

Aplikasi Mobile



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PelangganActivity dan LayananActivity

A. Pelanggan Activity

- PelangganActivity

```
• 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);
            Intent intent = new
Intent(humayrafahreri.laundryapps.Pelanggan.PelangganActivity.t
his, PelangganEditActivity.class);
                intent.putExtra("ID", mp.getId());
                intent.putExtra("NAMA",
mp.getNama());
                intent.putExtra("EMAIL",
mp.getEmail());
                intent.putExtra("HP", mp.getHp());
                startActivity(intent);
                Toast.makeText(PelangganActivity.this, ""
+mp.getNama(),
                                Toast.LENGTH_SHORT).show();
            }
        };
    private void getData() {
        list.clear();
        showMsg();
        try {
            List<ModelPelanggan> p = db.getPelanggan();
            if (p.size() > 0){
                list.addAll(p); // Simplified adding all
data
                adapterPelanggan = new
AdapterPelanggan(this, list);
                rvPelanggan.setAdapter(adapterPelanggan);

                adapterPelanggan.setOnItemClickListener(onClickListener); //
Handle click event
                adapterPelanggan.notifyDataSetChanged();
            }else{
                Toast.makeText(this, "Data tidak ditemukan",
                    Toast.LENGTH_SHORT).show();
            }
        }catch (Exception e){
            e.printStackTrace();
        }finally{
            progressDialog.dismiss();
        }
    }
    private void eventHandling() {
        btnPelAdd.setOnClickListener(v -> {
            v.startAnimation(btnAnimasi);
            startActivity(new Intent(PelangganActivity.this,

```

```

PelangganAddActivity.class));
    });
}
private void initView() {
    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();
}
@Override
protected void onResume() {
    super.onResume();
    getData(); // Memuat ulang data setelah penghapusan
atau pembaruan
}
}

```

- PelangganAddActivity

```

• 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;

import java.util.UUID;

public class PelangganAddActivity extends AppCompatActivity {
    EditText nama, email, hp;
    Button btnSimpan, btnBatal;

    SQLiteHelper db;

```

```

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    EdgeToEdge.enable(this);
    setContentView(R.layout.activity_addpelanggan);

    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;
    });

    nama = (EditText) findViewById(R.id.edPelAddNama);
    email = (EditText) findViewById(R.id.edPelAddEmail);
    hp = (EditText) findViewById(R.id.edPelAddHp);
    btnSimpan = (Button)
        findViewById(R.id.btnPelAddSimpan);
    btnBatal = (Button) findViewById(R.id.btnPelAddBatal);

    db = new SQLiteHelper(PelangganAddActivity.this);

    btnSimpan.setOnClickListener(new
        View.OnClickListener() {
            @Override
            public void onClick (View v){
                ModelPelanggan mp = new ModelPelanggan();
                String uniqueID = UUID.randomUUID().toString();
                mp.setId(uniqueID);
                mp.setNama(nama.getText().toString());
                mp.setEmail(email.getText().toString());
                mp.setHp(hp.getText().toString());

                Toast.makeText(PelangganAddActivity.this, "" +
                    mp.getId() + mp.getNama() + mp.getEmail() + mp.getHp(),
                    Toast.LENGTH_SHORT).show();

                boolean cek = db.insertPelanggan(mp);
                if (cek == true){
                    Toast.makeText(PelangganAddActivity.this, "Data berhasil
                        disimpan" , Toast.LENGTH_SHORT).show();
                    startActivity(new
                        Intent(PelangganAddActivity.this , PelangganActivity.class));
                    finish();
                }else {
                    Toast.makeText(PelangganAddActivity.this,
                        "Data Gagal Disimpan", Toast.LENGTH_SHORT).show();
                }
            }
        });

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

```

```

        finish();
    }
    });
}
}

```

- PelangganEditActivity

```

• 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;

import java.util.UUID;

public class PelangganEditActivity extends AppCompatActivity {
    private String id, nama, email, hp;
    private EditText edPelEditNama, edPelEditEmail,
edPelEditHp;
    private Button btnPelEditSimpan, btnPelEditHapus,
btnPelEditBatal;

    SQLiteHelper db;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_pelanggan_edit);

        id = getIntent().getStringExtra("ID");
        nama = getIntent().getStringExtra("NAMA");
        email = getIntent().getStringExtra("EMAIL");
        hp = getIntent().getStringExtra("HP");

        db = new SQLiteHelper(this);
        edPelEditNama = findViewById(R.id.edPelEditNama);
        edPelEditEmail = findViewById(R.id.edPelEditEmail);
        edPelEditHp = findViewById(R.id.edPelEditHp);
        btnPelEditSimpan = findViewById(R.id.btnPelEditSimpan);
        btnPelEditHapus = findViewById(R.id.btnPelEditHapus);
        btnPelEditBatal = findViewById(R.id.btnPelEditBatal);
    }
}

