```
import android.widget.Toast;
import java.util.ArrayList;
public class HistoryList extends AppCompatActivity {
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
       getSupportActionBar().hide(); //hide actionbar
        getWindow().setFlags(WindowManager.LayoutParams.FLAG FULLSCREEN,
this.getIntent().getExtras().getParcelableArrayList("soldItemList");
           public void onItemClicked(SoldItem item) {
                goToSoldItemDetail(item);
        recyclerList.setAdapter(adapter);
```

```
public void goToSoldItemDetail(SoldItem item) {
    System.out.println(item.dateSold);
    Intent myIntent = new Intent(this, SoldItemDetail.class);
    Bundle bundle = new Bundle();
    bundle.putParcelableArrayList("itemList", itemList);
    bundle.putParcelableArrayList("soldItemList", soldItemList);
    myIntent.putExtra("soldItemDetail", item);
    myIntent.putExtras(bundle);
    startActivity(myIntent);
}

public void backFunction(View v) {
    Intent myIntent = new Intent(this, ManagementPanel.class);
    Bundle bundle = new Bundle();
    bundle.putParcelableArrayList("itemList", itemList);
    bundle.putParcelableArrayList("soldItemList", soldItemList);
    myIntent.putExtras(bundle);
    startActivity(myIntent);
}
```

# Item.java

```
package com.example.cashregister;
import android.os.Parcel;
import android.os.Parcelable;

public class Item implements Parcelable {
    private String name;
    private int quantity;
    private double unitPrice;

    public Item(String name, int quantity, double price) {
        this.name = name;
        this.quantity = quantity;
        this.unitPrice = price;
    }

    protected Item(Parcel in) {
        name = in.readString();
        unitPrice = in.readDouble();
        quantity = in.readInt();
    }

    public static final Creator<Item> CREATOR = new Creator<Item>() {
        @Override
        public Item createFromParcel(Parcel in) {
            return new Item(in);
        }

        @Override
        public Item[] newArray(int size) {
            return new Item[size];
        }
}
```

```
public void setName(String name) {
public int getQuantity() {
public void setQuantity(int quantity) {
public double getUnitPrice() {
public String toString() {
public void writeToParcel(Parcel parcel, int flags) {
```

```
import android.widget.ArrayAdapter;
   public ItemListAdapter(Context context, int resource, List<Item> objects)
       LayoutInflater inflater = LayoutInflater.from(mContext);
       TextView tvName = (TextView)
```

#### ItemRecycleAdapter.java

```
package com.example.cashregister;
import android.annotation.SuppressLint;
import android.content.Context;
```

```
public ItemRecyclerAdapter(ArrayList<SoldItem> soldItemList, Context
    public TextView getItemName() {
    public TextView getItemPrice() {
    public TextView getItemQuantity() {
```

#### MainActivity.java

```
package com.example.cashregister;
import static java.lang.Double.parseDouble;
import static java.lang.Integer.parseInt;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Build;
import android.os.Bundle;
import android.view.Gravity;
import android.view.WindowManager;
import android.view.WindowManager;
import android.widget.Button;
import android.widget.TextView;
import com.google.android.material.snackbar.Snackbar;
import java.time.LocalDateTime;
import java.time.format.DateTimeFormatter;
import java.ttine.format.DateTimeFormatter;
import java.util.ArrayList;
```

```
protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       getSupportActionBar().hide(); //hide actionbar
       qetWindow().setFlags(WindowManager.LayoutParams.FLAG FULLSCREEN,
(this.getIntent().getExtras().getParcelableArrayList("itemList") != null) {
           itemList = utils.createItemData();
       fetchData();
   protected void onSaveInstanceState(@NonNull Bundle outState) {
       TextView totalPrice = (TextView) findViewById(R.id.totalPrice);
       outState.putString("productName", productName.getText().toString());
   public void fetchData() {
       ListView mListView = (ListView) findViewById(R.id.theList);
       ItemListAdapter adapter = new ItemListAdapter(this,
```

```
public void getDataFromSavedPage(Bundle savedInstanceState) {
       TextView totalPrice = (TextView) findViewById(R.id.totalPrice);
savedInstanceState.getParcelableArrayList("soldItemList");
       itemList = savedInstanceState.getParcelableArrayList("itemList");
       String buttonText = button.getText().toString();
       TextView resultView = (TextView) findViewById(R.id.quantity);
       resultView.append(buttonText);
       calculatePrice();
   public void renderingProductType(View v) {
       String buttonText = itemName.getText().toString();
        resultView.setText(buttonText);
       calculatePrice();
    public void goToManagementPanel(View v) {
       bundle.putParcelableArrayList("soldItemList", soldItemList);
       myIntent.putExtras(bundle);
       String str = resultView.getText().toString();
            clearTextView();
               resultView.setText(utils.popCharacter(str));
                    resultView.setText("0");
```

```
calculatePrice();
    public void clearTextView() {
        TextView resultView = (TextView) findViewById(R.id.quantity);
    public void deleteEverything(View v) {
        TextView quantity = (TextView) findViewById(R.id.quantity);
       TextView productType = (TextView) findViewById(R.id.productType);
       TextView productType = (TextView) findViewById(R.id.productType);
       TextView totalPrice = (TextView) findViewById(R.id.totalPrice);
       Item product = findItem(productType.getText().toString());
        if (quantity.getText().toString().equals("Quantity") ||
productType.getText().toString().equals("productType") ||
totalPrice.getText().toString().equals("Total") ||
quantity.getText().toString().equals("0") || product == null) {
            snackbarText = "All field are required!!!";
            int number = Integer.parseInt(quantity.getText().toString());
            if (Integer.parseInt(quantity.getText().toString()) >
                snackbarText = "No Enough quantity in the stock!!!";
                flagSnackBar = false;
        if (!flagSnackBar) {
mView.findViewById(R.id.snackbar text);
            if (Build. VERSION. SDK INT >= Build. VERSION CODES. JELLY BEAN MR1)
                mTextView.setTextAlignment(View.TEXT ALIGNMENT CENTER);
```

```
mSnackbar.setBackgroundTint(getColor(R.color.backgroundSnackBar)).setTextColo
r(getColor(R.color.black));
            mSnackbar.show();
product.sellAmount(Integer.parseInt(quantity.getText().toString()));
productType.getText().toString() + " for " +
totalPrice.getText().toString());
            SoldItem soldItem = new
SoldItem(productType.getText().toString(),
parseInt(quantity.getText().toString()),
parseDouble(totalPrice.getText().toString()), formatDateTime);
            fetchData();
            deleteEverything(v);
    public void calculatePrice() {
        TextView productName = (TextView) findViewById(R.id.productType);
        TextView quantity = (TextView) findViewById(R.id.quantity);
        if (product != null && isNumberic(quantity.getText().toString())) {
            double price = Integer.parseInt(quantity.getText().toString()) *
    public boolean isNumberic(String str) {
```

### ManagementPanel.java

```
protected void onCreate(Bundle savedInstanceState) {
WindowManager.LayoutParams.FLAG FULLSCREEN); //hide status
this.getIntent().getExtras().getParcelableArrayList("soldItemList");
    public void goToHistoryList(View v) {
    public void backFunction(View v) {
        Bundle bundle = new Bundle();
```

## SoldItem.java

```
import android.os.Parcel;
import android.os.Parcelable;
   protected SoldItem(Parcel in) {
       name = in.readString();
       total = in.readDouble();
       dateSold = in.readString();
       public SoldItem[] newArray(int size) {
   public void writeToParcel(Parcel parcel, int i) {
       parcel.writeString(name);
       parcel.writeString(dateSold);
```

```
public String getName() { return this.name;};
public int getQuantity() { return this.quantity;};
public double getTotal() { return this.total;};
public String getDateSold() { return "Purchased day: "+ this.dateSold;};
}
```

## SoldItemDetail.java

```
import java.util.ArrayList;
public class SoldItemDetail extends AppCompatActivity {
   SoldItem soldItem;
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
WindowManager.LayoutParams.FLAG FULLSCREEN);
       TextView itemPrice = (TextView) findViewById(R.id.textView5);
       TextView itemDate = (TextView) findViewById(R.id.textView6);
        itemPrice.setText("Price: $" + soldItem.getTotal());
    public void backFunction(View v) {
       Bundle bundle = new Bundle();
       bundle.putParcelableArrayList("itemList", itemList);
        bundle.putParcelableArrayList("soldItemList", soldItemList);
       myIntent.putExtras(bundle);
```

```
startActivity(myIntent);
}
```

## Util.java

```
package com.example.cashregister;
import java.util.ArrayList;

public class Utils {
    public ArrayList<Item> createItemData() {
        ArrayList<Item> itemList = new ArrayList<Item>();

        Item pante = new Item("Pante", 10, 20.44);

        Item shoes = new Item("Shoes", 100, 10.44);

        Item hats = new Item("Hats", 30, 5.9);

        itemList.add(pante);
        itemList.add(shoes);
        itemList.add(hats);

        return itemList;
    }

    public String popCharacter(String str) {
        return str.substring(0, str.length() - 1);
    }
}
```

