

# Aplikasi Mobile



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# DataBase SQLite

## A. Model

- Model Pelanggan

```
package humayrafahreri.laundryapps.model;
public class ModelPelanggan { 21 usages new *
    String id, nama, email, hp; 2 usages

    public String getId() { new *
        return id;
    }

    public void setId(String id) { new *
        this.id = id;
    }

    public String getName() { 5 usages new *
        return nama;
    }

    public void setName(String nama) { 3 usages new *
        this.nama = nama;
    }

    public String getEmail() { 3 usages new *
        return email;
    }

    public void setEmail(String email) { 3 usages new *
        this.email = email;
    }

    public String getHp() { 4 usages new *
        return hp;
    }

    public void setHp(String hp) { 3 usages new *
        this.hp = hp;
    }
}
```

- Model Layanan

```
package humayrafahreri.laundryapps.model;
public class ModelLayanan { 20 usages new *
    String id, namaLayanan, harga; 2 usages

    public String getId() { new *
        return id;
    }

    public void setId(String id) { new *
        this.id = id;
    }

    public String getNameLayanan() { 5 usages new *
        return namaLayanan;
    }

    public void setNameLayanan(String namaLayanan) { 3 usages new *
        this.namaLayanan = namaLayanan;
    }

    public String getHarga(){return harga;} 4 usages new *

    public void setHarga(String harga) { 3 usages new *
        this.harga = harga;
    }
}
```

## B. SQLiteHelper

```
C. package humayrafahreri.laundryapps.database;

import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;

import java.util.ArrayList;
import java.util.List;

import humayrafahreri.laundryapps.model.ModelLayanan;
import humayrafahreri.laundryapps.model.ModelPelanggan;

public class SQLiteHelper extends SQLiteOpenHelper {
    public static String DATABASE_NAME = "my_laundry.db";
    public static final int DATABASE_VERSION = 1;

    // Tabel Pelanggan
    public static final String TABLE_PELANGGAN = "pelanggan";
    public static final String KEY_PELANGGAN_ID = "pelanggan_id";
    public static final String KEY_PELANGGAN_NAMA = "nama";
    public static final String KEY_PELANGGAN_EMAIL = "email";
    public static final String KEY_PELANGGAN_HP = "hp";

    // Tabel Layanan
    public static final String TABLE_LAYANAN = "layanan";
    public static final String KEY_LAYANAN_ID = "layanan_id"; //
    // Tambahkan ID layanan
    public static final String KEY_LAYANAN_NAMA = "nama_layanan";
    public static final String KEY_LAYANAN_HARGA = "harga";

    // Query untuk membuat tabel pelanggan
    private static final String CREATE_TABLE_PELANGGAN = "CREATE
TABLE " +
        TABLE_PELANGGAN + "("
        + KEY_PELANGGAN_ID + " TEXT PRIMARY KEY, "
        + KEY_PELANGGAN_NAMA + " TEXT, "
        + KEY_PELANGGAN_EMAIL + " TEXT, "
        + KEY_PELANGGAN_HP + " TEXT )";

    // Query untuk membuat tabel layanan
    private static final String CREATE_TABLE_LAYANAN = "CREATE TABLE
IF NOT EXISTS "
        + TABLE_LAYANAN + "("
        + "layanan_id TEXT PRIMARY KEY, "
        + KEY_LAYANAN_NAMA + " TEXT, "
        + KEY_LAYANAN_HARGA + " TEXT)";

    public SQLiteHelper(Context context) {
        super(context, DATABASE_NAME, null, DATABASE_VERSION);
    }

    @Override
    public void onCreate(SQLiteDatabase db) {
        db.execSQL(CREATE_TABLE_PELANGGAN);
        db.execSQL(CREATE_TABLE_LAYANAN); // Buat tabel layanan
    }
}
```

```

@Override
public void onUpgrade(SQLiteDatabase db, int oldVersion, int
newVersion) {
    db.execSQL("DROP TABLE IF EXISTS " + TABLE_PELANGGAN);
    db.execSQL("DROP TABLE IF EXISTS " + TABLE_LAYANAN); // Hapus
tabel layanan jika ada pembaruan
    onCreate(db);
}

// Method untuk menambahkan pelanggan
public boolean insertPelanggan(ModelPelanggan mp) {
    SQLiteDatabase database = this.getReadableDatabase();
    ContentValues contentValues = new ContentValues();
    contentValues.put(KEY_PELANGGAN_ID, mp.getId());
    contentValues.put(KEY_PELANGGAN_NAMA, mp.getNama());
    contentValues.put(KEY_PELANGGAN_EMAIL, mp.getEmail());
    contentValues.put(KEY_PELANGGAN_HP, mp.getHp());
    long id = database.insert(TABLE_PELANGGAN, null,
contentValues);
    database.close();
    return id != -1;
}

// Method untuk menambahkan layanan
public boolean insertLayanan(ModelLayanan layanan) {
    SQLiteDatabase database = this.getWritableDatabase();
    ContentValues contentValues = new ContentValues();
    contentValues.put(KEY_LAYANAN_ID, layanan.getId()); //
Pastikan ada id layanan
    contentValues.put(KEY_LAYANAN_NAMA,
layanan.getNamaLayanan());
    contentValues.put(KEY_LAYANAN_HARGA, layanan.getHarga());
    long id = database.insert(TABLE_LAYANAN, null,
contentValues);
    database.close();
    return id != -1;
}

// Method untuk mengambil data pelanggan
public List<ModelPelanggan> getPelanggan() {
    List<ModelPelanggan> pel = new ArrayList<>();
    String query = "SELECT * FROM " + TABLE_PELANGGAN;
    SQLiteDatabase db = this.getWritableDatabase();
    Cursor cursor = db.rawQuery(query, null);
    if (cursor.moveToFirst()) {
        do {
            ModelPelanggan k = new ModelPelanggan();
            k.setId(cursor.getString(0));
            k.setNama(cursor.getString(1));
            k.setEmail(cursor.getString(2));
            k.setHp(cursor.getString(3));
            pel.add(k);
        } while (cursor.moveToNext());
    }
    cursor.close();
    return pel;
}

// Method untuk mengambil data layanan
public List<ModelLayanan> getLayanan() {
    List<ModelLayanan> layananList = new ArrayList<>();

```

```

String query = "SELECT * FROM " + TABLE_LAYANAN;
SQLiteDatabase db = this.getWritableDatabase();
Cursor cursor = db.rawQuery(query, null);
if (cursor.moveToFirst()) {
    do{
        ModelLayanan l = new ModelLayanan();
        l.setId(cursor.getString(0));
        l.setNamaLayanan(cursor.getString(1));
        l.setHarga(cursor.getString(2));
        layananList.add(l);
    }while (cursor.moveToNext());
}
cursor.close();
return layananList;
}
}

```

#### D. Adapter

- Adapter Pelanggan

```

package humayrafahreri.laundryapps.adapter;

import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;

import androidx.recyclerview.widget.RecyclerView;

import java.util.List;

import humayrafahreri.laundryapps.R;
import humayrafahreri.laundryapps.model.ModelPelanggan;

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 onItemClick;
    public void setOnItemClickListener(View.OnClickListener
        onItemClick) {
        onItemClick = onItemClick;
    }
    public AdapterPelanggan(Context context,
        List<ModelPelanggan> list) {
        this.context = context;
        this.list = list;
    }
    @Override
    public ViewHolder onCreateViewHolder(ViewGroup parent, int
        viewType) {
        View view =
            LayoutInflater.from(parent.getContext()).inflate(R.layout.item_
                pelanggan,

```

```

        parent, false);
        return new ViewHolder(view);
    }
    @Override
    public void onBindViewHolder(ViewHolder holder, int
position) {
        ModelPelanggan item = list.get(position);
        holder.tvNama.setText(item.getNama());
        holder.tvHp.setText(item.getHp());
    }
    @Override
    public int getItemCount() {
        return list.size();
    }
    public void clear() {
        int size = this.list.size();
        this.list.clear();
        notifyItemRangeRemoved(0, size);
    }
    public class ViewHolder extends RecyclerView.ViewHolder {
        TextView tvNama, tvHp;
        public ViewHolder(View itemView) {
            super(itemView);
            tvNama = (TextView)
itemView.findViewById(R.id.tvItemPelNama);
            tvHp = (TextView)
itemView.findViewById(R.id.tvItemPelHp);
            itemView.setTag(this);
            itemView.setOnClickListener(onItemClicked);
        }
    }
}

