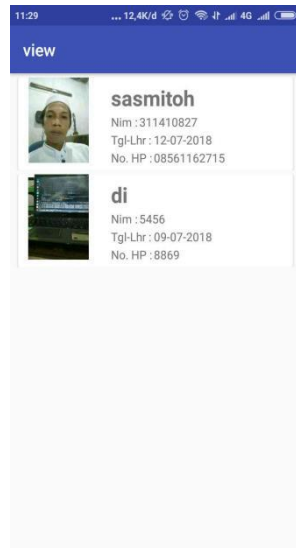**Welcome to Android Studio by**

Sasmitoh Rahmad Riady, S.Kom & Wahyu Hadikristanto, S.kom., M.Kom

Android RecyclerView Using JSon Parsing PHP MySQL Data

1. Menampilkan data mysql dengan rycylerview

Berikut adalah layout dari tampilan

2. Membuat file php untuk parsing data

- getdata.php

```php
<?php
include 'koneksi.php';
$sql = "SELECT * FROM imageupload";
$result = $con->query($sql);
if ($result->num_rows > 0) {
    // output data of each row
    while($row[] = $result->fetch_assoc()) {
    $json = json_encode(array('biodata'=>$row));
    }
```

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```
  } else {

   echo "0 results";

  }

  echo $json;

  $con->close();

  ?>
```

3. Membuat layout Android

- **activity_main.xml**

```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:id="@+id/activity_main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">


    <android.support.v7.widget.RecyclerView
        android:id="@+id/biorec"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true"
        android:layout_alignParentTop="true" />
</RelativeLayout>
```

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- **List_item.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:paddingTop="5dp">

    <android.support.v7.widget.CardView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:padding="5dp">

        <RelativeLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content">

            <ImageView
                android:id="@+id/imgdata"
                android:layout_width="100dp"
                android:layout_height="100dp"
                android:src="@mipmap/ic_launcher" />


                <LinearLayout
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
                    android:layout_centerVertical="true"
                    android:layout_marginLeft="10dp"
                    android:orientation="vertical"
                    android:padding="5dp">


                    <TextView
                        android:id="@+id/txtname"
                        android:layout_width="match_parent"
                        android:layout_height="wrap_content"
                        android:layout_marginLeft="100dp"
                        android:text="Nama"
                        android:textSize="25sp"
                        android:textStyle="bold"
                        android:layout_marginTop="2dp"/>

                    <RelativeLayout
                        android:layout_width="match_parent"
                        android:layout_height="wrap_content">
```

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```xml
            <TextView
android:layout_width="match_parent"

android:layout_height="wrap_content"
                        android:layout_marginLeft="100dp"
                        android:text="Nim :"
                        android:textSize="14sp"
                        android:layout_marginTop="2dp"/>

            <TextView
                        android:id="@+id/txtnim"

android:layout_width="match_parent"

android:layout_height="wrap_content"
                        android:layout_marginLeft="135dp"
                        android:text="value"
                        android:textSize="14sp"
                        android:layout_marginTop="2dp"/>

        </RelativeLayout>

        <RelativeLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content">

            <TextView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginLeft="100dp"
                android:layout_marginTop="2dp"
                android:text="Tgl-Lhr :"
                android:textSize="14sp" />

            <TextView
                android:id="@+id/txttgl_lahir"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_marginLeft="153dp"
                android:layout_marginTop="2dp"
                android:text="value2"
                android:textSize="14sp" />

        </RelativeLayout>

        <RelativeLayout
```

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```xml
                        android:layout_width="match_parent"
                        android:layout_height="wrap_content">

                        <TextView
                            android:layout_width="match_parent"
                            android:layout_height="wrap_content"
                            android:layout_marginLeft="100dp"
                            android:layout_marginTop="2dp"
                            android:text="No. HP :"
                            android:textSize="14sp" />

                        <TextView
                            android:id="@+id/txtnohp"
                            android:layout_width="match_parent"
                            android:layout_height="wrap_content"
                            android:layout_marginLeft="153dp"
                            android:layout_marginTop="2dp"
                            android:text="value3"
                            android:textSize="14sp" />

                    </RelativeLayout>

                </LinearLayout>
            </RelativeLayout>
        </android.support.v7.widget.CardView>

</RelativeLayout>
```

4. Membuat Class Java

Use the new Read Mode for a beautiful, distraction-free reading experience. Click **View** > **Read Mode** to check it out. While you're there, try double clicking on a picture to get a closer view. Click outside the image to return to reading.

