## LAPORAN 5 PRAKTIKUM APLIKASI MOBILE



# Dosen Pengampu:

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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;
import android.view.ViewGroup;
import android.widget.TextView;
import android.widget.TextView;
import androidx.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;
```

```
itemClickListener) {
        onItemClicked = itemClickListener;
   public AdapterPelanggan(Context context, List<ModelPelanggan>
        this.list = list;
    public RecyclerView.ViewHolder onCreateViewHolder(ViewGroup
parent, int viewType) {
LayoutInflater.from(parent.getContext()).inflate(R.layout.item pe
        ModelPelanggan item = list.get(position);
        holder.tvNama.setText(item.getNama());
        holder.tvHp.setText(item.getHp());
        notifyItemRangeRemoved(0, size);
    public class ViewHolder extends RecyclerView.ViewHolder {
        public ViewHolder(View itemView) {
            super(itemView);
itemView.findViewById(R.id.tvItemPelNama);
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.

```
import android.app.ProgressDialog;
import android.view.animation.AlphaAnimation;
import android.widget.LinearLayout;
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 androidx.recyclerview.widget.LinearLayoutManager;
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.JSONException;
import org.json.JSONObject;
import java.util.ArrayList;
oublic class MainActivity extends AppCompatActivity {
    RequestQueue requestQueue;
   AdapterPelanggan adapterPelanggan;
   ArrayList<ModelPelanggan> list;
   ProgressDialog progressDialog;
    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) \rightarrow {
            Insets systemBars =
insets.getInsets(WindowInsetsCompat.Type.systemBars());
            v.setPadding(systemBars.left, systemBars.top,
systemBars.right, systemBars.bottom);
        setView();
        requestQueue = Volley.newRequestQueue(this)
                Intent intent = new Intent(MainActivity.this,
AddActivity.class);
                startActivity(intent);
        btnAdd = (TextView) findViewById(R.id.btnAdd) ;
        rvPelanggan = findViewById (R.id.rvPelanggan) ;
        list = new ArrayList<>();
        LinearLayoutManager llm = new LinearLayoutManager(this) ;
        llm.setOrientation(LinearLayoutManager.VERTICAL);
        rvPelanggan.setHasFixedSize(true);
    private View.OnClickListener onClickListener = new
View.OnClickListener() {
            v.startAnimation(btnAnimasi);
(RecyclerView.ViewHolder) v.getTag();
            int position = viewHolder.getAdapterPosition();
            ModelPelanggan np = list.get(position);
            a.putExtra("param", "edit");
            startActivity(a);
    private void showMsg() {
```

```
progressDialog.setMessage("Loading Data..");
        progressDialog.setCancelable(false);
        JsonObjectRequest jsonObjectRequest = new JsonObjectRequest(
                Request.Method. GET, base url, null, new
Response.Listener<JSONObject>() {
            public void onResponse(JSONObject jsonObject) {
                    String status = jsonObject.getString("status");
                    String message = jsonObject.getString("message");
jsonObject.getJSONArray("data");
                            JSONObject jsonObject1 =
jsonArray.getJSONObject(a);
                            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 = new
AdapterPelanggan (MainActivity.this, list);
                        rvPelanggan.setAdapter(adapterPelanggan);
                        Toast.makeText (MainActivity.this,
""+jsonArray.toString(), Toast.LENGTH SHORT).show();
                        Toast.makeText(MainActivity.this, ""+message,
Toast.LENGTH SHORT).show();
                } catch (JSONException e) {
                    throw new RuntimeException(e);
        }, new Response.ErrorListener(){
            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="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <androidx.recyclerview.widget.RecyclerView
        android:layout_width="match_parent"
        android:layout_width="match_parent"
        android:layout_height="10dp"
        android:layout_weight= "1"
        android:padding="l6dp"
        tools:ignore="MissingConstraints">

    </androidx.recyclerview.widget.RecyclerView>

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

#### D. Manifest

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

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

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.ConnectToJson"</pre>
```