```

- Adapter Layanan

```

package humayrafahreri.laundryapps.adapter;

import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;

import androidx.recyclerview.widget.RecyclerView;

import java.util.List;

import humayrafahreri.laundryapps.R;
import humayrafahreri.laundryapps.model.ModelLayanan;

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

```

```

        public void setOnItemClickListener(View.OnClickListener
itemClickListener) {
            onItemClick = itemClickListener;
        }

        public AdapterLayanan(Context context, List<ModelLayanan>
list) {
            this.context = context;
            this.list = list;
        }

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

        @Override
        public void onBindViewHolder(ViewHolder holder, int position)
{
            ModelLayanan item = list.get(position);
            holder.tvNamaLayanan.setText(item.getNamaLayanan());
            holder.tvHarga.setText(item.getHarga());
        }

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

        public void clear() {
            int size = this.list.size();
            this.list.clear();
            notifyItemRangeRemoved(0, size);
        }

        public class ViewHolder extends RecyclerView.ViewHolder {
            TextView tvNamaLayanan, tvHarga;

            public ViewHolder(View itemView) {
                super(itemView);
                tvNamaLayanan =
itemView.findViewById(R.id.tvNamaLayanan);
                tvHarga = itemView.findViewById(R.id.tvHarga);
                itemView.setTag(this);
                itemView.setOnClickListener(onItemClick);
            }
        }
    }
}

```

## E. Pelanggan

- PelangganActivity
  - Java

```
- package humayrafahreri.laundryapps.Pelanggan;

import android.annotation.SuppressLint;
import android.app.ProgressDialog;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.view.animation.AlphaAnimation;
import android.widget.Button;
import android.widget.Toast;

import androidx.activity.EdgeToEdge;
import androidx.activity.result.contract.ActivityResultContracts;
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 androidx.recyclerview.widget.RecyclerView;

import java.util.ArrayList;
import java.util.List;

import humayrafahreri.laundryapps.R;
import humayrafahreri.laundryapps.adapter.AdapterPelanggan;
import humayrafahreri.laundryapps.database.SQLiteHelper;
import humayrafahreri.laundryapps.model.ModelPelanggan;

public class PelangganActivity extends AppCompatActivity {
    SQLiteHelper db;
    Button btnPelAdd;
    RecyclerView rvPelanggan;
    AdapterPelanggan adapterPelanggan;
    ArrayList<ModelPelanggan> list;
    ProgressDialog progressDialog;
    AlphaAnimation btnAnimasi = new AlphaAnimation(1F, 0.5F);
    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_pelanggan);

        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;
            });
    }
```



```

        setView();
        eventHandling();
        getData();
    }
    private View.OnClickListener onClickListener = new
        View.OnClickListener() {
            @Override
            public void onClick(View v) {
                v.startAnimation(btnAnimasi);
                RecyclerView.ViewHolder viewHolder =
(RecyclerView.ViewHolder)
                    v.getTag();
                int position =
viewHolder.getAdapterPosition();
                ModelPelanggan mp = list.get(position);
                Toast.makeText(PelangganActivity.this,
"" +mp.getNama(),
                    Toast.LENGTH_SHORT).show();
            }
        };
    private void getData() {
        list.clear();
        showMsg();
        progressDialog.dismiss();
        try {
            List<ModelPelanggan> p = db.getPelanggan();
            if (p.size() > 0){
                for (ModelPelanggan pel : p){
                    ModelPelanggan mp = new
ModelPelanggan();
                    mp.setId(pel.getId());
                    mp.setNama(pel.getNama());
                    mp.setEmail(pel.getEmail());
                    mp.setHp(pel.getHp());
                    list.add(mp);
                }
                adapterPelanggan = new
AdapterPelanggan(this, list);
                adapterPelanggan.notifyDataSetChanged();
                rvPelanggan.setAdapter(adapterPelanggan);

                adapterPelanggan.setOnItemClickListener(onClickListener);
            }else{
                Toast.makeText(this, "Data tidak ditemukan",
                    Toast.LENGTH_SHORT).show();
            }
        } catch (Exception e){
        }
    }
    private void eventHandling() {
        btnPelAdd.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View v) {
                startActivity(new
Intent(PelangganActivity.this,
                    PelangganAddActivity.class));
            }
        });
    }
    private void setView() {

