }

    public String getPic() {
        return pic;
    }

    public void setPic(String pic) {
        this.pic = pic;
    }
}
```

FoodDomain

```java
package com.example.food_ordering.Activity.Domain;

import java.io.Serializable;

public class FoodDomain implements Serializable {
    private String title;
    private String pic;
    private String description;
    private Double fee;
    private int numberInCart;

    public FoodDomain(String title, String pic, String description, Double fee) {
        this.title = title;
        this.pic = pic;
        this.description = description;
        this.fee = fee;
    }

    public FoodDomain(String title, String pic, String description, Double fee, int numberInCart) {
        this.title = title;
        this.pic = pic;
        this.description = description;
        this.fee = fee;
        this.numberInCart = numberInCart;
    }

    public String getTitle() {
        return title;
    }

    public void setTitle(String title) {
        this.title = title;
    }

    public String getPic() {
        return pic;
    }

    public void setPic(String pic) {
        this.pic = pic;
```

```java
        }

        public String getDescription() {
            return description;
        }

        public void setDescription(String description) {
            this.description = description;
        }

        public Double getFee() {
            return fee;
        }

        public void setFee(Double fee) {
            this.fee = fee;
        }

        public int getNumberInCart() {
            return numberInCart;
        }

        public void setNumberInCart(int numberInCart) {
            this.numberInCart = numberInCart;
        }
}
```

ManagementCart

```java
package com.example.food_ordering.Activity.Helper;

import android.content.Context;
import android.widget.Toast;

import com.example.food_ordering.Activity.Domain.FoodDomain;
import com.example.food_ordering.Activity.Interface.ChangeNumberItemsListener;

import java.util.ArrayList;

public class ManagementCart {
    private Context context;
    private TinyDB tinyDB;

    public ManagementCart(Context context) {
        this.context = context;
        this.tinyDB = new TinyDB(context);
    }

    public void insertFood(FoodDomain item) {
        ArrayList<FoodDomain> listFood = getListCart();
        boolean existAlready = false;
        int n = 0;
        for (int i = 0; i < listFood.size(); i++) {
            if (listFood.get(i).getTitle().equals(item.getTitle())) {
                existAlready = true;
                n = i;
                break;
            }
        }
```

```java
        if (existAlready) {
            listFood.get(n).setNumberInCart(item.getNumberInCart());
        } else {
            listFood.add(item);
        }
        tinyDB.putListObject("CartList", listFood);
        Toast.makeText(context, "Added To Your Cart", Toast.LENGTH_SHORT).show();
    }

    public ArrayList<FoodDomain> getListCart() {

        return tinyDB.getListObject("CartList");
    }

    public void plusNumberFood(ArrayList<FoodDomain> listFood, int position, ChangeNumberItemsListener
changeNumberItemsListener) {
        listFood.get(position).setNumberInCart(listFood.get(position).getNumberInCart() + 1);
        tinyDB.putListObject("CartList", listFood);
        changeNumberItemsListener.changed();
    }

    public void minusNumberFood(ArrayList<FoodDomain> listfood, int position, ChangeNumberItemsListener
changeNumberItemsListener) {
        if (listfood.get(position).getNumberInCart() == 1) {
            listfood.remove(position);
        } else {
            listfood.get(position).setNumberInCart(listfood.get(position).getNumberInCart() - 1);
        }
        tinyDB.putListObject("CartList", listfood);
        changeNumberItemsListener.changed();
    }

    public Double getTotalFee() {
        ArrayList<FoodDomain> listfood = getListCart();
        double fee = 0;
        for (int i = 0; i < listfood.size(); i++) {
            fee = fee + (listfood.get(i).getFee() * listfood.get(i).getNumberInCart());

        }
        return fee;

    }
}
```

TinyDB

```java
/*
 * Copyright 2014 KC Ochibili
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

