

# **LAPORAN PRAKTIKUM PENGEMBANGAN APLIKASI BERGERAK**

## **Android Beginner 1 - Week 3**



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## 1. Screenshot Source Code

```
MainActivity.kt

package com.yanfiq.sigatto

import android.content.Intent
import android.net.Uri
import android.os.Bundle
import android.view.View
import android.widget.Button
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AppCompatActivity
import androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat

class MainActivity : AppCompatActivity(), View.OnClickListener {

    private lateinit var btnProfile : Button
    private lateinit var btnGithub : Button
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_main)
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v, insets →
            val systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars())
            v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom)
            insets
        }

        btnProfile = findViewById(R.id.btnProfile)
        btnGithub = findViewById(R.id.btnGithub)

        btnProfile.setOnClickListener(this)
        btnGithub.setOnClickListener(this)
    }

    override fun onClick(v: View?) {
        when(v?.id){
            R.id.btnProfile → {
                val profileIntent = Intent(this@MainActivity, ProfileActivity::class.java)
                startActivity(profileIntent)
            }
            R.id.btnGithub → {
                val implicitIntent = Intent(Intent.ACTION_VIEW, Uri.parse("https://github.com/Yanfiq"))
                startActivity(implicitIntent)
            }
        }
    }
}
```

Didalam MainActivity ini dilakukan peng-set-an kegiatan Ketika listener click ke-trigger. Ketika tombol dengan id btnProfile tertrigger, maka activity kedua (ProfileActivity) akan di-start dengan explicit intent. Sedangkan jika tombol dengan id btnGithub tertrigger, maka user akan diredirect ke laman web <https://github.com/Yanfiq> dengan implicit intent.

```

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">

    <TextView
        android:id="@+id/appName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="33dp"
        android:layout_marginBottom="48dp"
        android:text="@string/app_name"
        android:textSize="28sp"
        app:layout_constraintBottom_toTopOf="@+id/gattoImage"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <ImageView
        android:id="@+id/gattoImage"
        android:layout_width="248dp"
        android:layout_height="247dp"
        android:layout_marginTop="16dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.496"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/appName"
        app:srcCompat="@drawable/cat" />

    <TextView
        android:id="@+id/welcome"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="131dp"
        android:layout_marginTop="32dp"
        android:layout_marginEnd="132dp"
        android:text="@string/gatto_intro"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/gattoImage" />

    <TextView
        android:id="@+id/gattoIntroduction"
        android:layout_width="265dp"
        android:layout_height="106dp"
        android:layout_marginTop="16dp"
        android:gravity="center"
        android:text="@string/gatto_welcome"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/welcome" />

    <Button
        android:id="@+id/btnProfile"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/btnProfile_label"
        app:layout_constraintBottom_toTopOf="@+id/btnGithub"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <Button
        android:id="@+id/btnGithub"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="40dp"
        android:text="@string/btnGithub_label"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

Activity\_main.xml ini merupakan layout dari MainActivity, disitu terlihat bahwa activity ini memiliki 3 TextView, 1 ImageView, dan 2 Button. Layout ini menggunakan ConstraintLayout untuk layouting nya

```

ProfileActivity.kt

package com.yanfiq.sigatto

import android.content.Intent
import android.os.Bundle
import android.view.View
import android.widget.Button
import androidx.activity.enableEdgeToEdge
import androidx.appcompat.app.AppCompatActivity
import androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat

class ProfileActivity : AppCompatActivity(), View.OnClickListener {

    private lateinit var btnShare : Button
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContentView(R.layout.activity_profile)
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v, insets →
            val systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars())
            v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom)
            insets
        }

        btnShare = findViewById(R.id.btnShare)
        btnShare.setOnClickListener(this)
    }

    override fun onClick(v: View?) {
        when(v?.id){
            R.id.btnShare → {
                val sendIntent: Intent = Intent().apply {
                    action = Intent.ACTION_SEND
                    putExtra(Intent.EXTRA_TEXT, """
                        NIM      : L0122114
                        Name     : Muhammad Ryan Fikri Fakhrezi
                        Major    : Informatics
                        Gen       : 2022
                        Desc     : Introducing my name is Muhammad Ryan Fikri Fakhrezi, you can call me Ryan.
                    """.trimIndent())
                    type = "text/plain"
                }

                val shareIntent = Intent.createChooser(sendIntent, null)
                startActivity(shareIntent)
            }
        }
    }
}

```

Didalam ProfileActivity ini dilakukan peng-set-an kegiatan Ketika listener click ke-trigger. Ketika tombol dengan id btnShare tertrigger, maka aplikasi akan meng-share sebuah text dengan implicit intent.

```

activity_profile.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=".ProfileActivity">

    <de.hdodenhof.circleimageview.CircleImageView
        android:id="@+id/profilePicture"
        android:layout_width="180dp"
        android:layout_height="180dp"
        android:layout_marginTop="55dp"
        android:src="@drawable/img_20220915_wa0054"
        app:civ_border_color="#FF000000"
        app:civ_border_width="1dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/textNim"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:text="@string/my_nim"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/profilePicture" />

    <TextView
        android:id="@+id/textName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="12dp"
        android:text="@string/my_name"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textNim" />

    <TextView
        android:id="@+id/textMajorGen"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="8dp"
        android:text="@string/my_major_gen"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textName" />

    <TextView
        android:id="@+id/textDescLabel"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="12dp"
        android:text="@string/desc_label"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textMajorGen" />

    <TextView
        android:id="@+id/textDesc"
        android:layout_width="244dp"
        android:layout_height="122dp"
        android:layout_marginTop="8dp"
        android:gravity="center"
        android:text="@string/my_desc"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.496"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textDescLabel" />

    <Button
        android:id="@+id/btnShare"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="60dp"
        android:text="@string/btnShare_label"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

Activity\_profile.xml ini merupakan layout dari ProfileActivity, disitu terlihat bahwa activity ini memiliki 5 TextView, 1 CircleImageView, dan 1 Button. Layout ini menggunakan ConstraintLayout untuk layouting nya

## 2. Screenshot Aplikasi