```

```

        db = new SQLiteHelper(this);
        progressDialog = new ProgressDialog(this);
        btnPelAdd = (Button) findViewById(R.id.btnPelAdd);
        rvPelanggan = (RecyclerView)
findViewById(R.id.rvPelanggan);
        list = new ArrayList<>();
        LinearLayoutManager llm = new
LinearLayoutManager(this);
        llm.setOrientation(LinearLayoutManager.VERTICAL);
        rvPelanggan.setHasFixedSize(true);
        rvPelanggan.setLayoutManager(llm);
    }
    private void showMsg() {
        progressDialog.setTitle("Informasi");
        progressDialog.setMessage("Loading Data..");
        progressDialog.setCancelable(false);
        progressDialog.show();
    }
}

```

## - 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:background="@color/secondaryColor"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".Pelanggan.PelangganActivity">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="4dp"
        android:orientation="vertical"
        android:padding="@dimen/lg"
        app:layout_constraintTop_toTopOf="parent"
        tools:layout_editor_absoluteX="0dp">

        <Button
            android:id="@+id/btnPelAdd"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:background="@color/primaryColor"
            android:padding="@dimen/sm"
            android:text="TAMBAH PELANGGAN"
            android:textColor="#FFFFFF"
            android:layout_marginBottom="16dp"
            android:textSize="@dimen/xlg"
            android:textStyle="bold" />

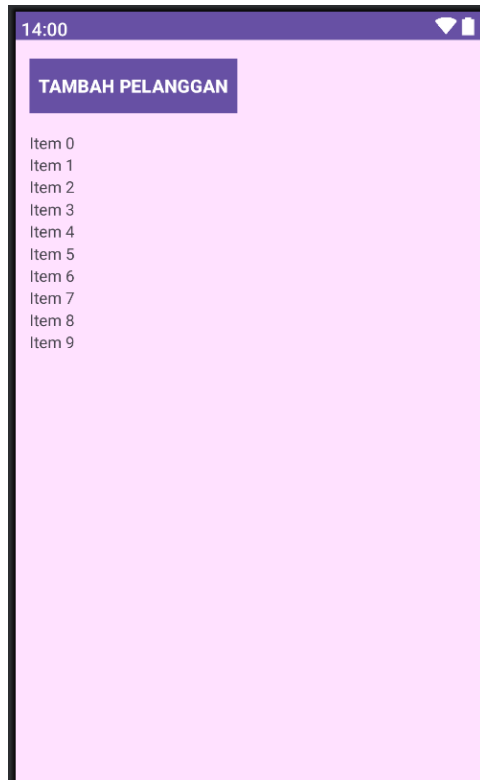
        <androidx.recyclerview.widget.RecyclerView
            android:id="@+id/rvPelanggan"
            android:layout_width="match_parent"
            android:layout_height="match_parent" />
    </LinearLayout>
  </ConstraintLayout>

```

```
</LinearLayout>

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

## - Tampilan



## • PelangganAddActivity

### - Java

```
- package humayrafahreri.laundryapps.Pelanggan;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
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 humayrafahreri.laundryapps.R;
import humayrafahreri.laundryapps.database.SQLiteHelper;
import humayrafahreri.laundryapps.model.ModelPelanggan;
```



```

        Toast.makeText(PelangganAddActivity.this, "Data Gagal
        Disimpan", Toast.LENGTH_SHORT).show();
    }

    });

    btnBatal.setOnClickListener(new
    View.OnClickListener() {
        @Override
        public void onClick(View view) {
            finish();
        }
    });
}

}
}

```

## - 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:background="@color/white"
android:orientation="vertical"
android:padding="@dimen/lg">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="@dimen/lg"
        android:orientation="vertical">

        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginBottom="@dimen/lg"
            android:text="PELANGGAN"
            android:textColor="@color/primaryColor"
            android:textSize="23sp"
            android:textStyle="bold" />

