**Exp2**

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:padding="16dp">

<EditText

android:id="@+id/textField"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Enter your name" />

<Button

android:id="@+id/button"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Click Me" />

<TextView

android:id="@+id/output"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textSize="18sp"

android:paddingTop="16dp" />

</LinearLayout>

**Exp7 MainActivity.java**

package com.example.httpoperations;

import android.os.Bundle;

import android.os.StrictMode;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

import java.io.\*;

import java.net.HttpURLConnection;

import java.net.URL;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

// UI Setup

EditText urlInput = findViewById(R.id.urlInput);

TextView outputView = findViewById(R.id.outputView);

StrictMode.setThreadPolicy(new StrictMode.ThreadPolicy.Builder().permitAll().build());

// GET Request

findViewById(R.id.getButton).setOnClickListener(v ->

outputView.setText(httpRequest(urlInput.getText().toString(), "GET", null))

);

// POST Request

findViewById(R.id.postButton).setOnClickListener(v ->

outputView.setText(httpRequest(urlInput.getText().toString(), "POST", "name=John&age=30"))

);

}

private String httpRequest(String urlString, String method, String postData) {

try {

HttpURLConnection connection = (HttpURLConnection) new URL(urlString).openConnection();

connection.setRequestMethod(method);

if ("POST".equals(method)) {

connection.setDoOutput(true);

try (OutputStream os = connection.getOutputStream()) {

os.write(postData.getBytes());

}

}

if (connection.getResponseCode() == HttpURLConnection.HTTP\_OK) {

return new BufferedReader(new InputStreamReader(connection.getInputStream()))

.lines().reduce("", (acc, line) -> acc + line);

}

return method + " failed: " + connection.getResponseCode();

} catch (Exception e) {

return "Error: " + e.getMessage();

}

}

}