/*
 *    The ",_," character is not a comma, it is the SINGLE LOW-9 QUOTATION MARK unicode 201A
 *    and unicode 2017 that are used for separating the items in a list.
 */

package com.example.food_ordering.Activity.Helper;

import android.content.Context;
import android.content.SharedPreferences;
import android.graphics.Bitmap;
import android.graphics.Bitmap.CompressFormat;
import android.graphics.BitmapFactory;
import android.os.Environment;
import android.preference.PreferenceManager;
import android.text.TextUtils;
import android.util.Log;

import com.example.food_ordering.Activity.Domain.FoodDomain;
import com.google.gson.Gson;

import java.io.File;
import java.io.FileOutputStream;
import java.io.IOException;
import java.util.ArrayList;
```

```java
import java.util.Arrays;
import java.util.Map;


public class TinyDB {

    private SharedPreferences preferences;
    private String DEFAULT_APP_IMAGEDATA_DIRECTORY;
    private String lastImagePath = "";

    public TinyDB(Context appContext) {
        preferences = PreferenceManager.getDefaultSharedPreferences(appContext);
    }


    /**
     * Decodes the Bitmap from 'path' and returns it
     * @param path image path
     * @return the Bitmap from 'path'
     */
    public Bitmap getImage(String path) {
        Bitmap bitmapFromPath = null;
        try {
            bitmapFromPath = BitmapFactory.decodeFile(path);

        } catch (Exception e) {
            // TODO: handle exception
            e.printStackTrace();
        }

        return bitmapFromPath;
    }


    /**
     * Returns the String path of the last saved image
     * @return string path of the last saved image
     */
    public String getSavedImagePath() {
        return lastImagePath;
    }


    /**
     * Saves 'theBitmap' into folder 'theFolder' with the name 'theImageName'
     * @param theFolder the folder path dir you want to save it to e.g "DropBox/WorkImages"
```

```java
     * @param theImageName the name you want to assign to the image file e.g "MeAtLunch.png"
     * @param theBitmap the image you want to save as a Bitmap
     * @return returns the full path(file system address) of the saved image
     */
    public String putImage(String theFolder, String theImageName, Bitmap theBitmap) {
        if (theFolder == null || theImageName == null || theBitmap == null)
            return null;

        this.DEFAULT_APP_IMAGEDATA_DIRECTORY = theFolder;
        String mFullPath = setupFullPath(theImageName);

        if (!mFullPath.equals("")) {
            lastImagePath = mFullPath;
            saveBitmap(mFullPath, theBitmap);
        }

        return mFullPath;
    }


    /**
     * Saves 'theBitmap' into 'fullPath'
     * @param fullPath full path of the image file e.g. "Images/MeAtLunch.png"
     * @param theBitmap the image you want to save as a Bitmap
     * @return true if image was saved, false otherwise
     */
    public boolean putImageWithFullPath(String fullPath, Bitmap theBitmap) {
        return !(fullPath == null || theBitmap == null) && saveBitmap(fullPath, theBitmap);
    }

    /**
     * Creates the path for the image with name 'imageName' in DEFAULT_APP.. directory
     * @param imageName name of the image
     * @return the full path of the image. If it failed to create directory, return empty string
     */
    private String setupFullPath(String imageName) {
        File mFolder = new File(Environment.getExternalStorageDirectory(),
DEFAULT_APP_IMAGEDATA_DIRECTORY);

        if (isExternalStorageReadable() && isExternalStorageWritable() && !mFolder.exists()) {
            if (!mFolder.mkdirs()) {
                Log.e("ERROR", "Failed to setup folder");
                return "";
            }
        }
```

```java
        return mFolder.getPath() + '/' + imageName;
    }

    /**
      * Saves the Bitmap as a PNG file at path 'fullPath'
      * @param fullPath path of the image file
      * @param bitmap the image as a Bitmap
      * @return true if it successfully saved, false otherwise
      */
    private boolean saveBitmap(String fullPath, Bitmap bitmap) {
        if (fullPath == null || bitmap == null)
            return false;

        boolean fileCreated = false;
        boolean bitmapCompressed = false;
        boolean streamClosed = false;

        File imageFile = new File(fullPath);

        if (imageFile.exists())
            if (!imageFile.delete())
                return false;

        try {
            fileCreated = imageFile.createNewFile();

        } catch (IOException e) {
            e.printStackTrace();
        }

        FileOutputStream out = null;
        try {
            out = new FileOutputStream(imageFile);
            bitmapCompressed = bitmap.compress(CompressFormat.PNG, 100, out);

        } catch (Exception e) {
            e.printStackTrace();
            bitmapCompressed = false;

        } finally {
            if (out != null) {
                try {
                    out.flush();
                    out.close();
                    streamClosed = true;
```

```java
            } catch (IOException e) {
                e.printStackTrace();
                streamClosed = false;
            }
        }
    }

    return (fileCreated && bitmapCompressed && streamClosed);
}

// Getters

/**
 * Get int value from SharedPreferences at 'key'. If key not found, return 0
 * @param key SharedPreferences key
 * @return int value at 'key' or 0 if key not found
 */
public int getInt(String key) {
    return preferences.getInt(key, 0);
}

/**
 * Get parsed ArrayList of Integers from SharedPreferences at 'key'
 * @param key SharedPreferences key
 * @return ArrayList of Integers
 */
public ArrayList<Integer> getListInt(String key) {
    String[] myList = TextUtils.split(preferences.getString(key, ""), ",‿");
    ArrayList<String> arrayToList = new ArrayList<String>(Arrays.asList(myList));
    ArrayList<Integer> newList = new ArrayList<Integer>();

    for (String item : arrayToList)
        newList.add(Integer.parseInt(item));

    return newList;
}

/**
 * Get long value from SharedPreferences at 'key'. If key not found, return 0
 * @param key SharedPreferences key
 * @return long value at 'key' or 0 if key not found
 */
public long getLong(String key) {
    return preferences.getLong(key, 0);
}
```

```java
/**
 * Get float value from SharedPreferences at 'key'. If key not found, return 0
 * @param key SharedPreferences key
 * @return float value at 'key' or 0 if key not found
 */
public float getFloat(String key) {
    return preferences.getFloat(key, 0);
}

/**
 * Get double value from SharedPreferences at 'key'. If exception thrown, return 0
 * @param key SharedPreferences key
 * @return double value at 'key' or 0 if exception is thrown
 */
public double getDouble(String key) {
    String number = getString(key);

    try {
        return Double.parseDouble(number);

    } catch (NumberFormatException e) {
        return 0;
    }
}

/**
 * Get parsed ArrayList of Double from SharedPreferences at 'key'
 * @param key SharedPreferences key
 * @return ArrayList of Double
 */
public ArrayList<Double> getListDouble(String key) {
    String[] myList = TextUtils.split(preferences.getString(key, ""), ",‗,");
    ArrayList<String> arrayToList = new ArrayList<String>(Arrays.asList(myList));
    ArrayList<Double> newList = new ArrayList<Double>();

    for (String item : arrayToList)
        newList.add(Double.parseDouble(item));

    return newList;
}

/**
 * Get parsed ArrayList of Integers from SharedPreferences at 'key'
 * @param key SharedPreferences key
 * @return ArrayList of Longs
 */
```

```java
public ArrayList<Long> getListLong(String key) {
    String[] myList = TextUtils.split(preferences.getString(key, ""), "‚‗‚");
    ArrayList<String> arrayToList = new ArrayList<String>(Arrays.asList(myList));
    ArrayList<Long> newList = new ArrayList<Long>();

    for (String item : arrayToList)
        newList.add(Long.parseLong(item));

    return newList;
}

/**
 * Get String value from SharedPreferences at 'key'. If key not found, return ""
 * @param key SharedPreferences key
 * @return String value at 'key' or "" (empty String) if key not found
 */
public String getString(String key) {
    return preferences.getString(key, "");
}

/**
 * Get parsed ArrayList of String from SharedPreferences at 'key'
 * @param key SharedPreferences key
 * @return ArrayList of String
 */
public ArrayList<String> getListString(String key) {
    return new ArrayList<String>(Arrays.asList(TextUtils.split(preferences.getString(key, ""), "‚‗‚")));
}

/**
 * Get boolean value from SharedPreferences at 'key'. If key not found, return false
 * @param key SharedPreferences key
 * @return boolean value at 'key' or false if key not found
 */
public boolean getBoolean(String key) {
    return preferences.getBoolean(key, false);
}