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

            <TextView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"

```

```

        android:text="Nama"
        android:textColor="@android:color/black" />

        <EditText
            android:id="@+id/edPelAddNama"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="@dimen/sm"
            android:background="@drawable/border_radius"
            android:drawableLeft="@drawable/ic_username"
            android:drawablePadding="@dimen/sm"
            android:padding="@dimen/md" />

    </LinearLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="@dimen/md"
        android:orientation="vertical">

        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Email"
            android:textColor="@android:color/black" />

        <EditText
            android:id="@+id/edPelAddEmail"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="8dp"
            android:background="@drawable/border_radius"
            android:drawableLeft="@drawable/ic_email"
            android:inputType="textEmailAddress"
            android:padding="@dimen/md" />

    </LinearLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="@dimen/md"
        android:orientation="vertical">

        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="HP"
            android:textColor="@android:color/black" />

        <EditText
            android:id="@+id/edPelAddHp"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="@dimen/sm"
            android:background="@drawable/border_radius"
            android:drawableLeft="@drawable/ic_phone"
            android:drawablePadding="@dimen/sm"
            android:inputType="number"
            android:padding="@dimen/md" />

    </LinearLayout>

```

```

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="@dimen/xlg"
    android:orientation="horizontal"
    android:weightSum="2">

    <Button
        android:id="@+id/btnPelAddSimpan"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginRight="@dimen/xs"
        android:layout_weight="1"
        android:background="@color/primaryColor"
        android:text="Simpan" />

    <Button
        android:id="@+id/btnPelAddBatal"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="@dimen/xs"
        android:layout_weight="1"
        android:background="@color/black"
        android:text="Batal"
        android:textColor="@color/white" />

</LinearLayout>
</LinearLayout>
</LinearLayout>

```

- Tampilan

The screenshot shows a mobile application interface with a purple header bar displaying the time 14:00 and status icons. The main content area is white and titled "PELANGGAN" in bold purple text. Below the title, there are three input fields, each with a label and an icon: "Nama" with a person icon, "Email" with an envelope icon, and "HP" with a mobile phone icon. At the bottom of the form, there are two purple buttons labeled "Simpan" and "Batal".

- Item\_Pelanggan

- XML

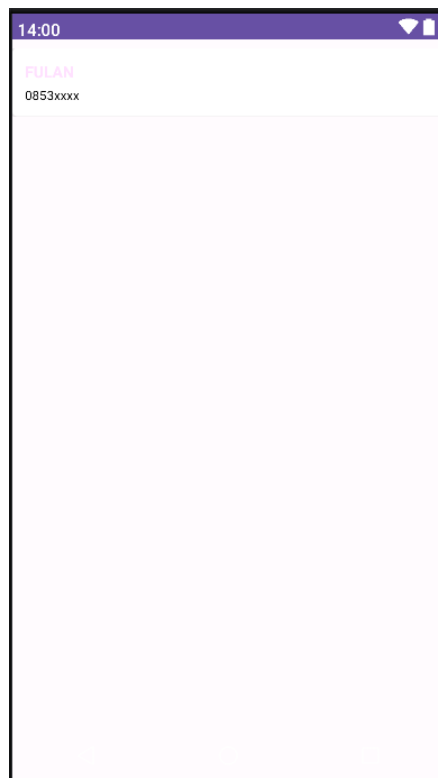
```
- <?xml version="1.0" encoding="utf-8"?>
<LinearLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  android:orientation="vertical"
  android:layout_marginTop="@dimen/sm"
  android:layout_width="match_parent"
  android:layout_height="wrap_content">
  <androidx.cardview.widget.CardView
    android:id="@+id/cvItemPel"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    app:cardCornerRadius="@dimen/xs"
  >
    <LinearLayout
      android:layout_width="match_parent"
      android:layout_height="wrap_content"
      android:padding="@dimen/lg"
      android:orientation="vertical">
      <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:weightSum="2"
        android:orientation="horizontal">
        <LinearLayout
          android:layout_weight="1"
          android:layout_width="match_parent"
          android:layout_height="wrap_content"
          android:orientation="vertical">
          <TextView
            android:id="@+id/tvItemPelNama"
            android:textSize="15sp"
            android:textStyle="bold"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="FULAN"

            android:textColor="@color/secondaryColor"/>

          <TextView
            android:id="@+id/tvItemPelHp"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="@dimen/xs"
            android:text="0853xxxx"
            android:textColor="@color/black"
            android:textSize="12sp" />
        </LinearLayout>
      </LinearLayout>
    </LinearLayout>
  </androidx.cardview.widget.CardView>
</LinearLayout>
```



- Tampilan



F. Layanan

- LayananActivity
  - Java

