JSON_Parsing_example_2

MainActivity.java

```java
package com.example.json_parsing_example_2;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
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 {
    ListView listview;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        listview=findViewById(R.id.user_list);
        String jsondata=getUserData();
        ArrayList<HashMap<String,String>> userlist=new ArrayList();
        try {
            JSONObject jsonobjext=new JSONObject(jsondata);
            JSONArray jsonArray=jsonobjext.getJSONArray("users");
            for (int i=0;i<jsonArray.length();i++){
                HashMap<String,String> user=new HashMap<>();
                JSONObject obj=jsonArray.getJSONObject(i);
                user.put("name",obj.getString("name"));
                user.put("designation",obj.getString("designation"));
                user.put("location",obj.getString("location"));
                userlist.add(user);
            }
            ListAdapter listAdapter=new
SimpleAdapter(MainActivity.this,userlist,R.layout.list_data,new String[]
{"name","designation","location"},new int[]{R.id.name,R.id.designation,R.id.location});
            listview.setAdapter(listAdapter);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
    private String getUserData(){
        String str="{\"users\":
[{\"name\":\"Shreyas\",\"designation\":\"Founder\",\"location\":\"Ahmedabad\"}," +

"{\"name\":\"Dev\",\"designation\":\"CEO\",\"location\":\"Ahmedabad\"}," +

"{\"name\":\"Harsh\",\"designation\":\"CFO\",\"location\":\"Ahmedabad\"}]}";
        return str;
    }
}
```

activity_main.xml

```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">
    <ListView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/user_list"
        android:dividerHeight="1dp">
    </ListView>
</LinearLayout>
```

list_data.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="horizontal">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="20dp"
        android:id="@+id/name"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="18dp"
        android:id="@+id/designation"
        android:layout_below="@+id/name"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="20dp"
        android:id="@+id/location"
        android:layout_below="@+id/designation"/>
</RelativeLayout>
```