

# **LAPORAN PRAKTIKUM PENGEMBANGAN APLIKASI BERGERAK**

## **Android Fundamental 1 - WEEK 6**



Disusun oleh:

Nama : Yudha Cahya Wijaya

Nim : L0122156

Kelas : D

**PROGRAM STUDI INFORMATIKA**

**FAKULTAS TEKNOLOGI INFORMASI DAN SAINS DATA**

**UNIVERSITAS SEBELAS MARET**

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1. Screenshot Source Code
  - a. Mobile\_navigation.xml

```
<?xml version="1.0" encoding="utf-8"?>
<navigation 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/mobile_navigation"
    app:startDestination="@+id/navigation_info">

    <fragment
        android:id="@+id/navigation_info"
        android:name="com.example.ppab6.ui.info.InfoFragment"
        android:label="@string/title_info"
        tools:layout="@layout/fragment_info" />

    <fragment
        android:id="@+id/navigation_dashboard"
        android:name="com.example.ppab6.ui.dashboard.DashboardFragment"
        android:label="@string/title_dashboard"
        tools:layout="@layout/fragment_dashboard" />

    <fragment
        android:id="@+id/navigation_bartender"
        android:name="com.example.ppab6.ui.bartender.BartenderFragment"
        android:label="@string/title_bartender"
        tools:layout="@layout/fragment_bartender" />
</navigation>
```

Script di atas merupakan script untuk menentukan fragment apa saja yang terdaftar.

- b. MainActivity.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"
    android:id="@+id/container"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <com.google.android.material.bottomnavigation.BottomNavigationView
        android:id="@+id/nav_view"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginStart="0dp"
        android:layout_marginEnd="0dp"
        android:background="?android:attr/windowBackground"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:menu="@menu/bottom_nav_menu" />

    <fragment
        android:id="@+id/nav_host_fragment_activity_main"
        android:name="androidx.navigation.fragment.NavHostFragment"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        app:defaultNavHost="true"
        app:layout_constraintBottom_toTopOf="@id/nav_view"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="1.0"
        app:navGraph="@navigation/mobile_navigation" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

Script di atas merupakan script desain dari halaman utama program.

### c. MainActivity.kt

```

package com.example.ppab6

import android.os.Bundle
import com.google.android.material.bottomnavigation.BottomNavigationView
import androidx.appcompat.app.AppCompatActivity
import androidx.navigation.findNavController
import androidx.navigation.ui.AppBarConfiguration
import androidx.navigation.ui.setupActionBarWithNavController
import androidx.navigation.ui.setupWithNavController
import com.example.ppab6.databinding.ActivityMainBinding

class MainActivity : AppCompatActivity() {

    private lateinit var binding: ActivityMainBinding

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)

        binding = ActivityMainBinding.inflate(layoutInflater)
        setContentView(binding.root)

        val navView: BottomNavigationView = binding.navView

        val navController = findNavController(R.id.nav_host_fragment_activity_main)
        // Passing each menu ID as a set of IDs because each
        // menu should be considered as top level destinations.
        val appBarConfiguration = AppBarConfiguration(
            setOf(
                R.id.navigation_info, R.id.navigation_dashboard, R.id.navigation_bartender
            )
        )
        navView.setupWithNavController(navController)
    }
}

```

Script di atas merupakan script activity untuk halaman utama. Di sini masing-masing destination akan didaftarkan.

#### d. InfoFragment.kt

```

package com.example.ppab6.ui.info

import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import androidx.fragment.app.Fragment
import androidx.lifecycle.ViewModelProvider
import com.example.ppab6.databinding.FragmentInfoBinding

class InfoFragment : Fragment() {

    private var _binding: FragmentInfoBinding? = null

    // This property is only valid between onCreateView and
    // onDestroyView.
    private val binding get() = _binding!!

    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View {
        val homeViewModel =
            ViewModelProvider(this).get(InfoViewModel::class.java)

        _binding = FragmentInfoBinding.inflate(inflater, container, false)
        val root: View = binding.root

        return root
    }

    override fun onDestroyView() {
        super.onDestroyView()
        _binding = null
    }
}

```

Script di atas merupakan script fragment dari info page.

e. DashboardFragment.kt

```

package com.example.ppab6.ui.dashboard

import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.TextView
import androidx.fragment.app.Fragment
import androidx.lifecycle.ViewModelProvider
import com.example.ppab6.databinding.FragmentDashboardBinding

class DashboardFragment : Fragment() {

    private var _binding: FragmentDashboardBinding? = null

    // This property is only valid between onCreateView and
    // onDestroyView.
    private val binding get() = _binding!!

    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View {
        val dashboardViewModel =
            ViewModelProvider(this).get(DashboardViewModel::class.java)

        _binding = FragmentDashboardBinding.inflate(inflater, container, false)
        val root: View = binding.root

        return root
    }

    override fun onDestroyView() {
        super.onDestroyView()
        _binding = null
    }
}

```

Script di atas merupakan script fragment dari dashboard page.

f. BartenderFragment.kt

```

package com.example.ppab6.ui.bartender

import android.os.Bundle
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.TextView
import androidx.fragment.app.Fragment
import androidx.lifecycle.ViewModelProvider
import com.example.ppab6.databinding.FragmentBartenderBinding

class BartenderFragment : Fragment() {

    private var _binding: FragmentBartenderBinding? = null

    // This property is only valid between onCreateView and
    // onDestroyView.
    private val binding get() = _binding!!

    override fun onCreateView(
        inflater: LayoutInflater,
        container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View {
        val notificationsViewModel =
            ViewModelProvider(this).get(BartenderViewModel::class.java)

        _binding = FragmentBartenderBinding.inflate(inflater, container, false)
        val root: View = binding.root

        return root
    }


    override fun onDestroyView() {
        super.onDestroyView()
        _binding = null
    }
}

```

Script di atas merupakan script fragment dari bartender page.

g. bottom\_nav\_menu.kt





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

    <item
        android:id="@+id/navigation_info"
        android:icon="@drawable/info"
        android:title="@string/title_info" />

    <item
        android:id="@+id/navigation_dashboard"
        android:icon="@drawable/dashboard"
        android:title="@string/title_dashboard" />

    <item
        android:id="@+id/navigation_bartender"
        android:icon="@drawable/people"
        android:title="@string/title_bartender" />

</menu>
```

Script di atas digunakan untuk membuat tombol pada bottom navigation.



## 2. Screenshot



21.46



## Meet Our Bartender!



James Billington



Luke Shaw



Antony Tork



Sasha Willy



Info



Dashboard



Bartender