```
- package humayrafahreri.laundryapps.Layanan;

import android.annotation.SuppressLint;
import android.app.ProgressDialog;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.view.animation.AlphaAnimation;
import android.widget.Button;
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 androidx.recyclerview.widget.RecyclerView;

import java.util.ArrayList;
import java.util.List;

import humayrafahreri.laundryapps.R;
import humayrafahreri.laundryapps.adapter.AdapterLayanan;
import humayrafahreri.laundryapps.database.SQLiteHelper;
```

```

import humayrafahreri.laundryapps.model.ModelLayanan;

public class LayananActivity extends AppCompatActivity {
    SQLiteHelper db;
    Button btnLayAdd;
    RecyclerView rvLayanan;
    AdapterLayanan adapterLayanan;
    ArrayList<ModelLayanan> list;
    ProgressDialog progressDialog;
    AlphaAnimation btnAnimasi = new AlphaAnimation(1F,
0.5F);

    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_layanan);

        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;
            });
        setContentView();
        eventHandling();
        getData();
    }

    private View.OnClickListener onClickListener = new
View.OnClickListener() {
        @Override
        public void onClick(View v) {
            v.startAnimation(btnAnimasi);
            RecyclerView.ViewHolder viewHolder =
(RecyclerView.ViewHolder) v.getTag();
            int position =
viewHolder.getAdapterPosition();
            ModelLayanan ml = list.get(position);
            Toast.makeText(LayananActivity.this, "Nama
Layanan: " + ml.getNamaLayanan(),
                Toast.LENGTH_SHORT).show();
        }
    };

    private void getData() {
        list.clear();
        showMsg();
        progressDialog.dismiss();
        try {
            List<ModelLayanan> layananList =
db.getLayanan();
            if (layananList.size() > 0) {
                for (ModelLayanan layanan : layananList)
                {
                    ModelLayanan ml = new ModelLayanan();
                    ml.setId(layanan.getId());

```

```

ml.setNamaLayanan(layanan.getNamaLayanan());
ml.setHarga(layanan.getHarga());
list.add(ml);
}
adapterLayanan = new AdapterLayanan(this,
list);
adapterLayanan.notifyDataSetChanged();
rvLayanan.setAdapter(adapterLayanan);

adapterLayanan.setOnItemClickListener(onClickListener);
} else {
    Toast.makeText(this, "Data layanan tidak
ditemukan", Toast.LENGTH_SHORT).show();
}
} catch (Exception e) {
    e.printStackTrace();
}
}

private void eventHandling() {
    btnLayAdd.setOnClickListener(new
View.OnClickListener() {
        @Override
        public void onClick(View v) {
            startActivity(new
Intent(LayananActivity.this, LayananAddActivity.class));
        }
    });
}

private void setView() {
    db = new SQLiteHelper(this);
    progressDialog = new ProgressDialog(this);
    btnLayAdd = (Button)
findViewById(R.id.btnLayAdd);
    rvLayanan = (RecyclerView)
findViewById(R.id.rvlayanan);
    list = new ArrayList<>();
    LinearLayoutManager llm = new
LinearLayoutManager(this);
    llm.setOrientation(LinearLayoutManager.VERTICAL);
    rvLayanan.setHasFixedSize(true);
    rvLayanan.setLayoutManager(llm);
}

private void showMsg() {
    progressDialog.setTitle("Informasi");
    progressDialog.setMessage("Loading Data..");
    progressDialog.setCancelable(false);
    progressDialog.show();
}
}

```

## - XML

```
<?xml version="1.0" encoding="utf-8"?>
<?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:background="@color/secondaryColor"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".LoginActivity">

