Nama: Ika Novita Manurung.

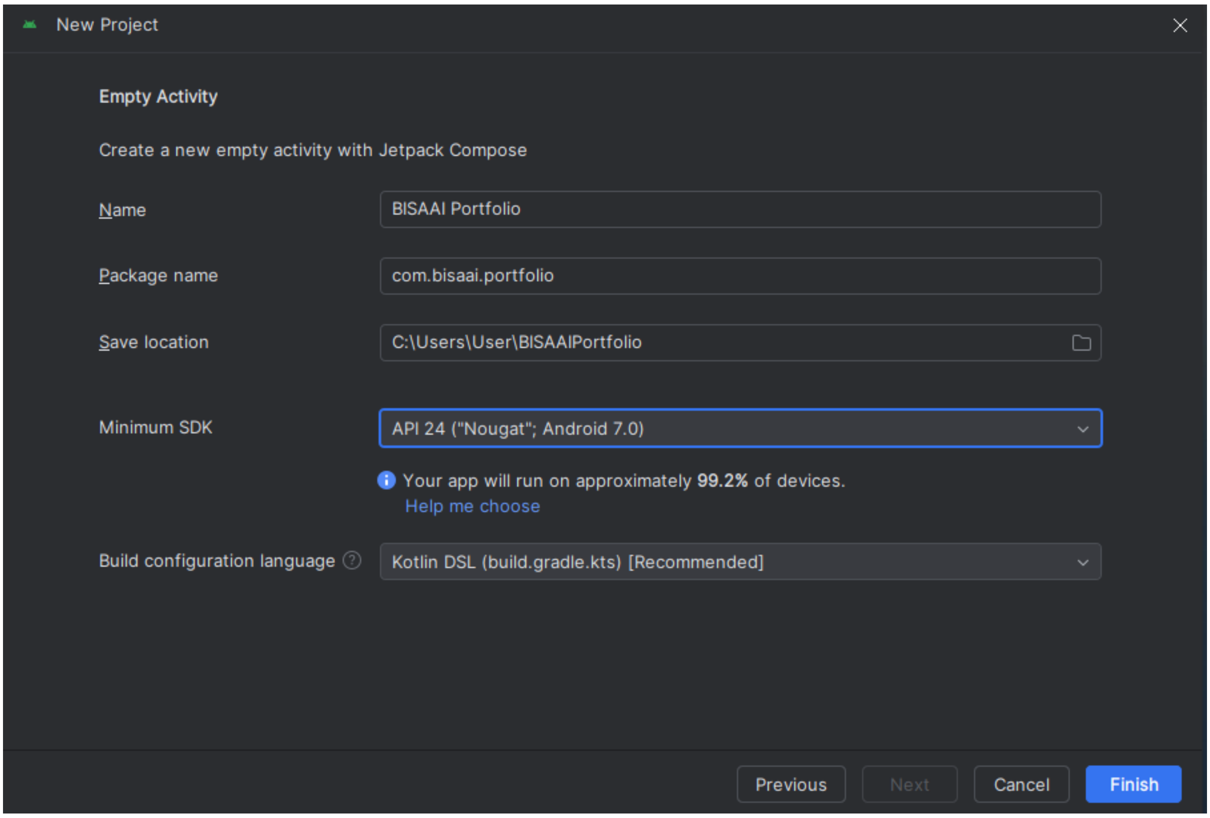
Kelas : SK231.

NIM : 202302110030.

Prodi : Sistem Informasi.

Mata Kuliah: Pemrograman Mobile.