```

```

        // Set data pelanggan ke EditText
        edPelEditNama.setText(nama);
        edPelEditEmail.setText(email);
        edPelEditHp.setText(hp);

        btnPelEditSimpan.setOnClickListener(new
        View.OnClickListener() {
            @Override
            public void onClick (View v){
                ModelPelanggan mp = new ModelPelanggan();

                if (id != null) {
                    mp.setId(id);
                } else {
                    String uniqueID =
                    UUID.randomUUID().toString();
                    mp.setId(uniqueID);
                }

                mp.setNama(edPelEditNama.getText().toString());

                mp.setEmail(edPelEditEmail.getText().toString());
                mp.setHp(edPelEditHp.getText().toString());

                if (id == null) {
                    boolean cek = db.insertPelanggan(mp);
                    if (cek) {

                        Toast.makeText(PelangganEditActivity.this, "Data berhasil
                        disimpan", Toast.LENGTH_SHORT).show();
                    } else {

                        Toast.makeText(PelangganEditActivity.this, "Data gagal
                        disimpan", Toast.LENGTH_SHORT).show();
                    }
                } else {
                    boolean cek = db.updatePelanggan(mp);
                    if (cek) {

                        Toast.makeText(PelangganEditActivity.this, "Data berhasil
                        diperbarui", Toast.LENGTH_SHORT).show();
                    } else {

                        Toast.makeText(PelangganEditActivity.this, "Data gagal
                        diperbarui", Toast.LENGTH_SHORT).show();
                    }
                }

                startActivity(new
                Intent(PelangganEditActivity.this, PelangganActivity.class));
                finish();
            }
        });

        btnPelEditHapus.setOnClickListener(new
        View.OnClickListener() {
            @Override
            public void onClick(View view) {

```

```

        if (id != null) {
            boolean cek = db.deletePelanggan(id);
            if (cek) {

                Toast.makeText(PelangganEditActivity.this, "Data berhasil
                dihapus", Toast.LENGTH_SHORT).show();
                startActivity(new
                Intent(PelangganEditActivity.this, PelangganActivity.class));
                finish();
            } else {

                Toast.makeText(PelangganEditActivity.this, "Data gagal
                dihapus", Toast.LENGTH_SHORT).show();
            }
        } else {
            Toast.makeText(PelangganEditActivity.this,
            "Tidak ada data yang dipilih untuk dihapus",
            Toast.LENGTH_SHORT).show();
        }
    }
});

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

```

- activity_pelanggan_edit.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=".Pelanggan.PelangganEditActivity"
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"
        tools:layout_editor_absoluteX="0dp"
        tools:layout_editor_absoluteY="12dp"
        tools:ignore="MissingConstraints">

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

```



```

        android:layout_marginBottom="@dimen/lg"
        android:text="EDIT 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/edPelEditNama"
        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/edPelEditEmail"
        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/edPelEditHp"
            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/btnPelEditSimpan"
            android:layout_width="120dp"
            android:layout_height="wrap_content"
            android:layout_marginRight="@dimen/xss"
            android:layout_weight="1"
            android:background="@color/primaryColor"
            android:text="Simpan" />

        <Button
            android:id="@+id/btnPelEditHapus"
            android:layout_width="120dp"
            android:layout_height="wrap_content"
            android:layout_marginLeft="@dimen/xss"
            android:layout_weight="1"
            android:background="#e35252"
            android:text="Hapus"
            android:textColor="@color/white" />

        <Button
            android:id="@+id/btnPelEditBatal"
            android:layout_width="120dp"
            android:layout_height="wrap_content"
            android:layout_marginLeft="@dimen/xss"
            android:layout_weight="1"
            android:background="@color/black"
            android:text="Batal"
            android:textColor="@color/white" />
    </LinearLayout>
</LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>

```

B. Layanan Activity

- LayananActivity