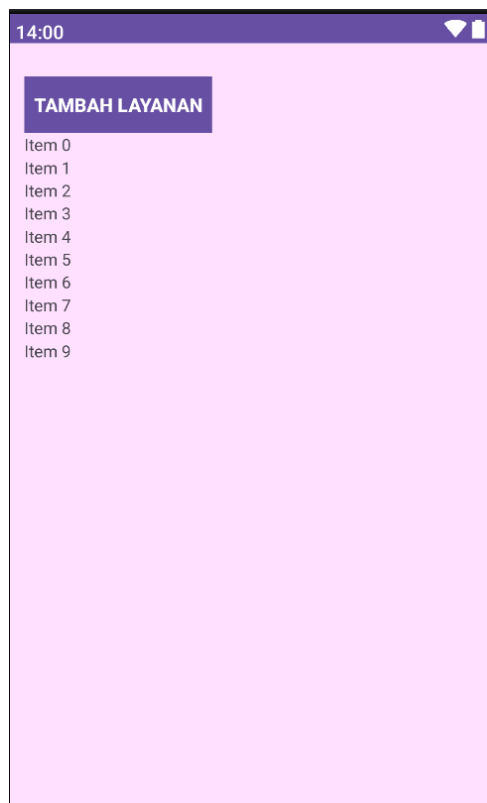
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:padding="@dimen/lg"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.497">

        <Button
            android:id="@+id/btnLayAdd"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:background="@color/primaryColor"
            android:padding="@dimen/sm"
            android:text="TAMBAH LAYANAN"
            android:layout_marginTop="16dp"
            android:textColor="#FFFFFF"
            android:textStyle="bold"
            android:textSize="16sp"/>

            <androidx.recyclerview.widget.RecyclerView
                android:id="@+id/rvlayanana"
                android:layout_width="match_parent"
                android:layout_height="match_parent" />

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

- Tampilan



- LayananAddActivity

- Java

```
- package humayrafahreri.laundryapps.Layanan;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
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 java.util.UUID;

import humayrafahreri.laundryapps.Pelanggan.PelangganActivity;
import humayrafahreri.laundryapps.R;
import humayrafahreri.laundryapps.database.SQLiteHelper;
import humayrafahreri.laundryapps.model.ModelLayanan;
import humayrafahreri.laundryapps.model.ModelPelanggan;

public class LayananAddActivity extends AppCompatActivity
{
```



```

        if (cek) {

            Toast.makeText(humayrafahreri.laundryapps.Layanan.LayananAddActivity.this, "Data berhasil disimpan",
                Toast.LENGTH_SHORT).show();
            startActivity(new
                Intent(humayrafahreri.laundryapps.Layanan.LayananAddActivity.this, LayananActivity.class));
            finish();
        } else {

            Toast.makeText(humayrafahreri.laundryapps.Layanan.LayananAddActivity.this, "Data gagal disimpan",
                Toast.LENGTH_SHORT).show();
        }
    }
});

    btnBatal.setOnClickListener(new
        View.OnClickListener() {
            @Override
            public void onClick(View view) {
                finish();
            }
        });
}
}

```

## - XML

```

- <?xml version="1.0" encoding="utf-8"?>
  <?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:background="@color/white"
        android:orientation="vertical"
        android:padding="@dimen/lg">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="@dimen/lg"
        android:orientation="vertical">

```

```

<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom="@dimen/lg"
    android:text="Tambah Layanan"
    android:textColor="@color/primaryColor"
    android:textSize="23sp"
    android:textStyle="bold" />

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

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Jenis"
        android:textColor="@android:color/black"
    />

    <EditText
        android:id="@+id/edLayAddLayanan"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="@dimen/sm"

        android:background="@drawable/border_radius"
        android:drawablePadding="@dimen/sm"
        android:padding="@dimen/md" />

</LinearLayout>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="@dimen/md"
    android:orientation="vertical">

    <TextView

```



```
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Harga"
        android:textColor="@android:color/black"

/>
```

```
        <EditText
            android:id="@+id/edLayAddHarga"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="8dp"

            android:background="@drawable/border_radius"
            android:inputType="text"
            android:padding="@dimen/md" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="@dimen/md"
    android:orientation="vertical">
```

```
</LinearLayout>
```