1. Lakukan setup projek seperti ini.



New Project

Empty Activity

Create a new empty activity with Jetpack Compose

Name: BISAAI Portfolio

Package name: com.bisaai.portfolio

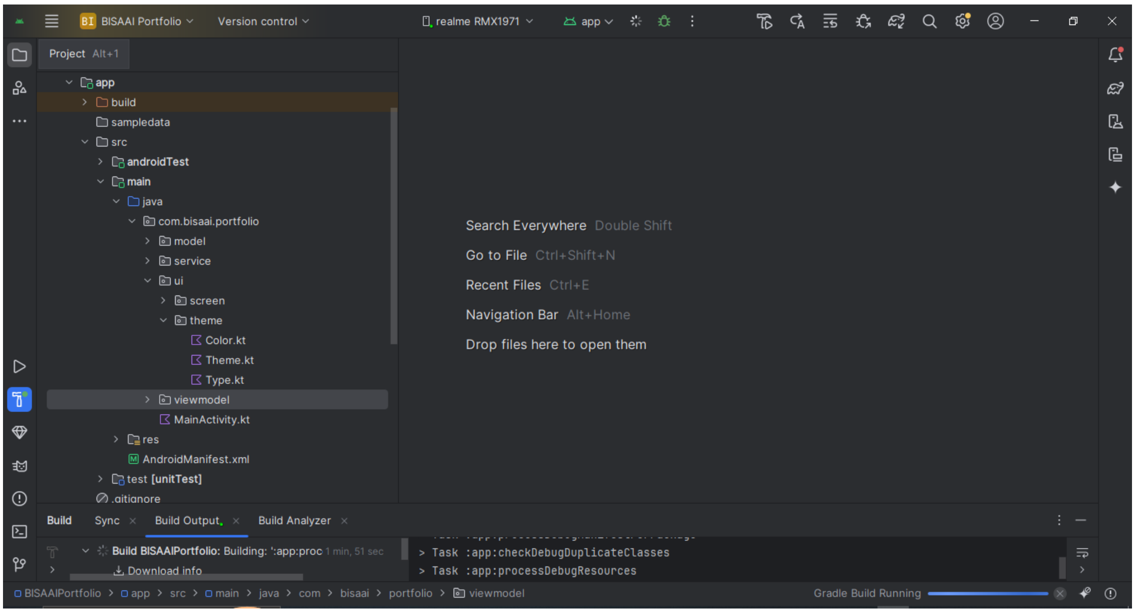
Save location: C:\Users\User\BISAAIPortfolio

Minimum SDK: API 24 ("Nougat"; Android 7.0)

Your app will run on approximately **99.2%** of devices.
Help me choose

Build configuration language: Kotlin DSL (build.gradle.kts) [Recommended]

2. Buat folder seperti berikut



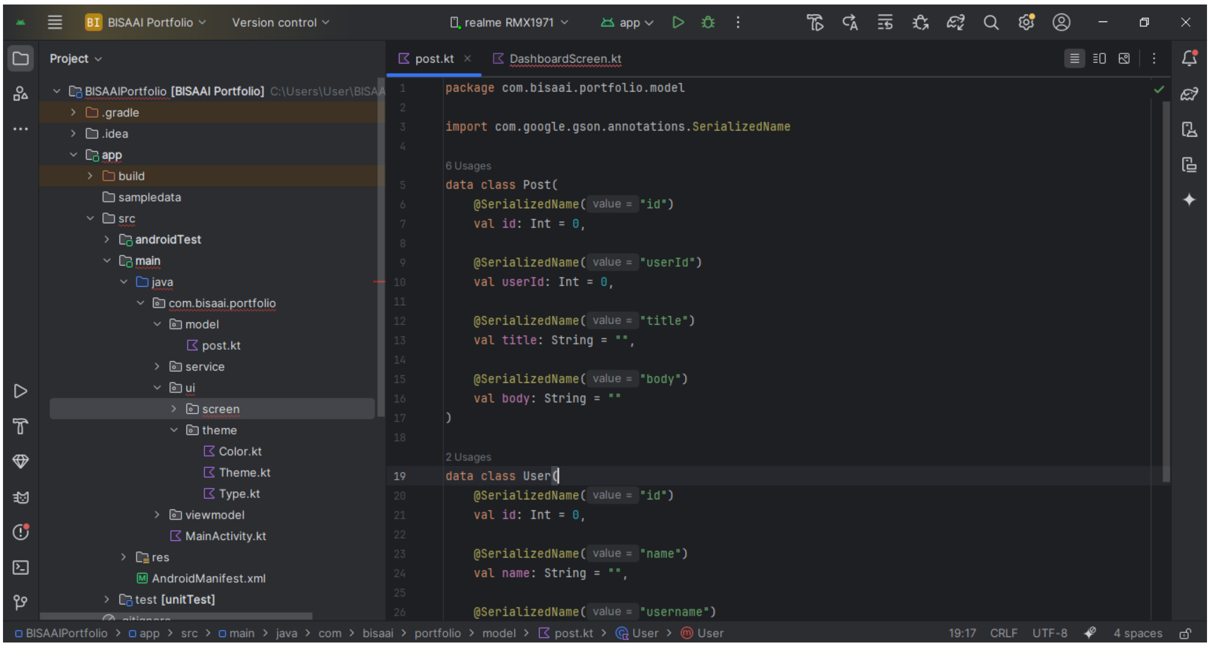
```
app
  build
  sampledata
  src
    androidTest
    main
      java
        com.bisaai.portfolio
          model
          service
          ui
            screen
            theme
              Color.kt
              Theme.kt
              Type.kt
          viewmodel
          MainActivity.kt
      res
      AndroidManifest.xml
    test [unitTest]
  .gitignore
```

```
Build BISAAIPortfolio: Building: ':app:proc 1 min, 51 sec
  Download info
> Task :app:checkDebugDuplicateClasses
> Task :app:processDebugResources
```

