

JSON Data Fetching

```
implementation("com.squareup.picasso:picasso:2.71828")
```

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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <ListView
        android:id="@+id/lvList"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />

    <TextView
        android:id="@+id/hidden"
        android:text="no record found!"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content" />
</LinearLayout>
```

MainActivity.java

```
package com.rohan.q2json;

import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.TextView;

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

import com.android.volley.RequestQueue;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.StringRequest;
import com.android.volley.toolbox.Volley;

import org.json.JSONArray;
import org.json.JSONException;
import org.json.JSONObject;
```

```

import java.util.ArrayList;
import java.util.Arrays;

public class MainActivity extends AppCompatActivity {

    ListView lvList;
    TextView hidden;
    protected ArrayList<String> idList, nameList, countryList, cityList,
    imageUrl;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main),
(v, insets) -> {
            Insets systemBars =
insets.getInsets(WindowInsetsCompat.Type.systemBars());
            v.setPadding(systemBars.left, systemBars.top, systemBars.right,
systemBars.bottom);
            return insets;
        });

        lvList = findViewById(R.id.lvList);
        hidden = findViewById(R.id.hidden);
        fetchData();
    }

    protected void fetchData() {
        String URL =
"https://demonuts.com/Demonuts/JsonTest/Tennis/json\_parsing.php";

        idList = new ArrayList<String>();
        nameList = new ArrayList<String>();
        countryList = new ArrayList<String>();
        cityList = new ArrayList<String>();
        imageUrl = new ArrayList<String>();

        StringRequest request = new StringRequest(URL, new
Response.Listener<String>() {
            @Override
            public void onResponse(String res) {
                try {
                    JSONObject jsonObject = new JSONObject(res);
                    JSONArray jsonArray = jsonObject.getJSONArray("data");

//                    ArrayList<String> listName = new ArrayList<String>();
                    for (int i = 0; i < jsonArray.length(); i++) {
                        JSONObject dataObject = jsonArray.getJSONObject(i);
//                        list.add(dataObject.getString("name"));
//                        String name = dataObject.getString("name");
//                        listName.add(name);

                        idList.add(dataObject.getString("id"));
                        nameList.add(dataObject.getString("name"));
                        countryList.add(dataObject.getString("country"));
                        cityList.add(dataObject.getString("city"));
                        imageUrl.add(dataObject.getString("imgURL"));
                    }
                }
            }
        });
    }
}

```

```

        CustomAdapter adapter = new
CustomAdapter(MainActivity.this, idList, nameList, countryList, cityList,
imageList);

        lvList.setEmptyView(findViewById(R.id.hidden));
        adapter.notifyDataSetChanged();
        lvList.setAdapter(adapter);

//
        ArrayAdapter<String> adapter = new
ArrayAdapter<>(MainActivity.this, android.R.layout.simple_list_item_1,
listName);
//
        lvList.setEmptyView(hidden);
//
        adapter.notifyDataSetChanged();
//
        lvList.setAdapter(adapter);

    } catch (JSONException e) {
        throw new RuntimeException(e);
    }
}
}, new Response.ErrorListener() {
    @Override
    public void onErrorResponse(VolleyError error) {
        error.printStackTrace();
    }
});

RequestQueue requestQueue = Volley.newRequestQueue(this);
requestQueue.add(request);
}
}

```

custom_list.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="horizontal"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <ImageView
        android:id="@+id/ivImage"
        android:layout_width="100dp"
        android:layout_height="100dp" />

    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="vertical">

        <TextView
            android:id="@+id/lblId"
            android:layout_width="match_parent"
            android:layout_height="wrap_content" />

        <TextView
            android:id="@+id/lblName"
            android:layout_width="match_parent"
            android:layout_height="wrap_content" />
    </LinearLayout>
</LinearLayout>

```

```

        <TextView
            android:id="@+id/lblCountry"
            android:layout_width="match_parent"
            android:layout_height="wrap_content" />

        <TextView
            android:id="@+id/lblCity"
            android:layout_width="match_parent"
            android:layout_height="wrap_content" />
    </LinearLayout>
</LinearLayout>

```

CustomAdapter.java

```

package com.rohan.q2json;

import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ArrayAdapter;
import android.widget.ImageView;
import android.widget.TextView;
import com.squareup.picasso.Picasso;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;

import java.util.ArrayList;

public class CustomAdapter extends ArrayAdapter<String> {

    protected Context context;
    protected ArrayList<String> idList, nameList, countryList, cityList,
    imageList;
    public CustomAdapter(@NonNull Context context, ArrayList<String>
    idList, ArrayList<String> nameList, ArrayList<String> countryList,
    ArrayList<String> cityList, ArrayList<String> imageList ) {
        super(context, R.layout.custom_list, nameList);
        this.context = context;
        this.idList = idList;
        this.nameList = nameList;
        this.countryList = countryList;
        this.cityList = cityList;
        this.imageList = imageList;
    }

    @NonNull
    @Override
    public View getView(int position, @Nullable View convertView, @NonNull
    ViewGroup parent) {
        LayoutInflater inflater = LayoutInflater.from(parent.getContext());
        View view = inflater.inflate(R.layout.custom_list, parent, false);

        TextView lblId = view.findViewById(R.id.lblId);
        TextView lblName = view.findViewById(R.id.lblName);
    }

```

```
TextView lblCountry = view.findViewById(R.id.lblCountry);
TextView lblCity = view.findViewById(R.id.lblCity);
ImageView ivImage = view.findViewById(R.id.ivImage);

lblId.setText(idList.get(position));
lblName.setText(nameList.get(position));
lblCountry.setText(countryList.get(position));
lblCity.setText(cityList.get(position));
Picasso.get().load(imageList.get(position)).into(ivImage);

return view;
}
}
```