- **AdapterList.java**

```java
package com.example.sasmitoh.view;

import android.content.Context;
```

```java
import android.support.v7.widget.RecyclerView;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;

import com.squareup.picasso.Picasso;

import java.util.ArrayList;
import java.util.HashMap;

/**
 * Created by AJISETYA.
 */
public class AdapterList extends
RecyclerView.Adapter<AdapterList.ViewHolder>{

    Context context;
    ArrayList<HashMap<String, String>> list_data;

    public AdapterList(MainActivity mainActivity,
ArrayList<HashMap<String, String>> list_data) {
        this.context = mainActivity;
        this.list_data = list_data;
    }

    @Override
    public ViewHolder onCreateViewHolder(ViewGroup parent, int
viewType) {
        View view =
LayoutInflater.from(parent.getContext()).inflate(R.layout.list_it
em, null);
        return new ViewHolder(view);
    }

    @Override
    public void onBindViewHolder(ViewHolder holder, int position)
{
        Picasso.with(context)
                .load("http://192.168.43.169/login/" +
list_data.get(position).get("image_path"))
                .placeholder(R.mipmap.ic_launcher)
                .into(holder.imgdata);

holder.txtname.setText(list_data.get(position).get("image_name"))
;

holder.txtnim.setText(list_data.get(position).get("nim"));
```

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```java
holder.txtnohp.setText(list_data.get(position).get("nohp"));

holder.txttgl_lahir.setText(list_data.get(position).get("tanggal"
));
    }

    @Override
    public int getItemCount() {
        return list_data.size();
    }

    public class ViewHolder extends RecyclerView.ViewHolder {
        TextView txtnim, txtnohp, txttgl_lahir, txtname;
        ImageView imgdata;

        public ViewHolder(View itemView) {
            super(itemView);

            txtnim =  (TextView)
itemView.findViewById(R.id.txtnim);
            txtname = (TextView)
itemView.findViewById(R.id.txtname);
            txtnohp =  (TextView)
itemView.findViewById(R.id.txtnohp);
            txttgl_lahir =  (TextView)
itemView.findViewById(R.id.txttgl_lahir);
            imgdata = (ImageView)
itemView.findViewById(R.id.imgdata);
        }
    }
}
```

- **MainActivity.java**

```java
package com.example.sasmitoh.view;


import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.support.v7.widget.LinearLayoutManager;
import android.support.v7.widget.RecyclerView;
import android.util.Log;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;

import com.android.volley.Request;
```

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```java
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.HashMap;

public class MainActivity extends AppCompatActivity {

    private RecyclerView biorc;

    private RequestQueue requestQueue;
    private StringRequest stringRequest;

    ArrayList<HashMap<String, String>> list_data;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        String url = "http://192.168.43.169/login/getdata.php";

        biorc = (RecyclerView) findViewById(R.id.biorec);
        LinearLayoutManager llm = new LinearLayoutManager(this);
        llm.setOrientation(LinearLayoutManager.VERTICAL);
        biorc.setLayoutManager(llm);

        requestQueue = Volley.newRequestQueue(MainActivity.this);

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

        stringRequest = new StringRequest(Request.Method.GET,
url, new Response.Listener<String>() {
            @Override
            public void onResponse(String response) {
                Log.d("response ", response);
                try {
                    JSONObject jsonObject = new
JSONObject(response);
                    JSONArray jsonArray =
jsonObject.getJSONArray("biodata");
                    for (int a = 0; a < jsonArray.length(); a++)
```

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```java
{
                            JSONObject json =
jsonArray.getJSONObject(a);
                            HashMap<String, String> map = new
HashMap<String, String>();
                            map.put("id", json.getString("uid"));
                            map.put("image_path",
json.getString("image_path"));
                            map.put("image_name",
json.getString("image_name"));
                            map.put("nim", json.getString("nim"));
                            map.put("nohp", json.getString("nohp"));
                            map.put("tanggal",
json.getString("tanggal"));
                            list_data.add(map);
                            AdapterList adapter = new
AdapterList(MainActivity.this, list_data);
                            biorc.setAdapter(adapter);
                        }
                } catch (JSONException e) {
                    e.printStackTrace();
                }
            }
        }, new Response.ErrorListener() {
            @Override
            public void onErrorResponse(VolleyError error) {
                Toast.makeText(MainActivity.this,
error.getMessage(), Toast.LENGTH_SHORT).show();
            }
        });

        requestQueue.add(stringRequest);
    }
}
```

- **AndroidManifest.xml**

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest
xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.sasmitoh.view">

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

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
```

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```xml
        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>
```

- **build.gradle**

```gradle
apply plugin: 'com.android.application'

android {
    compileSdkVersion 27
    defaultConfig {
        applicationId "com.example.sasmitoh.view"
        minSdkVersion 15
        targetSdkVersion 27
        versionCode 1
        versionName "1.0"
        testInstrumentationRunner
"android.support.test.runner.AndroidJUnitRunner"
    }
    buildTypes {
        release {
            minifyEnabled false
            proguardFiles getDefaultProguardFile('proguard-
android.txt'), 'proguard-rules.pro'
        }
    }
}

dependencies {
    implementation fileTree(dir: 'libs', include: ['*.jar'])
    implementation 'com.android.support.constraint:constraint-
layout:1.1.2'
    implementation 'com.android.support:appcompat-v7:27.1.1'
    implementation 'com.android.support:design:27.1.1'
```

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```
    implementation 'com.android.support:recyclerview-v7:27.1.1'
    implementation 'com.android.support:cardview-v7:27.1.1'
    implementation 'com.android.volley:volley:1.0.0' /*tambahan
volley library*/
    implementation 'com.squareup.picasso:picasso:2.5.2'
    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'
}
```

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