BISAAIPortfolio > app > src > main > java > com > bisaai > portfolio > viewmodel

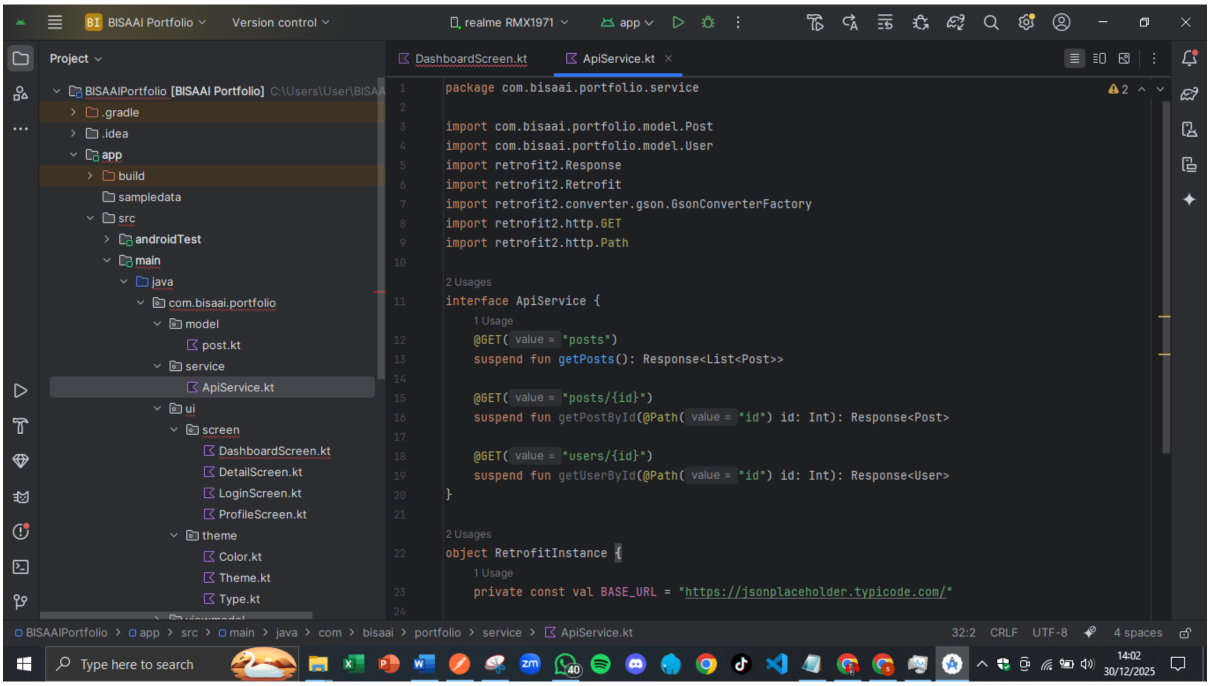
Gradle Build Running

3. Isi file model/Post.kt:



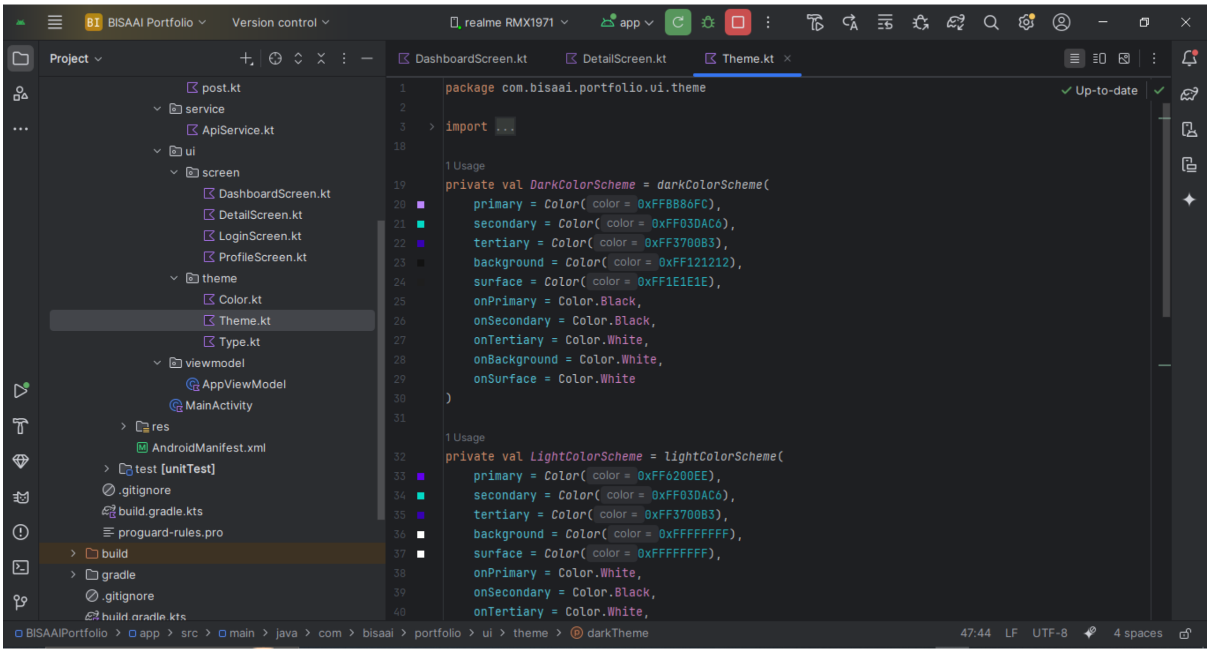
```kotlin
package com.bisaai.portfolio.model

import com.google.gson.annotations.SerializedName

data class Post(
    @SerializedName("id")
    val id: Int = 0,

    @SerializedName("userId")
    val userId: Int = 0,

    @SerializedName("title")
    val title: String = "",

    @SerializedName("body")
    val body: String = ""
)

data class User(
    @SerializedName("id")
    val id: Int = 0,

    @SerializedName("name")
    val name: String = "",

    @SerializedName("username")
```

