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**SE(6A) | 19F-0916**

Software For Mobile Devices

Assignment 3 List View

LIST VIEW

Main Activity Code (From Where the Program Starts):

**package** com.example.lab\_work\_smd\_section\_bsse\_6a.ListViewExamples.ImageAndTextExample;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.os.Bundle;  
**import** android.widget.ListView;  
  
**import** com.example.lab\_work\_smd\_section\_bsse\_6a.R;  
  
**public class** ImageAndTextMainActivity **extends** AppCompatActivity {  
  
 ListView **listview**;  
 String[] **Name** = gerResources().getStringArray(R.array.**Name**);  
 String[] **Text** = gerResources().getStringArray(R.array.**Text**);  
 String[] **Like** = gerResources().getStringArray(R.array.**Like**);  
 **int**[] **Image** = {R.drawable.***p1***, R.drawable.***p2***,R.drawable.***p3***,R.drawable.***p4***};  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_image\_and\_text\_main***);  
 **listview** = findViewById(R.id.***lstimageandtext***);  
 MyAdapterImageAndText adapter = **new** MyAdapterImageAndText(**this**,**Name**,**Text**,**Like**,**Image**);  
 **listview**.setAdapter(adapter);  
 }  
}

Java Class Code (For List View):

**package** com.example.lab\_work\_smd\_section\_bsse\_6a.ListViewExamples.ImageAndTextExample;  
  
**import** android.app.Activity;  
**import** android.content.Context;  
**import** android.view.LayoutInflater;  
**import** android.view.View;  
**import** android.view.ViewGroup;  
**import** android.widget.ArrayAdapter;  
**import** android.widget.ImageView;  
**import** android.widget.TextView;  
  
**import** androidx.annotation.NonNull;  
**import** androidx.annotation.Nullable;  
  
**import** com.example.lab\_work\_smd\_section\_bsse\_6a.R;  
  
**import** java.util.List;  
  
**public class** MyAdapterImageAndText **extends** ArrayAdapter<String> {  
 Activity **activity**;  
 String[] **Name**;  
 String[] **Text**;  
 String[] **Like**;  
 **int**[] **Image**;  
  
 **public** MyAdapterImageAndText( Activity activity, String[] name, String[] text, String[] like, **int**[] image) {  
 **super**(activity,R.layout.***imageandtext***,text);  
 **this**.**activity** = activity;  
 **Name** = name;  
 **Text** = text;  
 **Like** = like;  
 **Image** = image;  
 }  
  
 @NonNull  
 @Override  
 **public** View getView(**int** position, @Nullable View convertView, @NonNull ViewGroup parent) {  
 LayoutInflater inflator = **activity**.getLayoutInflater();  
 View viewHolder = inflator.inflate(R.layout.***imageandtext***,**null**);  
 TextView name = viewHolder.findViewById(R.id.***txtname***);  
 TextView text = viewHolder.findViewById(R.id.***txttext***);  
 TextView like = viewHolder.findViewById(R.id.***txtlike***);  
 ImageView imageView = viewHolder.findViewById(R.id.***imglistview***);  
  
 name.setText(**Name**[position]);  
 text.setText(**Text**[position]);  
 like.setText(**Like**[position]);  
 imageView.setImageResource(**Image**[position]);  
 **return** viewHolder;  
 }  
}

XML CODE:

*<?***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"**>  
  
  
 <**ImageView  
 android:id="@+id/imglistview"  
 android:layout\_width="481dp"  
 android:layout\_height="259dp"  
 android:contentDescription="@string/todoooo"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:srcCompat="@drawable/pic1"** />  
  
 <**ImageView  
 android:id="@+id/imageView"  
 android:layout\_width="41dp"  
 android:layout\_height="36dp"  
 android:layout\_marginStart="28dp"  
 android:layout\_marginTop="24dp"  
 android:contentDescription="@string/todoooo"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:srcCompat="@drawable/ic\_baseline\_filter\_vintage\_24"** />  
  
 <**TextView  
 android:id="@+id/txtlike"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="32dp"  
 android:text="@string/textvieww"  
 android:textAlignment="center"  
 android:textColor="#FFFFFF"  
 android:textSize="20sp"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toEndOf="@+id/imageView"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**TextView  
 android:id="@+id/txtname"  
 android:layout\_width="206dp"  
 android:layout\_height="36dp"  
 android:layout\_marginTop="96dp"  
 android:text="@string/textview"  
 android:textAlignment="center"  
 android:textColor="#FFFFFF"  
 android:textSize="34sp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**TextView  
 android:id="@+id/txttext"  
 android:layout\_width="206dp"  
 android:layout\_height="22dp"  
 android:layout\_marginTop="4dp"  
 android:text="@string/textview"  
 android:textAlignment="center"  
 android:textColor="#FFFFFF"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.526"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/txtname"  
 app:layout\_constraintVertical\_bias="0.047"** />  
  
</**androidx.constraintlayout.widget.ConstraintLayout**>

Screenshot of List View Blueprint:

Graphical user interface, application

Description automatically generated

Screenshot of List View Running Program:

A screenshot of a cell phone

Description automatically generated with medium confidenceGraphical user interface, application

Description automatically generated