```

• 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.Pelanggan.PelangganActivity;
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);
            Intent intent = new
            Intent(humayrafahreri.laundryapps.Layanan.LayananActivity.this,
            LayananEditActivity.class);
            intent.putExtra("ID", ml.getId());
            intent.putExtra("TIPE", ml.getNamaLayanan());
            intent.putExtra("HARGA", ml.getHarga());
            startActivity(intent);
            Toast.makeText(LayananActivity.this, ""
            +ml.getNamaLayanan(),
            Toast.LENGTH_SHORT).show();
        }
    };

    private void getData() {
        list.clear();
        showMsg();
        progressDialog.dismiss();
        try {
            List<ModelLayanan> layananList = db.getLayanan();
            if (layananList.size() > 0) {
                list.addAll(layananList);
                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();
        } finally{
            progressDialog.dismiss();
        }
    }

    private void eventHandling() {
        btnLayAdd.setOnClickListener(new View.OnClickListener()
        {
            @Override
            public void onClick(View v) {
                v.startAnimation(btnAnimasi);
                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();
}

@Override
protected void onResume() {
    super.onResume();
    getData(); // Memuat ulang data setelah penghapusan
atau pembaruan
}
}

```

- LayananAddActivity

```

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

public class LayananAddActivity extends AppCompatActivity {
    EditText layanan, harga;
    Button btnSimpan, btnBatal;

    SQLiteHelper db;

    @Override
    protected void onCreate(Bundle savedInstanceState) {

```

```

        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_addlayananan);

        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;
        });

        layanan = (EditText)
        findViewById(R.id.edLayAddLayanan);
        harga = (EditText) findViewById(R.id.edLayAddHarga);
        btnSimpan = (Button)
        findViewById(R.id.btnLayAddSimpan);
        btnBatal = (Button) findViewById(R.id.btnLayAddBatal);

        db = new SQLiteHelper(LayananAddActivity.this);

        btnSimpan.setOnClickListener(new
        View.OnClickListener() {
            @Override
            public void onClick(View v) {
                ModelLayanan lm = new ModelLayanan();
                String uniqueID = UUID.randomUUID().toString();
                lm.setId(uniqueID);

                lm.setNamaLayanan(layanan.getText().toString());
                lm.setHarga(harga.getText().toString());

                Toast.makeText(LayananAddActivity.this, "" +
                lm.getId() + lm.getNamaLayanan() + lm.getHarga(),
                Toast.LENGTH_SHORT).show();

                boolean cek = db.insertLayanan(lm);
                if (cek == true) {
                    Toast.makeText(LayananAddActivity.this,
                    "Data berhasil disimpan", Toast.LENGTH_SHORT).show();
                    startActivity(new
                    Intent(LayananAddActivity.this, LayananActivity.class));
                    finish();
                } else {
                    Toast.makeText(LayananAddActivity.this,
                    "Data gagal disimpan", Toast.LENGTH_SHORT).show();
                }
            }
        });

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

```

```
}  
}
```

- LayananEditActivity

```
• 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 java.util.UUID;  
  
import humayrafahreri.laundryapps.R;  
import humayrafahreri.laundryapps.database.SQLiteHelper;  
import humayrafahreri.laundryapps.model.ModelLayanan;  
  
public class LayananEditActivity extends AppCompatActivity {  
    private String id, tipe, harga;  
    private EditText EditLayanan, EditHarga;  
    private Button EditSimpan, EditHapus, EditBatal;  
  
    SQLiteHelper db;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_layanan_edit);  
  
        id = getIntent().getStringExtra("ID");  
        tipe = getIntent().getStringExtra("TIPE");  
        harga = getIntent().getStringExtra("HARGA");  
  
        db = new SQLiteHelper(this);  
        EditLayanan = findViewById(R.id.EditLayanan);  
        EditHarga = findViewById(R.id.EditHarga);  
  
        EditLayanan.setText(tipe);  
        EditHarga.setText(harga);  
  
        EditSimpan = findViewById(R.id.EditSimpan);  
        EditHapus = findViewById(R.id.EditHapus);  
        EditBatal = findViewById(R.id.EditBatal);  
  
        EditSimpan.setOnClickListener(new  
View.OnClickListener() {  
            @Override  
            public void onClick (View v){  
                ModelLayanan ml = new ModelLayanan();  
  
                if (id != null) {
```

```

        ml.setId(id);
    } else {
        String uniqueID =
UUID.randomUUID().toString();
        ml.setId(uniqueID);
    }

ml.setNamaLayanan(EditLayanan.getText().toString());

ml.setHarga(EditHarga.getText().toString());

        boolean cek;
        if (id == null) {
            cek = db.insertLayanan(ml);
        } else {
            cek = db.updateLayanan(ml);
        }

        if (cek) {

Toast.makeText(LayananEditActivity.this, "Data berhasil
disimpan", Toast.LENGTH_SHORT).show();
        } else {

