**5. PARTY MANAGEMENT APPLICATION**

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="<http://schemas.android.com/apk/res/android>"  
xmlns:tools="<http://schemas.android.com/tools>"  
android:layout\_width="match\_parent"  
android:layout\_height="match\_parent"  
android:padding="16dp"  
tools:context=".MainActivity">  
  
<EditText  
android:id="@+id/guest\_name\_input"  
android:layout\_width="match\_parent"  
android:layout\_height="wrap\_content"  
android:hint="Enter guest name"  
android:layout\_alignParentTop="true"/>  
  
<Button  
android:id="@+id/add\_guest\_button"  
android:layout\_width="wrap\_content"  
android:layout\_height="wrap\_content"  
android:text="Add Guest"  
android:layout\_below="@id/guest\_name\_input"/>  
  
<Button  
android:id="@+id/delete\_guest\_button"  
android:layout\_width="wrap\_content"  
android:layout\_height="wrap\_content"  
android:text="Delete Last Guest"  
android:layout\_below="@id/add\_guest\_button"  
android:layout\_marginTop="16dp"/>  
  
<Button  
android:id="@+id/update\_guest\_button"  
android:layout\_width="wrap\_content"  
android:layout\_height="wrap\_content"  
android:text="Update Guest"  
android:layout\_below="@id/delete\_guest\_button"  
android:layout\_marginTop="16dp"/>  
  
<TextView  
android:id="@+id/guest\_list\_text\_view"  
android:layout\_width="match\_parent"  
android:layout\_height="wrap\_content"  
android:layout\_below="@id/update\_guest\_button"  
android:layout\_marginTop="16dp"  
android:text="Guest List:"  
android:textStyle="bold"/>  
  
</RelativeLayout>

package com.example.studentapplication;  
  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
import androidx.appcompat.app.AppCompatActivity;  
import java.util.ArrayList;  
import java.util.List;  
  
public class MainActivity extends AppCompatActivity {  
  
EditText guestNameInput;  
Button addGuestButton;  
TextView guestListTextView;  
Button deleteGuestButton;  
Button updateGuestButton;  
  
List<String> guestList;  
  
@Override  
protected void onCreate(Bundle savedInstanceState) {  
super.onCreate(savedInstanceState);  
setContentView(R.layout.activity\_main);  
  
guestNameInput = findViewById(R.id.guest\_name\_input);  
addGuestButton = findViewById(R.id.add\_guest\_button);  
guestListTextView = findViewById(R.id.guest\_list\_text\_view);  
deleteGuestButton = findViewById(R.id.delete\_guest\_button);  
updateGuestButton = findViewById(R.id.update\_guest\_button);  
  
guestList = new ArrayList<>();  
  
addGuestButton.setOnClickListener(new View.OnClickListener() {  
@Override  
public void onClick(View v) {  
String guestName = guestNameInput.getText().toString();  
if (!guestName.isEmpty()) {  
guestList.add(guestName);  
updateGuestList();  
guestNameInput.setText("");  
}  
}  
});  
  
deleteGuestButton.setOnClickListener(new View.OnClickListener() {  
@Override  
public void onClick(View v) {  
if (!guestList.isEmpty()) {  
guestList.remove(guestList.size() - 1);  
updateGuestList();  
}  
}  
});  
  
updateGuestButton.setOnClickListener(new View.OnClickListener() {  
@Override  
public void onClick(View v) {  
// Update functionality (not implemented in this example)  
// You may implement it to update a guest's name  
}  
});  
}  
  
private void updateGuestList() {  
StringBuilder guests = new StringBuilder();  
for (String guest : guestList) {  
guests.append(guest).append("\n");  
}  
guestListTextView.setText(guests.toString());  
}  
}