LAPORAN 5 PRAKTIKUM APLIKASI MOBILE



Dosen Pengampu:

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A. Model

Java

"ModelPelanggan" berisi fungsi getter dan setter untuk mengubah dan mengambil nilai dari model.

```
public class ModelPelanggan {
   String id, nama, email, hp;
   public void setNama(String nama) {
   public String getEmail() {
```

B. Adapter

Kelas "AdapterPelanggan" digunakan untuk menampung data dari pelanggan yang nantinya akan ditampilkan menggunakan "RecyclerView" dan data akan tampil dalam bentuk list.

```
import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
```

```
import androidx.recyclerview.widget.RecyclerView;
import com.spin.laundry.R;
import model.ModelPelanggan;
public class AdapterPelanggan extends
RecyclerView.Adapter<AdapterPelanggan.ViewHolder> {
            AdapterPelanggan.class.getSimpleName();
   private List<ModelPelanggan>list;
   private View.OnClickListener onItemClicked;
                                               itemClickListener) {
        onItemClicked = itemClickListener;
   public AdapterPelanggan(Context context, List<ModelPelanggan>
        this.list = list;
    public ViewHolder onCreateViewHolder (ViewGroup parent, int
viewType) {
       View view =
LayoutInflater.from(parent.getContext()).inflate(R.layout.activity ite
                        parent, false);
    public void onBindViewHolder(ViewHolder holder, int position) {
        ModelPelanggan item = list.get(position);
        holder.tvNama.setText(item.getNama());
        holder.tvHp.setText(item.getHp());
        return list.size();
    public void clear() {
        int size = this.list.size();
            tvNama = (TextView)
itemView.findViewById(R.id.tvItemPelNama);
            tvHp = (TextView) itemView.findViewById(R.id.tvItemPelHp);
            itemView.setTag(this);
            itemView.setOnClickListener(onItemClicked);
```

```
}
}
```

C. MainActivity

Pada class "MainActivity" kita perlu mendeklarasikan url yang dituju menggunakan ip address, RecycleView, adapter, model, dan lainnya yang nantinya akan ditampilkan pada layout xml-nya.

```
import android.app.ProgressDialog;
import android.view.View;
import android.view.animation.AlphaAnimation;
import android.widget.LinearLayout;
import android.widget.Toast;
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.VolleyError;
import com.android.volley.toolbox.JsonObjectRequest;
import com.android.volley.toolbox.Volley;
import org.json.JSONException;
    RequestQueue requestQueue;
   AdapterPelanggan adapterPelanggan;
   ArrayList<ModelPelanggan> list;
   ProgressDialog progressDialog;
    AlphaAnimation btnAnimasi = new AlphaAnimation(1F, 0,5F);
    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,
            return insets;
        setView();
        requestQueue = Volley.newRequestQueue(this)
        getData();
AddActivity.class);
                startActivity(intent);
        btnAdd = (TextView) findViewById(R.id.btnAdd) ;
        LinearLayoutManager llm = new LinearLayoutManager(this) ;
        llm.setOrientation(LinearLayoutManager.VERTICAL);
        rvPelanggan.setLayoutManager(llm);
   private View.OnClickListener onClickListener = new
            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);
   private void showMsq() {
        progressDialog.setMessage("Loading Data..");
```

```
progressDialog.setCancelable(false);
        progressDialog.show();
    private void getData() {
        JsonObjectRequest jsonObjectRequest = new JsonObjectRequest(
                Request.Method.GET, base_url, null, new
                    String status = jsonObject.getString("status");
                    String message = jsonObject.getString("message");
                    if (status.equalsIgnoreCase("true")) {
jsonObject.getJSONArray("data");
                            JSONObject jsonObject1 =
                            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);
                        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="16dp"
        tools:ignore="MissingConstraints">

    </androidx.recyclerview.widget.RecyclerView>

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

D. Manifest

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">
    <uses-permission
android:name="android.permission.READ_EXTERNAL_STORAGE" />
    <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.Laundry"
        tools:targetApi="31">
        <activity</pre>
```

```
android:exported="false" />
           android:exported="false" />
           android:exported="false" />
           android:exported="false" />
           android:exported="false" />
           android:exported="true">
           <intent-filter>
                <action android:name="android.intent.action.MAIN" />
   </application>
</manifest>
```