Activity\_main.xml

*<?***xml version="1.0" encoding="utf-8"***?>*

<**LinearLayout 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"**

**android:orientation="vertical"**

**tools:context=".MainActivity"**>

<**EditText**

**android:id="@+id/name"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:inputType="textPersonName"**

**android:hint="Name"** />

<**EditText**

**android:id="@+id/roll"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:inputType="number"**

**android:hint="Roll no "**

/>

<**Button**

**android:id="@+id/submit"**

**android:layout\_width="match\_parent"**

**android:layout\_height="wrap\_content"**

**android:text="Submit"** />

</**LinearLayout**>

MainActivity.java

**package** com.example.jevitha.a28\_googlespreadsheet\_connectivity;

**import** android.content.Context;

**import** android.os.AsyncTask;

**import** android.os.Bundle;

**import** android.support.v7.app.AppCompatActivity;

**import** android.text.TextUtils;

**import** android.util.Log;

**import** android.view.View;

**import** android.widget.Button;

**import** android.widget.EditText;

**import** android.widget.Toast;

**import** com.squareup.okhttp.MediaType;

**import** com.squareup.okhttp.OkHttpClient;

**import** com.squareup.okhttp.Request;

**import** com.squareup.okhttp.RequestBody;

**import** com.squareup.okhttp.Response;

**import** java.io.IOException;

**import** java.io.UnsupportedEncodingException;

**import** java.net.URLEncoder;

**public class** MainActivity **extends** AppCompatActivity {

**public static final** MediaType ***FORM\_DATA\_TYPE***

= MediaType.*parse*(**"application/x-www-form-urlencoded; charset=utf-8"**);

*//URL derived from form URL from network capture from web developer tools on browser*

*//https://docs.google.com/forms/d/e/1FAIpQLSe66bcJjrG7MMwdruNnUenu12ZcVJNE1Ug2l6Kui3S-bAg27A/formResponse*

**public static final** String ***URL***=**"https://docs.google.com/forms/d/e/1FAIpQLSe66bcJjrG7MMwdruNnUenu12ZcVJNE1Ug2l6Kui3S-bAg27A/formResponse"**;

*//input element ids found from the live form page or in web developer tools --> select request --> Params*

*//URL from pre filled link in google form - settings (...)*

*//https://docs.google.com/forms/d/e/1FAIpQLSe66bcJjrG7MMwdruNnUenu12ZcVJNE1Ug2l6Kui3S-bAg27A/viewform?usp=pp\_url&entry.573463116=test&entry.1601447665=123*

**public static final** String ***NAME\_KEY***=**"entry.573463116"**;

**public static final** String ***ROLL\_KEY***=**"entry.1601447665"**;

**private final** Context **context**=**this**;

**private** EditText **name**;

**private** EditText **roll**;

@Override

**protected void** onCreate(Bundle savedInstanceState){

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main***);

*//save the activity in a context variable to be used afterwards*

*//Get references to UI elements in the layout*

Button sendButton = (Button)findViewById(R.id.***submit***);

**name** = (EditText)findViewById(R.id.***name***);

**roll** = (EditText)findViewById(R.id.***roll***);

sendButton.setOnClickListener(**new** View.OnClickListener() {

@Override

**public void** onClick(View v) {

*//Make sure all the fields are filled with values*

**if**(TextUtils.*isEmpty*(**name**.getText().toString()) ||

TextUtils.*isEmpty*(**roll**.getText().toString()) )

{

Toast.*makeText*(**context**,**"All fields are mandatory."**,Toast.***LENGTH\_LONG***).show();

**return**;

}

*//Create an object for PostDataTask AsyncTask*

PostDataTask postDataTask = **new** PostDataTask();

*//execute asynctask*

postDataTask.execute(***URL***,**name**.getText().toString(),

**roll**.getText().toString() );

}

});

}

*//AsyncTask to send data as a http POST request*

**private class** PostDataTask **extends** AsyncTask<String, Void, Boolean> {

@Override

**protected** Boolean doInBackground(String... contactData) {

Boolean result = **true**;

String url = contactData[0];

String name = contactData[1];

String roll = contactData[2];

String postBody=**""**;

**try** {

*//all values must be URL encoded to make sure that special characters like & | ",etc.*

*//do not cause problems*

postBody = ***NAME\_KEY***+**"="**+ URLEncoder.*encode*(name,**"UTF-8"**) +

**"&"**+ ***ROLL\_KEY*** + **"="**+ URLEncoder.*encode*(roll,**"UTF-8"**);

} **catch** (UnsupportedEncodingException ex) {

result=**false**;

}

**try**{

*//Create OkHttpClient for sending request*

OkHttpClient client = **new** OkHttpClient();

*//Create the request body with the help of Media Type*

RequestBody body = RequestBody.*create*(***FORM\_DATA\_TYPE***, postBody);

Request request = **new** Request.Builder()

.url(url)

.post(body)

.build();

*//Send the request*

Response response = client.newCall(request).execute();

}**catch** (IOException exception){

exception.printStackTrace();

result=**false**;

}

**return** result;

}

@Override

**protected void** onPostExecute(Boolean result){

*//Print Success or failure message accordingly*

Toast.*makeText*(**context**,result?**"Message successfully sent!"**:**"There was some error in sending message. Please try again after some time."**,Toast.***LENGTH\_LONG***).show();

}

}

}

Build.gradle (Module:app)

dependencies {

implementation fileTree(**dir**: **'libs'**, **include**: [**'\*.jar'**])

implementation **'com.android.support:appcompat-v7:27.1.1'**

implementation **'com.android.support.constraint:constraint-layout:1.1.3'**

implementation **'com.squareup.okhttp:okhttp:2.3.0'**

testImplementation **'junit:junit:4.12'**

androidTestImplementation **'com.android.support.test:runner:1.0.2'**

androidTestImplementation **'com.android.support.test.espresso:espresso-core:3.0.2'**

}

AndroidManifest.xml

*<?***xml version="1.0" encoding="utf-8"***?>*

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

**package="com.example.jevitha.a28\_googlespreadsheet\_connectivity"**>

<**uses-permission android:name="android.permission.INTERNET"**/>

<**application**

**android:allowBackup="true"**

**android:icon="@mipmap/ic\_launcher"**

**android:label="@string/app\_name"**

**android:roundIcon="@mipmap/ic\_launcher\_round"**

**android:supportsRtl="true"**

**android:theme="@style/AppTheme"**>

<**activity android:name=".MainActivity"**>

<**intent-filter**>

<**action android:name="android.intent.action.MAIN"** />

<**category android:name="android.intent.category.LAUNCHER"** />

</**intent-filter**>

</**activity**>

</**application**>

</**manifest**>