Toast.makeText(LayananEditActivity.this, "Data gagal disimpan",
Toast.LENGTH_SHORT).show();
        }

        startActivity(new
Intent(LayananEditActivity.this, LayananActivity.class));
        finish();
    }
});

EditHapus.setOnClickListener(new View.OnClickListener()
{
    @Override
    public void onClick(View view) {
        if (id != null) {
            boolean cek = db.deleteLayanan(id);
            if (cek) {

Toast.makeText(LayananEditActivity.this, "Data berhasil
dihapus", Toast.LENGTH_SHORT).show();
                startActivity(new
Intent(LayananEditActivity.this, LayananActivity.class));
                finish();
            } else {

Toast.makeText(LayananEditActivity.this, "Data gagal dihapus",
Toast.LENGTH_SHORT).show();
            }
        } else {
            Toast.makeText(LayananEditActivity.this,
"Tidak ada data yang dipilih untuk dihapus",
Toast.LENGTH_SHORT).show();
        }
    }
});
});

```



```

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

```

- activity_layanan_edit.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"
    android:background="@color/white"
    android:orientation="vertical"
    android:padding="@dimen/lg"
    tools:context=".Layanan.LayananEditActivity">

    <LinearLayout
      android:layout_width="match_parent"
      android:layout_height="wrap_content"
      android:layout_margin="@dimen/lg"
      android:orientation="vertical"
      tools:layout_editor_absoluteX="0dp"
      tools:layout_editor_absoluteY="12dp"
      tools:ignore="MissingConstraints">

      <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="@dimen/lg"
        android:text="EDIT 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="Layanan"
          android:textSize="13sp"
          android:textColor="@android:color/black" />

        <EditText
          android:id="@+id/EditLayanan"
          android:layout_width="match_parent"
          android:layout_height="wrap_content"

```

```

        android:layout_marginTop="@dimen/sm"
        android:background="@drawable/border_radius"
        android:drawableLeft="@drawable/ic_layanan"
        android:drawablePadding="@dimen/sm"
        android:hint="Masukkan layanan terbaru"
        android:padding="@dimen/md"
        android:textSize="13sp" />
</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:textSize="13sp"
        android:textColor="@android:color/black" />

    <EditText
        android:id="@+id/EditHarga"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="8dp"
        android:background="@drawable/border_radius"
        android:drawableLeft="@drawable/ic_harga"
        android:inputType="textEmailAddress"
        android:padding="@dimen/md"
        android:hint="Masukkan harga barang"
        android:textSize="13sp"/>
</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/EditSimpan"
        android:layout_width="120dp"
        android:layout_height="wrap_content"
        android:layout_marginRight="@dimen/xss"
        android:layout_weight="1"
        android:background="@color/primaryColor"
        android:text="Simpan" />

    <Button
        android:id="@+id/EditHapus"
        android:layout_width="120dp"
        android:layout_height="wrap_content"
        android:layout_marginLeft="@dimen/xss"
        android:layout_weight="1"
        android:background="#e35252"
        android:text="Hapus"
        android:textColor="@color/white" />

```

```

        <Button
            android:id="@+id/EditBatal"
            android:layout_width="120dp"
            android:layout_height="wrap_content"
            android:layout_marginLeft="@dimen/xss"
            android:layout_weight="1"
            android:background="@color/black"
            android:text="Batal"
            android:textColor="@color/white" />
    </LinearLayout>
</LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>

```

C. SQLHelper

```

D. 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 android.util.Log;

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 = 2;

    // 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
    public 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 + "("
            + KEY_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) {
            Log.d("SQLiteHelper", "onCreate called");
            db.execSQL(CREATE_TABLE_PELANGGAN);
            db.execSQL(CREATE_TABLE_LAYANAN); // Pastikan ini dipanggil
        }

        @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);
            onCreate(db); // Buat tabel kembali setelah dihapus
        }

        // Method untuk menambahkan pelanggan
        public boolean insertPelanggan(ModelPelanggan mp) {
            SQLiteDatabase database = this.getWritableDatabase();
            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());
            Log.d("InsertLayanan", "Mencoba untuk memasukkan data
            layanan: " + layanan.getNamaLayanan());
            long id = database.insert(TABLE_LAYANAN, null,
            contentValues);
            database.close();
            return id != -1;
        }

        //method untuk menghapus pelanggan
        public boolean deletePelanggan(String id) {
            SQLiteDatabase db = this.getWritableDatabase();