4. Isi file services/ApiService.kt:



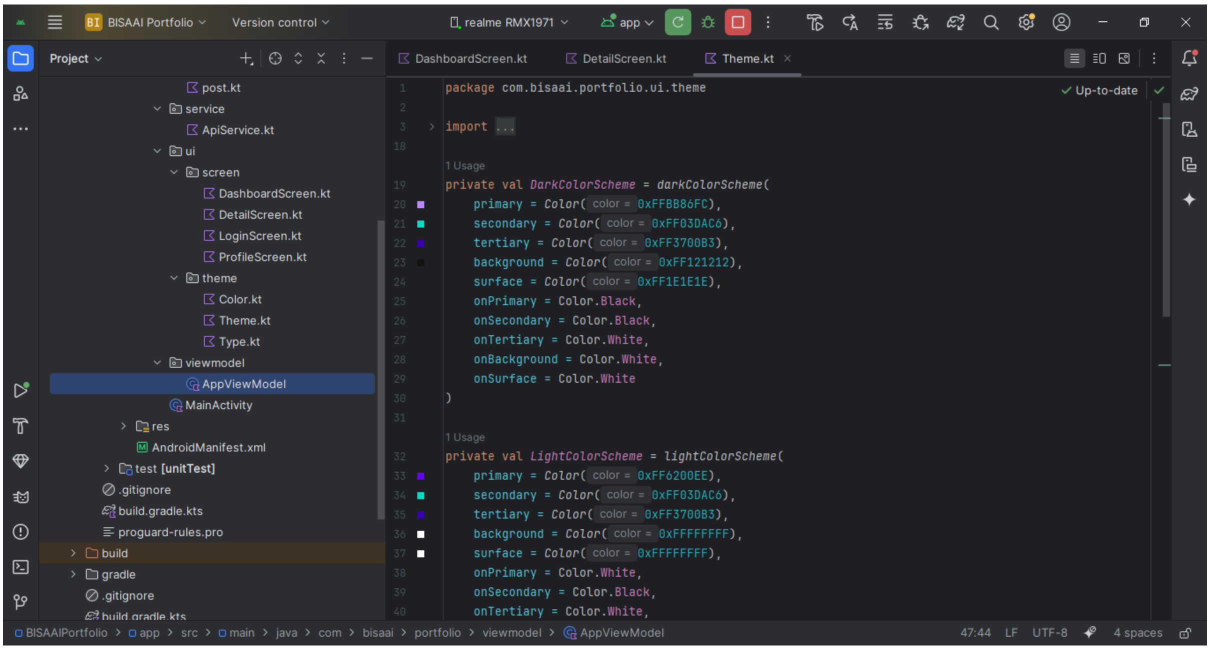
```kotlin
package com.bisaai.portfolio.service

import com.bisaai.portfolio.model.Post
import com.bisaai.portfolio.model.User
import retrofit2.Response
import retrofit2.Retrofit
import retrofit2.converter.gson.GsonConverterFactory
import retrofit2.http.GET
import retrofit2.http.Path

interface ApiService {
    @GET("posts")
    suspend fun getPosts(): Response<List<Post>>

    @GET("posts/{id}")
    suspend fun getPostById(@Path("id") id: Int): Response<Post>

    @GET("users/{id}")
    suspend fun getUserById(@Path("id") id: Int): Response<User>
}

object RetrofitInstance {
    private const val BASE_URL = "https://jsonplaceholder.typicode.com/"
```