/**
 * Get parsed ArrayList of Boolean from SharedPreferences at 'key'
 * @param key SharedPreferences key
 * @return ArrayList of Boolean
 */
public ArrayList<Boolean> getListBoolean(String key) {
    ArrayList<String> myList = getListString(key);
    ArrayList<Boolean> newList = new ArrayList<Boolean>();
```

```java
        for (String item : myList) {
            if (item.equals("true")) {
                newList.add(true);
            } else {
                newList.add(false);
            }
        }

        return newList;
    }


public ArrayList<FoodDomain> getListObject(String key){
        Gson gson = new Gson();

        ArrayList<String> objStrings = getListString(key);
        ArrayList<FoodDomain> playerList =    new ArrayList<FoodDomain>();

        for(String jObjString : objStrings){
            FoodDomain player    = gson.fromJson(jObjString,    FoodDomain.class);
            playerList.add(player);
        }
        return playerList;
    }



public <T> T getObject(String key, Class<T> classOfT){

        String json = getString(key);
        Object value = new Gson().fromJson(json, classOfT);
        if (value == null)
            throw new NullPointerException();
        return (T)value;
    }


// Put methods

/**
  * Put int value into SharedPreferences with 'key' and save
  * @param key SharedPreferences key
  * @param value int value to be added
  */
public void putInt(String key, int value) {
```

```java
        checkForNullKey(key);
        preferences.edit().putInt(key, value).apply();
    }


    /**
     * Put ArrayList of Integer into SharedPreferences with 'key' and save
     * @param key SharedPreferences key
     * @param intList ArrayList of Integer to be added
     */
    public void putListInt(String key, ArrayList<Integer> intList) {
        checkForNullKey(key);
        Integer[] myIntList = intList.toArray(new Integer[intList.size()]);
        preferences.edit().putString(key, TextUtils.join(",‗", myIntList)).apply();
    }


    /**
     * Put long value into SharedPreferences with 'key' and save
     * @param key SharedPreferences key
     * @param value long value to be added
     */
    public void putLong(String key, long value) {
        checkForNullKey(key);
        preferences.edit().putLong(key, value).apply();
    }


    /**
     * Put ArrayList of Long into SharedPreferences with 'key' and save
     * @param key SharedPreferences key
     * @param longList ArrayList of Long to be added
     */
    public void putListLong(String key, ArrayList<Long> longList) {
        checkForNullKey(key);
        Long[] myLongList = longList.toArray(new Long[longList.size()]);
        preferences.edit().putString(key, TextUtils.join(",‗", myLongList)).apply();
    }


    /**
     * Put float value into SharedPreferences with 'key' and save
     * @param key SharedPreferences key
     * @param value float value to be added
     */
    public void putFloat(String key, float value) {
        checkForNullKey(key);
        preferences.edit().putFloat(key, value).apply();
    }
```

```java
/**
 * Put double value into SharedPreferences with 'key' and save
 * @param key SharedPreferences key
 * @param value double value to be added
 */
public void putDouble(String key, double value) {
    checkForNullKey(key);
    putString(key, String.valueOf(value));
}

/**
 * Put ArrayList of Double into SharedPreferences with 'key' and save
 * @param key SharedPreferences key
 * @param doubleList ArrayList of Double to be added
 */
public void putListDouble(String key, ArrayList<Double> doubleList) {
    checkForNullKey(key);
    Double[] myDoubleList = doubleList.toArray(new Double[doubleList.size()]);
    preferences.edit().putString(key, TextUtils.join("‚‗‚", myDoubleList)).apply();
}

/**
 * Put String value into SharedPreferences with 'key' and save
 * @param key SharedPreferences key
 * @param value String value to be added
 */
public void putString(String key, String value) {
    checkForNullKey(key); checkForNullValue(value);
    preferences.edit().putString(key, value).apply();
}

/**
 * Put ArrayList of String into SharedPreferences with 'key' and save
 * @param key SharedPreferences key
 * @param stringList ArrayList of String to be added
 */
public void putListString(String key, ArrayList<String> stringList) {
    checkForNullKey(key);
    String[] myStringList = stringList.toArray(new String[stringList.size()]);
    preferences.edit().putString(key, TextUtils.join("‚‗‚", myStringList)).apply();
}

