TUGAS PERTEMUAN 5

PRAKTIKUM APP MOBILE

Dosen Pengampu: Nurfiah, S.ST, M.Kom



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A. Model

Java

Kelas ini merupakan model untuk "Pelanggan" dengan kolom untuk id, nama, email, dan hp. Setiap kolom memiliki metode *getter* dan *setter* sendiri.

```
package com.example.connecttojson;

public class ModelPelanggan {
    String id, nama, email, hp;

    public String getId() {return id;}
    public void setId(String id) {this.id = id;}

    public String getNama() {return nama;}
    public void setNama(String nama) {this.nama = nama;}

    public String getEmail() {return email;}
    public void setEmail(String email) {this.email = email;}

    public String getHp() {return hp;}
    public void setHp(String hp) {this.hp = hp;}
}
```

B. Adapter

Lalu kita juga perlu menambahkan adapter dalam bentuk java class untuk menampung data pelanggan. Adapter pelanggan yang kita buat akan menggunakan recycle view sehingga data pelanggan nantinya akan tertampil membentuk list.

```
import android.content.Context;
import android.view.LayoutInflater;
import android.view.View.fi
import android.view.View.fi
import android.view.ViewGroup;
import android.widget.TextView;
import android.recyclerview.widget.RecyclerView;
import java.util.List;

public class AdapterPelanggan extends
RecyclerView.Adapter<AdapterPelanggan.ViewHolder> {
    private static final String TAG = AdapterPelanggan.class.getSimpleName();
    private Context context;
    private List<ModelPelanggan> list;
    private View.OnClickListener onItemClicked;

    public void setOnItemClickListener(View.OnClickListener
itemClickListener) {
        onItemClicked = itemClickListener;
    }
    public AdapterPelanggan(Context context, List<ModelPelanggan> list) {
        this.context = context;
}
```

```
this.list = list;
    public RecyclerView. ViewHolder on CreateViewHolder (ViewGroup parent, int
viewType) {
        View view =
LayoutInflater.from(parent.getContext()).inflate(R.layout.item pelanggan,
parent, false);
        return new RecyclerView.ViewHolder(view);
        ModelPelanggan item = list.get(position);
        holder.tvNama.setText(item.getNama());
        holder.tvHp.setText(item.getHp());
        this.list.clear();
    public class ViewHolder extends RecyclerView.ViewHolder {
            tvHp = (TextView) itemView.findViewById(R.id.tvItemPelHp);
            itemView.setTag(this);
```

C. MainActivity

Pada main activity kita perlu mendeklarasikan url yang dituju menggunakan ip address, recycle view, adapter, model, dan lainnya yang nantinya akan ditampilkan pada layout XML nya.

```
package com.example.connecttojson;
import android.app.ProgressDialog;
import android.content.Intent;
import android.os.Bundle;
```

```
import android.view.animation.AlphaAnimation;
import android.widget.LinearLayout;
import android.widget.TextView;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.view.ViewCompat;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;
import com.android.volley.Request;
import com.android.volley.RequestQueue;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.JsonObjectRequest;
import org.json.JSONArray;
import org.json.JSONException;
import org.json.JSONObject;
import java.util.ArrayList;
public class MainActivity extends AppCompatActivity {
    RequestQueue requestQueue;
    RecyclerView rvPelanggan;
    AdapterPelanggan adapterPelanggan;
    ArrayList<ModelPelanggan> list;
    ProgressDialog progressDialog;
    AlphaAnimation btnAnimasi = new AlphaAnimation(1F, 0,5F);
    TextView btnAdd;
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView((R.layout.activity main);
        View.setonapplywindowInsertsListener(findViewById(R.id.main),
(v.insets) -> {
            Insets systemBars =
insets.getInsets(WindowInsetsCompat.Type.systemBars());
            v.setPadding(systemBars.left, systemBars.top, systemBars.right,
systemBars.bottom);
```

```
setView();
        requestQueue = Volley.newRequestQueue(this)
        getData();
        btnAdd.setOnClickLitsener() {
                Intent intent = new Intent(MainActivity.this,
                startActivity(intent);
       btnAdd = (TextView) findViewById(R.id.btnAdd) ;
        LinearLayoutManager llm = new LinearLayoutManager(this) ;
        llm.setOrientation(LinearLayoutManager.VERTICAL);
        rvPelanggan.setLayoutManager(llm);
            v.startAnimation(btnAnimasi);
            RecyclerView.ViewHolder viewHolder = (RecyclerView.ViewHolder)
v.getTag();
            int position = viewHolder.getAdapterPosition();
            ModelPelanggan np = list.get(position);
            a.putExtra("param", "edit");
            startActivity(a);
        JsonObjectRequest jsonObjectRequest = new JsonObjectRequest(
                Request.Method. GET, base url, null, new
Response.Listener<JSONObject>() {
```

```
String status = jsonObject.getString("status");
                    String message = jsonObject.getString("message");
                    if (status.equalsIgnoreCase("true")) {
jsonObject.getJSONArray("data");
                            ModelPelanggan mp = new ModelPelanggan();
                            mp.setId(jsonObject1.getString("id"));
                            mp.setNama(jsonObject1.getString("nama"));
                            mp.setEmail(jsonObject1.getString("alamat"));
                            mp.setHp(jsonObject1.getString("hp"));
                            list.add(mp);
AdapterPelanggan (MainActivity.this, list);
                        adapterPelanggan.notifyDataSetChanged();
                        rvPelanggan.setAdapter(adapterPelanggan);
""+jsonArray.toString(), Toast.LENGTH SHORT).show();
                        Toast.makeText(MainActivity.this, ""+message,
                } catch (JSONException e) {
                    throw new RuntimeException(e);
            public void onErrorResponse(VolleyError volleyError) {
        requestQueue.add(jsonObjectRequest);
```

Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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="0+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <androidx.recyclerview.widget.RecyclerView
        android:id="0+id/rvPelanggan"
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight= "1"
        android:layout_weight= "1"
        android:padding="16dp"
        tools:ignore="MissingConstraints">

    </androidx.recyclerview.widget.RecyclerView>

</androidx.constraintlayout.widget.ConstraintLayout>
```

D. Manifest

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   <uses-permission android:name="android.permission.INTERNET" />
   <application
       android:allowBackup="true"
       android:dataExtractionRules="@xml/data extraction rules"
       android:fullBackupContent="@xml/backup rules"
       android:label="@string/app name"
       android:roundIcon="@mipmap/ic launcher round"
       android:supportsRtl="true"
       android:theme="@style/Theme.ConnectToJson"
       android:usesCleartextTraffic="true"
       tools:targetApi="31">
           android:exported="false" />
           android:exported="true">
           <intent-filter>
               <category
```

E. Data Postman

Pada postman kita perlu mengganti url yg dituju berdasarkan ip addressnya(akan terus berganti sesuai koneksinya).

```
Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON > 

1 {
2 | "status": true,
3 | "message": "Layanan added successfully"
4 }
```