5. Isi file untuk theme/theme.kt:



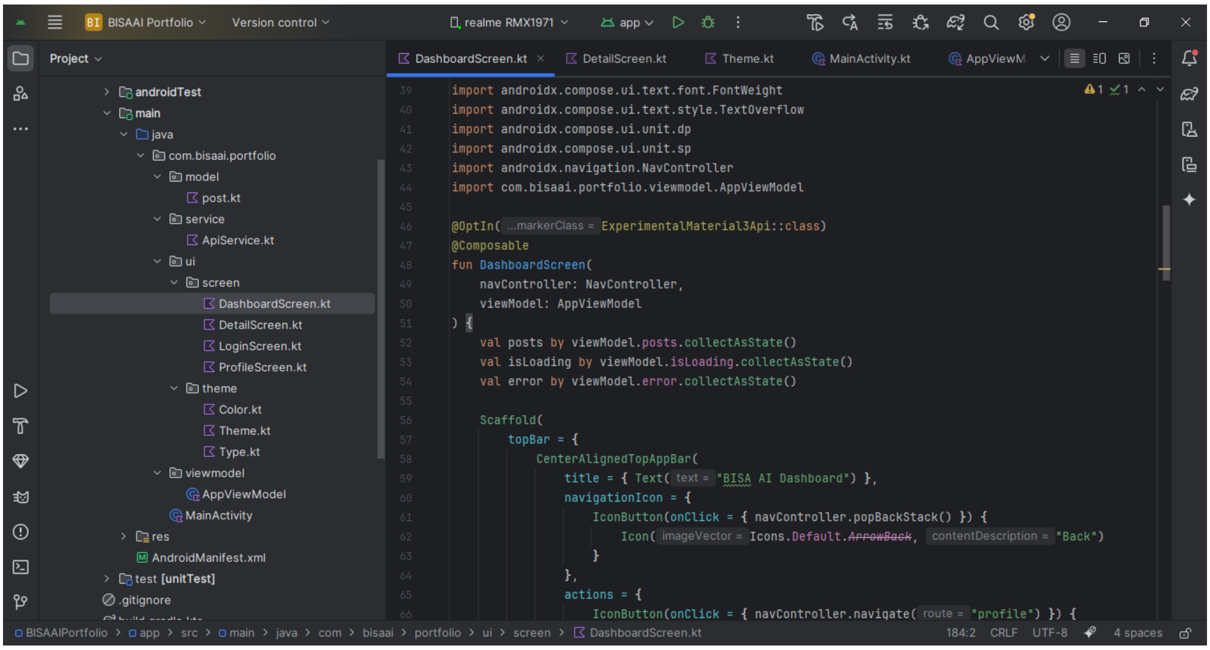
```
package com.bisaai.portfolio.ui.theme

import ...

1 Usage
private val DarkColorScheme = darkColorScheme(
    primary = Color( color = 0xFFBB86FC),
    secondary = Color( color = 0xFF03DAC6),
    tertiary = Color( color = 0xFF3700B3),
    background = Color( color = 0xFF121212),
    surface = Color( color = 0xFF1E1E1E),
    onPrimary = Color.Black,
    onSecondary = Color.Black,
    onTertiary = Color.White,
    onBackground = Color.White,
    onSurface = Color.White
)

1 Usage
private val LightColorScheme = lightColorScheme(
    primary = Color( color = 0xFF6200EE),
    secondary = Color( color = 0xFF03DAC6),
    tertiary = Color( color = 0xFF3700B3),
    background = Color( color = 0xFFFFFFFF),
    surface = Color( color = 0xFFFFFFFF),
    onPrimary = Color.White,
    onSecondary = Color.Black,
    onTertiary = Color.White,
```