```

```

        return db.delete(TABLE_PELANGGAN, KEY_PELANGGAN_ID + "=?",
new String[]{id}) > 0;
    }

    //method untuk menghapus layanan
    public boolean deleteLayanan(String id) {
        SQLiteDatabase db = this.getWritableDatabase();
        return db.delete(TABLE_LAYANAN, KEY_LAYANAN_ID + " = ?", new
String[]{id}) > 0;
    }

    public ModelPelanggan getPelangganById(String pelangganId) {
        SQLiteDatabase db = this.getReadableDatabase();
        return null;
    }

    public ModelLayanan getLayananById(String LayananId) {
        SQLiteDatabase db = this.getReadableDatabase();
        return null;
    }

    public boolean updatePelanggan(ModelPelanggan mp) {
        SQLiteDatabase db = this.getWritableDatabase();
        return false;
    }

    public boolean updateLayanan(ModelLayanan ml) {
        SQLiteDatabase db = this.getWritableDatabase();
        return false;
    }

    // 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));
            } while (cursor.moveToNext());
        }
        cursor.close();
        return layananList;
    }

```

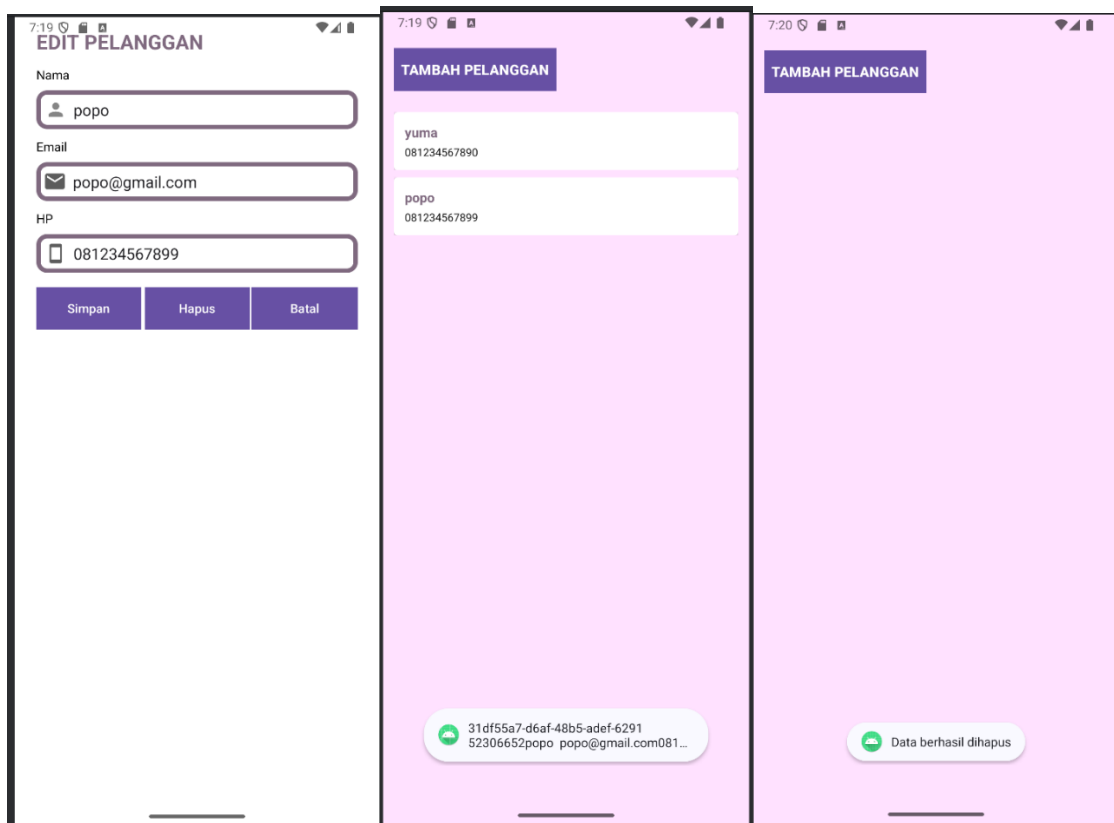
```

        l.setHarga(cursor.getString(2));
        layananList.add(l);
    } while (cursor.moveToNext());
}
cursor.close();
return layananList;
}
}

```

E. Output

- PelangganActivity



- LayananActivity

