PRACTICAL-8

(Master of Computer Applications)

Subject:**Advanced Mobile Application Devlopment LAB(CAB-854)**

Submitted to Prof. Jatindra Verma

Submitted by Jayanta Barman(18mca8139)

Q.8) **Create an application that will retrieve a json file and display it in into listview.**

Ans:

**activity\_main.xml:**

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

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

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:orientation="vertical" >

<ListView

android:id="@+id/user\_list"

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:dividerHeight="1dp" />

</LinearLayout>

**list\_row.xml:**

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

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

android:layout\_width="fill\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal"

android:padding="5dip" >

<TextView

android:id="@+id/name"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textStyle="bold"

android:textSize="17dp" />

<TextView

android:id="@+id/designation"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/name"

android:layout\_marginTop="7dp"

android:textColor="#343434"

android:textSize="14dp" />

<TextView

android:id="@+id/location"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignBaseline="@+id/designation"

android:layout\_alignBottom="@+id/designation"

android:layout\_alignParentRight="true"

android:textColor="#343434"

android:textSize="14dp" />

</RelativeLayout>

**MainActivity.java:**

package com.example.jsonparser;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.util.Log;

import android.widget.ListAdapter;

import android.widget.ListView;

import android.widget.SimpleAdapter;

import org.json.JSONArray;

import org.json.JSONException;

import org.json.JSONObject;

import java.util.ArrayList;

import java.util.HashMap;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

String jsonStr = getListData();

try{

ArrayList<HashMap<String, String>> userList = new ArrayList<>();

ListView lv = (ListView) findViewById(R.id.user\_list);

JSONObject jObj = new JSONObject(jsonStr);

JSONArray jsonArry = jObj.getJSONArray("users");

for(int i=0;i<jsonArry.length();i++){

HashMap<String,String> user = new HashMap<>();

JSONObject obj = jsonArry.getJSONObject(i);

user.put("name",obj.getString("name"));

user.put("designation",obj.getString("designation"));

user.put("location",obj.getString("location"));

userList.add(user);

}

ListAdapter adapter = new SimpleAdapter(MainActivity.this, userList, R.layout.list\_row,new String[]{"name","designation","location"}, new int[]{R.id.name, R.id.designation, R.id.location});

lv.setAdapter(adapter);

}

catch (JSONException ex){

Log.e("JsonParser Example","unexpected JSON exception", ex);

}

}

private String getListData() {

String jsonStr = "{ \"users\" :[" +

"{\"name\":\"Suresh Dasari\",\"designation\":\"Team Leader\",\"location\":\"Hyderabad\"}" +

",{\"name\":\"Rohini Alavala\",\"designation\":\"Agricultural Officer\",\"location\":\"Guntur\"}" +

",{\"name\":\"Trishika Dasari\",\"designation\":\"Charted Accountant\",\"location\":\"Guntur\"}] }";

return jsonStr;

}

}

Output:

