

**LAPORAN PRAKTIKUM**  
**MODUL 1: REVIEW MOBILE DASAR**



**Oleh:**

Fany Ervansyah

1641720080

**PRUGRAM STUDI D4 TEKNIK INFORMATIKA**  
**JURUSAN TEKNOLOGI INFORMASI**  
**POLITEKNIK NEGERI MALANG**  
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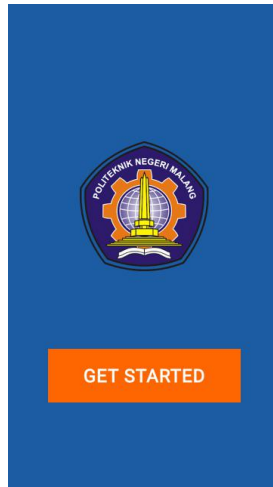
## 1. LATAR BELAKANG

Dalam pemrograman Android di Android Studio, **Layout** berguna untuk mengatur penempatan komponen sehingga, tampilan aplikasi akan tampak rapi dan teratur. **Recycle View** berguna untuk menampilkan data dalam jumlah besar pada komponen yang digunakan berulang-ulang. **SharedPreferences** adalah penyimpanan yang hanya menyimpan data berukuran kecil dan sederhana. **Intent** adalah objek pada pemrograman Android yang digunakan untuk berpindah halaman atau berkomunikasi dengan halaman lain. **SQLite** adalah sebuah database relasional yang berbentuk sebuah file (Bukan Client-Server). **Retrofit** adalah client HTTP type-safe untuk Android dan Java yang memudahkan untuk terhubung ke layanan REST pada suatu web.

## 2. TUJUAN

1. Mengingat kembali materi - materi yang telah diajarkan dalam pengembangan Aplikasi berbasis Mobile.
2. Mempersiapkan diri dalam dunia kerja, khususnya pada industri pengembangan aplikasi berbasis mobile.

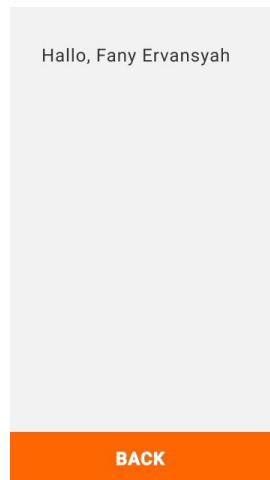
### 3. PERANCANGAN



Gambar 3-I Mockup Main Activity 1

A vertical rectangular mockup with a light gray background. At the top, the word "Biodata" is written in a small, dark font. Below it, there are two input fields, each with a red underline. The first field is labeled "nim" and the second is labeled "nama". At the bottom, centered, is an orange rectangular button with the text "ENTER" in white, uppercase letters.

Gambar 3-II Mockup Main Activity 2



Gambar 3-III Mockup Main Activity 3

## 4. IMPLEMENTASI

### 4.1. IMPLEMENTASI SOURCECODE

```
package com.example.app1;
import android.content.Intent;
import android.os.Bundle;
import com.google.android.material.floatingactionbutton.FloatingActionButton;
import com.google.android.material.snackbar.Snackbar;

import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.widget.Toolbar;

import android.view.View;
import android.view.Menu;
import android.view.MenuItem;
import android.widget.Button;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        Button btnGetStarted = findViewById(R.id.buttonGetStarted);

        btnGetStarted.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent i = new Intent(MainActivity.this, Main2Activity.class);
                startActivity(i);
            }
        });
    }
}
```

```

    }
    });
}
}

```

***Sorcecode 4.1 Sourcecode MainActivity.java***

```

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

    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    app:layout_behavior="@string/appbar_scrolling_view_behavior"
    android:orientation="vertical"
    android:background="#04f"
    tools:context=".MainActivity"
    tools:showIn="@layout/activity_main">

    <ImageView
        android:layout_width="200dp"
        android:layout_height="200dp"
        android:src="@drawable/polinemalogo"
        android:layout_gravity="center_horizontal"
        android:layout_marginTop="170dp"/>
    <Button
        android:id="@+id/buttonGetStarted"
        android:layout_width="300dp"
        android:layout_height="80dp"
        android:layout_marginTop="100dp"
        android:layout_gravity="center_horizontal"
        android:text="GET STARTED"
        android:textSize="25dp"
        android:textColor="#ffffff"
        android:background="#ff8100"/>

</LinearLayout>

```

***Sorcecode 4.2 Sourcecode MainActivity.xml***

```

package com.example.app1;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;

```



```

import android.view.View;
import android.widget.Button;
import android.widget.TextView;

public class Main2Activity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);

        Button btnEnter = findViewById(R.id.buttonEnter);
        final TextView tvUsername = findViewById(R.id.nama);

        btnEnter.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent i = new Intent(Main2Activity.this, Main3Activity.class);
                i.putExtra("username", tvUsername.getText().toString());
                startActivity(i);
            }
        });
    }
}

```

***Sorcecode 4.3 Sourcecode Main2Activity.java***

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".Main2Activity">

    <TextView
        android:id="@+id/biodata"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Biodata"
        android:textSize="40dp"
        android:layout_marginTop="30dp"
        android:layout_marginLeft="30dp"/>

    <EditText
        android:id="@+id/nim"
        android:layout_width="match_parent"

```

```

        android:layout_height="wrap_content"
        android:layout_below="@+id/biodata"
        android:hint="nim"
        android:layout_marginTop="40dp"
        android:layout_marginLeft="30dp"
        android:layout_marginRight="30dp"/>
<EditText
    android:id="@+id/nama"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@+id/nim"
    android:hint="nama"
    android:layout_marginTop="40dp"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="30dp"/>
<Button
    android:id="@+id/buttonEnter"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@+id/nama"
    android:text="ENTER"
    android:textSize="30dp"
    android:textColor="#fff"
    android:background="@color/colorOrange"
    android:layout_marginTop="70dp"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="30dp"/>