/**
 * Put boolean value into SharedPreferences with 'key' and save
 * @param key SharedPreferences key
 * @param value boolean value to be added
 */
```

```java
     */
    public void putBoolean(String key, boolean value) {
        checkForNullKey(key);
        preferences.edit().putBoolean(key, value).apply();
    }

    /**
      * Put ArrayList of Boolean into SharedPreferences with 'key' and save
      * @param key SharedPreferences key
      * @param boolList ArrayList of Boolean to be added
      */
    public void putListBoolean(String key, ArrayList<Boolean> boolList) {
        checkForNullKey(key);
        ArrayList<String> newList = new ArrayList<String>();

        for (Boolean item : boolList) {
            if (item) {
                newList.add("true");
            } else {
                newList.add("false");
            }
        }

        putListString(key, newList);
    }

    /**
      * Put ObJect any type into SharedPrefrences with 'key' and save
      * @param key SharedPreferences key
      * @param obj is the Object you want to put
      */
    public void putObject(String key, Object obj){
        checkForNullKey(key);
        Gson gson = new Gson();
        putString(key, gson.toJson(obj));
    }

    public void putListObject(String key, ArrayList<FoodDomain> playerList){
        checkForNullKey(key);
        Gson gson = new Gson();
        ArrayList<String> objStrings = new ArrayList<String>();
        for(FoodDomain player: playerList){
            objStrings.add(gson.toJson(player));
        }
        putListString(key, objStrings);
    }
```

```java
/**
 * Remove SharedPreferences item with 'key'
 * @param key SharedPreferences key
 */
public void remove(String key) {
    preferences.edit().remove(key).apply();
}


/**
 * Delete image file at 'path'
 * @param path path of image file
 * @return true if it successfully deleted, false otherwise
 */
public boolean deleteImage(String path) {
    return new File(path).delete();
}



/**
 * Clear SharedPreferences (remove everything)
 */
public void clear() {
    preferences.edit().clear().apply();
}

/**
 * Retrieve all values from SharedPreferences. Do not modify collection return by method
 * @return a Map representing a list of key/value pairs from SharedPreferences
 */
public Map<String, ?> getAll() {
    return preferences.getAll();
}



/**
 * Register SharedPreferences change listener
 * @param listener listener object of OnSharedPreferenceChangeListener
 */
public void registerOnSharedPreferenceChangeListener(
        SharedPreferences.OnSharedPreferenceChangeListener listener) {

    preferences.registerOnSharedPreferenceChangeListener(listener);
}

/**
```

```java
 * Unregister SharedPreferences change listener
 * @param listener listener object of OnSharedPreferenceChangeListener to be unregistered
 */
public void unregisterOnSharedPreferenceChangeListener(
            SharedPreferences.OnSharedPreferenceChangeListener listener) {

    preferences.unregisterOnSharedPreferenceChangeListener(listener);
}



/**
 * Check if external storage is writable or not
 * @return true if writable, false otherwise
 */
public static boolean isExternalStorageWritable() {
    return Environment.MEDIA_MOUNTED.equals(Environment.getExternalStorageState());
}

/**
 * Check if external storage is readable or not
 * @return true if readable, false otherwise
 */
public static boolean isExternalStorageReadable() {
    String state = Environment.getExternalStorageState();

    return Environment.MEDIA_MOUNTED.equals(state) ||
            Environment.MEDIA_MOUNTED_READ_ONLY.equals(state);
}
/**
 * null keys would corrupt the shared pref file and make them unreadable this is a preventive measure
 * @param key the pref key to check
 */
private void checkForNullKey(String key){
    if (key == null){
        throw new NullPointerException();
    }
}
/**
 * null keys would corrupt the shared pref file and make them unreadable this is a preventive measure
 * @param value the pref value to check
 */
private void checkForNullValue(String value){
    if (value == null){
        throw new NullPointerException();
    }
}
```

}

Interface

ChangeNumberItemsListener

```java
package com.example.food_ordering.Activity.Interface;

public interface ChangeNumberItemsListener {
    void changed();
}
```