## LAPORAN PRAKTIKUM PENGEMBANGAN APLIKASI BERGERAK

# Android Beginner 1 - Week 3



## Disusun oleh:

Nama : Muhammad Ryan Fikri Fakhrezi

Nim : L0122114

Kelas : C

# PROGRAM STUDI INFORMATIKA FAKULTAS TEKNOLOGI INFORMASI DAN SAINS DATA UNIVERSITAS SEBELAS MARET

### 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 \rightarrow ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) \}
            val systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars())
            v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom)
        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 \rightarrow {
                 val profileIntent = Intent(this@MainActivity, ProfileActivity::class.java)
                 startActivity(profileIntent)
            \texttt{R.id.btnGithub} \, \rightarrow \, \{
                 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 distart dengan explicit intent. Sedangkan jika tombol dengan id btnGithub tertrigger, maka user akan diredirect ke laman web <a href="https://github.com/Yanfiq">https://github.com/Yanfiq</a> dengan implicit intent.

```
activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
   xmlns:app="http://schemas.android.com/apk/res-auto"
    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="20sp"
        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" >
       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" />
        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" />
        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"
✓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
{\color{red} \textbf{import}} \ \ \textbf{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)
        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 
ightarrow {
               val sendIntent: Intent = Intent().apply {
                   action = Intent.ACTION_SEND
                   putExtra(Intent.EXTRA_TEXT, """
                              : L0122114
                               : Muhammad Ryan Fikri Fakhrezi
                       Name
                       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"</pre>
                 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">
                                 .nouchmiot.interlangeriew.interlangeriew
android:id="@+id/profilePicture"
android:layout_width="180dp"
android:layout_height="180dp"
android:syout_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"
                                   android:id="@+id/textNim"
                                  android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="16dp"
                                   android:text="@string/my_nim"
                                  amurout.text= @string/wg_nim
app:layout_constraintHorizontal_bias="0.498"
app:layout_constraintHorizontal_bias="0.498"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_to8ottomOf="@+id/profilePicture" />
              <TextView
android:id="@+id/textName"
android:layout_midth="wrap_content"
android:layout_midth="wrap_content"
android:layout_marginTop="12dp"
android:text="@string/my_name"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintStart_toStartOf="pare
                                   app:layout constraintTop toBottomOf="0+id/textNim" >
                                   android:id="@+id/textMajorGen"
                                 android:Novot.width="wmap_content"
android:Novot.width="wmap_content"
android:Novot.mein="mmap_content"
android:Novot.merginTop="8dp"
android:tx+c="@string/wy_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
                               xtView
android:id="@+id/textDescLabel"
android:layout_width="wrap_content"
android:layout_meight="wrap_content"
android:layout_aneginTop="12dp"
android:text="@string/desc_label"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/textMajorGen" />
                                 android:id="@+id/textDesc"
android:layout_midth="246dp"
android:layout_merginTop="8dp"
android:layout_merginTop="8dp"
android:gravity="center"
android:text="@string/my_desc"
                                  app:layout_constraintEnd_toEndOf="parent"
                                  app:layout_constraintNorizontal_bias="0.496"
app:layout_constraintNorizontal_bias="0.496"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/textDescLabel" >>
                                  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_toBottomOff="parent"
app:layout_constraintEnd_toEndOff="parent"
app:layout_constraintNorizontal_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