</RelativeLayout>

```

***Sorcecode 4.4 Sourcecode Main2Activity.xml***

```

package com.example.app1;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

public class Main3Activity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {

```

```

super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main3);

Intent i = getIntent();
TextView tvUsername = findViewById(R.id.textViewUsername);
Button btnBack = findViewById(R.id.back);
String text = "Hallo, "+i.getStringExtra("username");

tvUsername.setText(text);

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

```

*Sorcecode 4.5 Sourcecode Main3Activity.java*

```

<?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:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".Main3Activity">

    <TextView
        android:id="@+id/textViewUsername"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Halo, Username"
        android:textColor="#555"
        android:textSize="40dp"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        android:layout_marginTop="50dp"
        android:layout_marginLeft="20dp"
    >

```

```

        android:maxWidth="300dp"/>

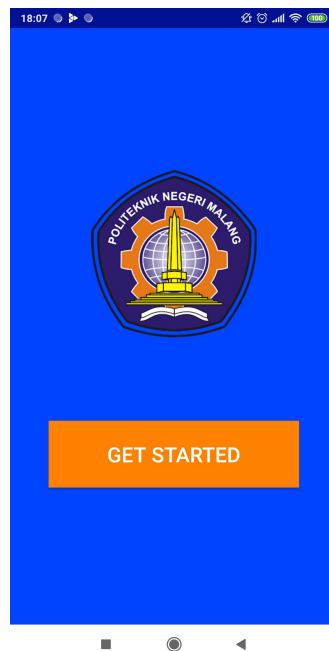
        <Button
            android:id="@+id/back"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            android:text="BACK"
            android:textColor="#fff"
            android:textSize="40dp"
            android:background="@color/colorOrange"
        />

    </androidx.constraintlayout.widget.ConstraintLayout>

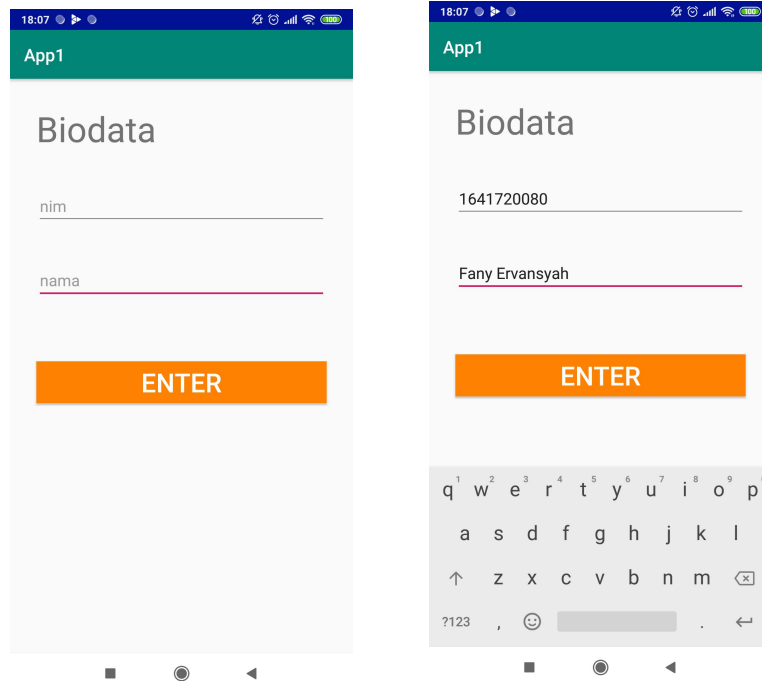
```

*Sorcecode 4.6 Sourcecode Main3Activity.xml*

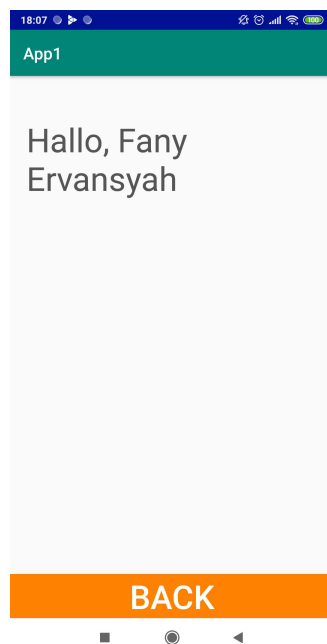
## 4.2. IMPLEMENTASI TAMPILAN



**Gambar 4-1 Activity 1**



**Gambar 4-II Activity 2**



**Gambar 4-III Activity 3**

## 5. DAFTAR PUSTAKA

1. <https://www.codepolitan.com/mempelajari-layout-pada-android-studio>
2. [https://google-developer-training.github.io/android-developer-fundamentals-course-concepts/idn/Unit%202/44 c recyclerview.html](https://google-developer-training.github.io/android-developer-fundamentals-course-concepts/idn/Unit%202/44%20c%20recyclerview.html)
3. <https://medium.com/dot-lab/tutorial-penggunaan-shared-preferences-pada-android-eddc300d7509>
4. <https://www.codepolitan.com/belajar-menggunakan-intent-sebuah-jembatan-interaksi-antar-komponen-599a5576271ef>
5. <https://www.codepolitan.com/5-keunggulan-sqlite>
6. <https://code.tutsplus.com/id/tutorials/sending-data-with-retrofit-2-http-client-for-android--cms-27845>