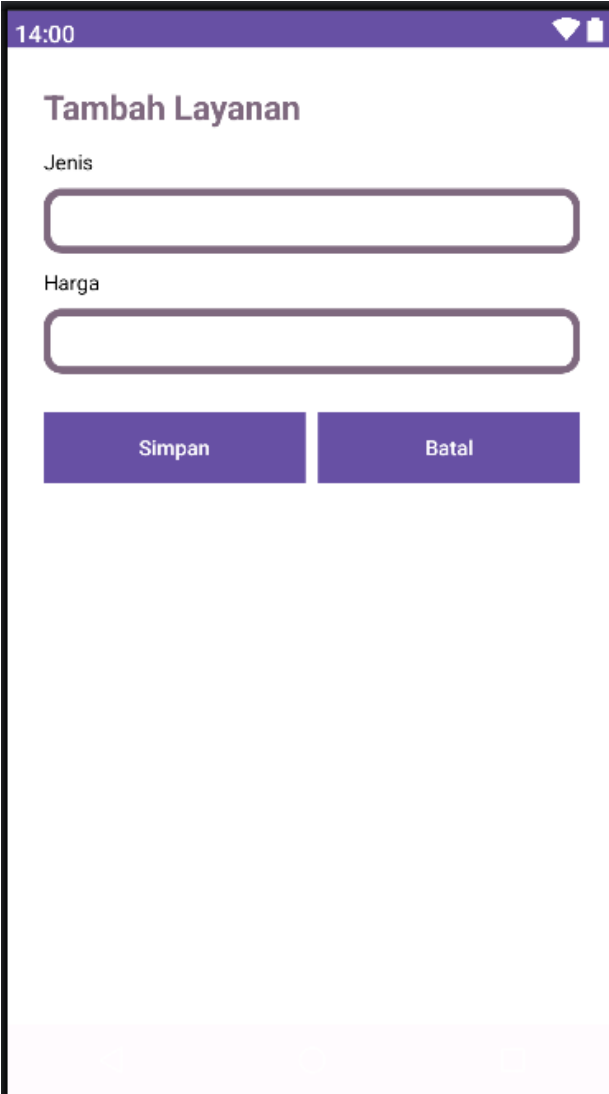
```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="@dimen/xlg"
    android:orientation="horizontal"
    android:weightSum="2">
```

```
    <Button
        android:id="@+id/btnLayAddSimpan"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginRight="@dimen/xs"
        android:layout_weight="1"
        android:background="@color/primaryColor"
        android:text="Simpan" />
```

```
<Button
    android:id="@+id/btnLayAddBatal"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="@dimen/xs"
    android:layout_weight="1"
    android:background="@color/black"
    android:text="Batal"
    android:textColor="@color/white" />

</LinearLayout>
</LinearLayout>
</LinearLayout>
```

- Tampilan



14:00

### Tambah Layanan

Jenis

Harga

Simpan Batal

- Item\_layanan

- 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"
    android:orientation="vertical"
    android:layout_marginTop="@dimen/sm"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <androidx.cardview.widget.CardView
      android:id="@+id/cvItemPel"
      android:layout_width="match_parent"
      android:layout_height="wrap_content"
      app:cardCornerRadius="@dimen/xs"
    >
      <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:padding="@dimen/lg"
        android:orientation="vertical">
        <LinearLayout
          android:layout_width="match_parent"
          android:layout_height="wrap_content"
          android:weightSum="2"
          android:orientation="horizontal">
          <LinearLayout
            android:layout_weight="1"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical">
            <TextView
              android:id="@+id/tvNamaLayanan"
              android:textSize="15sp"
              android:textStyle="bold"

            android:layout_width="wrap_content"

            android:layout_height="wrap_content"
              android:text="FULAN"

            android:textColor="@color/secondaryColor"/>

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

            android:layout_width="wrap_content"

            android:layout_height="wrap_content"

            android:layout_marginTop="@dimen/xs"
              android:text="0853xxxx"
              android:textColor="@color/black"
              android:textSize="12sp" />
          </LinearLayout>
        </LinearLayout>
      </LinearLayout>
    </LinearLayout>
```

```
</androidx.cardview.widget.CardView>  
</LinearLayout>
```

- Tampilan



## G. Manifest

```
H. <uses-permission  
    android:name="android.permission.READ_EXTERNAL_STORAGE" />
```

File AndroidManifest .xml memberikan izin kepada aplikasi Android untuk membaca data dari penyimpanan eksternal perangkat (misalnya, kartu SD atau penyimpanan yang dapat diakses pengguna)