

Name: Prashant Bhosale
Roll No: 804

EXPERIMENT 17

DOWNLOAD HTML

AIM: To create an application that will download HTML page from a given webpage using HttpURLConnection.

ASSIGNMENT

1. Create a basic application that allows you to download HTML from a given webpage using HttpURLConnection.

CODE

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.mca1736.httpurl">
    <uses-permission android:name="android.permission.INTERNET"></uses-
permission>
    <application android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="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>
```

download.java

```
package com.example.mca1736.httpurl;
import android.os.AsyncTask;
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.net.MalformedURLException;
```

Name: Prashant Bhosale

Roll No: 804

```
import java.net.URL;
import javax.net.ssl.HttpURLConnection;
public class download extends AsyncTask<Void,Void,Void>
{
    String data="";
    @Override
    protected Void doInBackground(Void... voids)
    { try
        { URL url=new URL("https://www.google.com");
          HttpURLConnection httpsURLConnection=
(HttpURLConnection)url.openConnection();
          InputStream inputStream=httpsURLConnection.getInputStream(); BufferedReader
          bufferedReader= new BufferedReader(new
InputStreamReader(inputStream));
          String line="";
          while(line !=null)
          { line=bufferedReader.readLine();
            data += line;
          }
        }
        catch (MalformedURLException e)
        { e.printStackTrace(); }
        catch (IOException e)
        { e.printStackTrace(); }
        return null;
    }
    @Override
    protected void onPostExecute(Void aVoid)
    { super.onPostExecute(aVoid);
      MainActivity.data.setText(data);
    }
}
```

MainActivity.java

```
package com.example.mca1736.httpurl;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle; import
android.view.View; import
android.widget.Button; import
android.widget.TextView;
public class MainActivity extends AppCompatActivity
{
    Button click;
```

Name: Prashant Bhosale

Roll No: 804

```
public static TextView data;           //used in download class so public static
@Override
protected void onCreate(Bundle savedInstanceState)
{
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    click=(Button)findViewById(R.id.btnClick);
    data=(TextView)findViewById(R.id.tvData);
    click.setOnClickListener(new View.OnClickListener()
    {
        @Override
        public void onClick(View v)
        {
            download process= new download();
            process.execute();
        }
    });
}
}
```

activity_main.xml

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

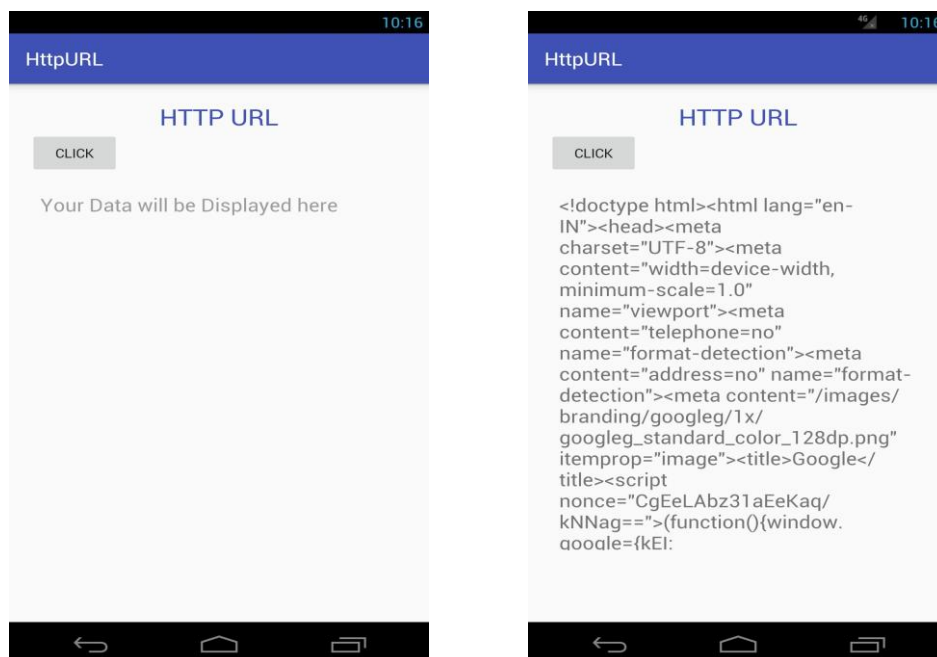
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent" android:layout_height="match_parent"
    tools:context=".MainActivity">
    <TextView android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="HTTP URL"
        android:textSize="25dp"
        android:id="@+id/tvTitle"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"
        android:textColor="@color/colorPrimary"
        />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/btnClick"
        android:text="Click"
        android:layout_below="@id/tvTitle"
```

Name: Prashant Bhosale

Roll No: 804

```
        android:layout_marginLeft="20dp"
    />
<ScrollView android:layout_width="350dp"
    android:layout_height="400dp"
    android:id="@+id/svText"
    android:layout_marginTop="20dp"
    android:layout_below="@id/btnClick"
    android:layout_centerHorizontal="true"
    >
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/tvData"
        android:hint="Your Data will be Displayed here" android:textSize="20dp"
    />
</ScrollView>
</RelativeLayout>
```

OUTPUT:



CONCLUSION:

Was able to create an application that will download HTML page from a given webpage using HttpURL Connection.