Lab7

Activity 1: Modify the Task 2 – Lab 6, show the contacts in a listview. Name, Phone Number and email along with a sample image on left side of the contact.

MainActivity:

package com.example.contactlist;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.widget.ListView;  
  
import java.util.ArrayList;  
  
public class MainActivity extends AppCompatActivity {  
  
 ArrayList<User> ListofUsers = new ArrayList<User>();  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 UserAdapter adapter = new UserAdapter(this, R.layout.*contact\_view*, ListofUsers);  
 ListView listView = (ListView) findViewById(R.id.*listView*);  
 listView.setAdapter(adapter);  
  
 User user1 = new User("Safdar", "safdar@gmail.com", "03352284313", 6);  
 adapter.add(user1);  
 User user2 = new User("Nazeer", "nazerahmed@gmail.com", "0335484313", 2);  
 adapter.add(user2);  
 User user3 = new User("Hasibullah", "hasib@gmail.com", "02352284313", 3);  
 adapter.add(user3);  
 User user4 = new User("Arslan Bhutto", "arslan@gmail.com", "03052284313", 4);  
 adapter.add(user4);  
 User user5 = new User("Ghafoor Bhutto", "ghafoor@gmail.com", "003243455546", 5);  
 adapter.add(user5);  
 }  
}

Contact\_view.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">  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="100dp"  
 android:orientation="horizontal"  
 tools:layout\_editor\_absoluteX="0dp"  
 tools:layout\_editor\_absoluteY="1dp"  
 tools:ignore="MissingConstraints"  
 android:gravity="center\_vertical"  
 >  
  
 <ImageView  
 android:id="@+id/profile"  
 android:layout\_width="80dp"  
 android:layout\_height="80dp"  
 app:srcCompat="@drawable/person"  
 tools:ignore="VectorDrawableCompat" />  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="100dp"  
 android:layout\_marginStart="10dp"  
 android:layout\_marginLeft="10dp"  
 android:gravity="center\_vertical"  
 android:orientation="vertical"  
 tools:ignore="MissingConstraints"  
 tools:layout\_editor\_absoluteX="0dp"  
 tools:layout\_editor\_absoluteY="1dp">  
  
 <TextView  
 android:id="@+id/name"  
 android:layout\_width="match\_parent"  
 android:layout\_height="20dp"  
 android:layout\_marginBottom="10dp"  
 android:text="Name" />  
  
 <TextView  
 android:id="@+id/email"  
 android:layout\_width="match\_parent"  
 android:layout\_height="20dp"  
 android:layout\_marginBottom="10dp"  
 android:text="Email" />  
  
 <TextView  
 android:id="@+id/number"  
 android:layout\_width="match\_parent"  
 android:layout\_height="20dp"  
 android:text="Number" />  
 </LinearLayout>  
  
 </LinearLayout>  
</androidx.constraintlayout.widget.ConstraintLayout>

User.java

package com.example.contactlist;  
  
import java.util.Enumeration;  
  
public class User {  
  
 int imageId;  
 public String name, email, number;  
  
 public User(String name, String email, String number, int imageId) {  
 this.name = name;  
 this.email = email;  
 this.number = number;  
 this.imageId = imageId;  
 }  
  
 public String getName() {  
 return name;  
 }  
  
 public String getNumber(){  
 return number;  
 }  
  
 public String getEmail() {  
 return email;  
 }  
  
 public int getImageId() {  
 return imageId;  
 }  
  
}

UserAdapter

package com.example.contactlist;  
  
import android.content.Context;  
import android.view.ContextThemeWrapper;  
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 java.util.ArrayList;  
  
public class UserAdapter extends ArrayAdapter<User> {  
  
 Context context;  
 int resource;  
 ArrayList<User> users;  
  
 public UserAdapter(Context context, int resource, ArrayList<User> users){  
 super(context, resource, users);  
 this.context = context;  
 this.resource = resource;  
 this.users = users;  
  
 }  
  
  
  
 @NonNull  
 @Override  
 public View getView(int position, @Nullable View convertView, @NonNull ViewGroup parent) {  
 convertView = LayoutInflater.*from*(getContext()).inflate(resource, parent, false);  
 User user = this.users.get(position);  
  
 TextView name = convertView.findViewById(R.id.*name*);  
 TextView email = convertView.findViewById(R.id.*email*);  
 TextView number = convertView.findViewById(R.id.*number*);  
 ImageView image = convertView.findViewById(R.id.*profile*);  
  
 name.setText(user.name);  
 email.setText(user.email);  
 number.setText(user.number);  
 image.setImageResource(R.drawable.*person*+user.imageId);  
  
 return convertView;  
 }  
}