# activity\_history\_list.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=".HistoryList">

    <LinearLayout
        android:id="@+id/header"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent">
```

```
android:backgroundTint="#00FFE1"
        <TextView
   </LinearLayout>
   <androidx.recyclerview.widget.RecyclerView</pre>
        android:layout width="match parent"
</androidx.constraintlayout.widget.ConstraintLayout>
```

# Activity\_main.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=".MainActivity">

    <TextView
        android:id="@+id/snackBar"
        android:layout_width="0dp"</pre>
```

```
android:layout height="0dp"
<TextView
<TextView
<TableLayout
    android:layout height="0dp"
```

```
android:backgroundTint="#00FFE1"
</TableRow>
        android: layout height="match parent"
```

```
</TableRow>
        android:layout height="match parent"
        android:onClick="onCLick"
        android:backgroundTint="#00FFE1"
        android:onClick="onCLick"
        android:text="8"
        android:textColor="@color/black" />
        android:onClick="onCLick"
</TableRow>
```

```
android:layout marginEnd="5dp"
            android:layout weight=".33"
            android:onClick="deleteEverything"
            android:textColor="@color/black" />
            android:backgroundTint="#00FFE1"
            android:onClick="deleteButton"
    </TableRow>
</TableLayout>
<TableLayout
</TableLayout>
<TextView
    android:layout width="wrap content"
```

```
app:layout constraintStart toStartOf="@+id/quidelineStart"
    <RelativeLayout
        <ListView
    </RelativeLayout>
</ScrollView>
    android:orientation="vertical"
<androidx.constraintlayout.widget.Guideline</pre>
    android:layout height="wrap content"
```

```
app:layout_constraintGuide_percent="0.65" />

<androidx.constraintlayout.widget.Guideline
    android:id="@+id/guideline2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    app:layout_constraintGuide_percent="0.55" />

<androidx.constraintlayout.widget.Guideline
    android:id="@+id/guideline3"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:orientation="horizontal"
    android:orientation="horizontal"
    app:layout_constraintGuide_percent="0.22" />

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

# Activity management panel.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=".ManagementPanet">

<LinearLayout
    android:id="0+id/header"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent">

<ImageButton
    android:id="0+id/imageButton"
    android:layout_width="wrap_content"
    android:layout_beight="match_parent"
    android:layout_height="match_parent"
    android:layout_onstraintStart_toStartOf="parent"
    android:layout_onstraintStart_toStartOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:srcCompat="0drawable/ic_baseline_arrow_back_24"
    tools:layout_editor_absoluteY="91dp" />

<TextView
    android:layout_width="match_parent"
    android:layout_width="match_parent"
    android:layout_width="match_parent"
    android:layout_width="match_parent"
    android:layout_beight="10do"
    android:layout_height="10do"
    android:rayout_width="match_parent"
    android:layout_height="10do"
    android:rayout_height="10do"
    android:rayout
```

## Activity sold item detail.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_width="match_parent"
android:layout_height="match_parent"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools">

<LinearLayout
    android:id="@+id/header"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent">

<ImageButton
    android:id="@+id/imageButton"
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:layout_height="match_parent"
    android:losekgroundTint="#00FFE1"
    android:onClick="backFunction"
    app:layout_constraintStart_toStartOf="parent"
    app:srcCompat="@drawable/ic_baseline_arrow_back_24"
    tools:layout editor absoluteY="91dp" />
```

```
<TextView
        android:gravity="center|left"
        android:textSize="18dp"
</LinearLayout>
    android:orientation="vertical"
   <TextView
    <TextView
        android:textColor="#000000"
    <TextView
        android:layout height="wrap content"
```

## Adapter view layout.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    android:weightSum="100">
    <LinearLayout
        android:orientation="vertical"
        <TextView
            android:layout height="wrap content"
        <TextView
    </LinearLayout>
    <TextView
```

```
android:text="TextView3"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/textView3"
    android:textSize="20sp"
    android:layout_weight="66.6"
    android:textColor="#000000"/>
</LinearLayout>
```

# Sold\_item\_recycler\_list.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    <LinearLayout
         android:orientation="vertical"
        android:layout_height="wrap_content"
android:layout_weight="33.3"
         <TextView
         <TextView
             android:textSize="20sp"
    </LinearLayout>
    <TextView
```

android:textColor="#000000"/>
</LinearLayout>