Isi file viewmodel/AppViewModel.kt:



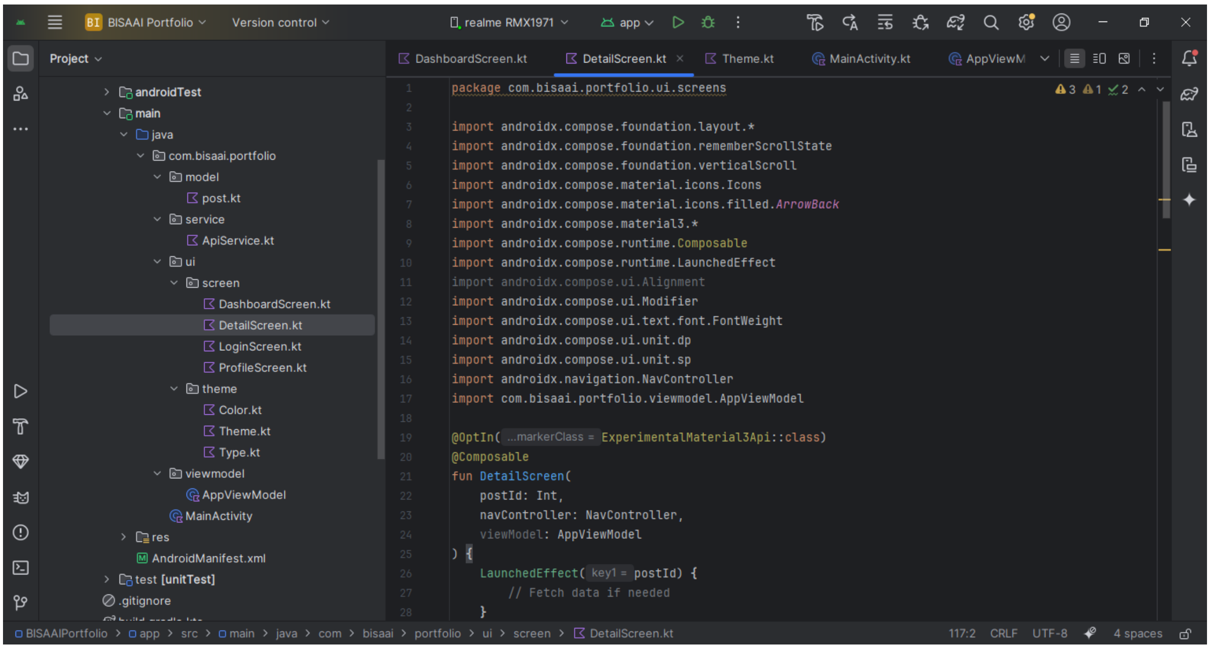
```
package com.bisaai.portfolio.ui.theme

import ...

1 Usage
private val DarkColorScheme = darkColorScheme(
    primary = Color( color = 0xFFBB86FC),
    secondary = Color( color = 0xFF03DAC6),
    tertiary = Color( color = 0xFF3700B3),
    background = Color( color = 0xFF121212),
    surface = Color( color = 0xFF1E1E1E),
    onPrimary = Color.Black,
    onSecondary = Color.Black,
    onTertiary = Color.White,
    onBackground = Color.White,
    onSurface = Color.White
)

1 Usage
private val LightColorScheme = lightColorScheme(
    primary = Color( color = 0xFF6200EE),
    secondary = Color( color = 0xFF03DAC6),
    tertiary = Color( color = 0xFF3700B3),
    background = Color( color = 0xFFFFFFFF),
    surface = Color( color = 0xFFFFFFFF),
    onPrimary = Color.White,
    onSecondary = Color.Black,
    onTertiary = Color.White,
```

6. Halaman screen/DashboardScreen.kt:



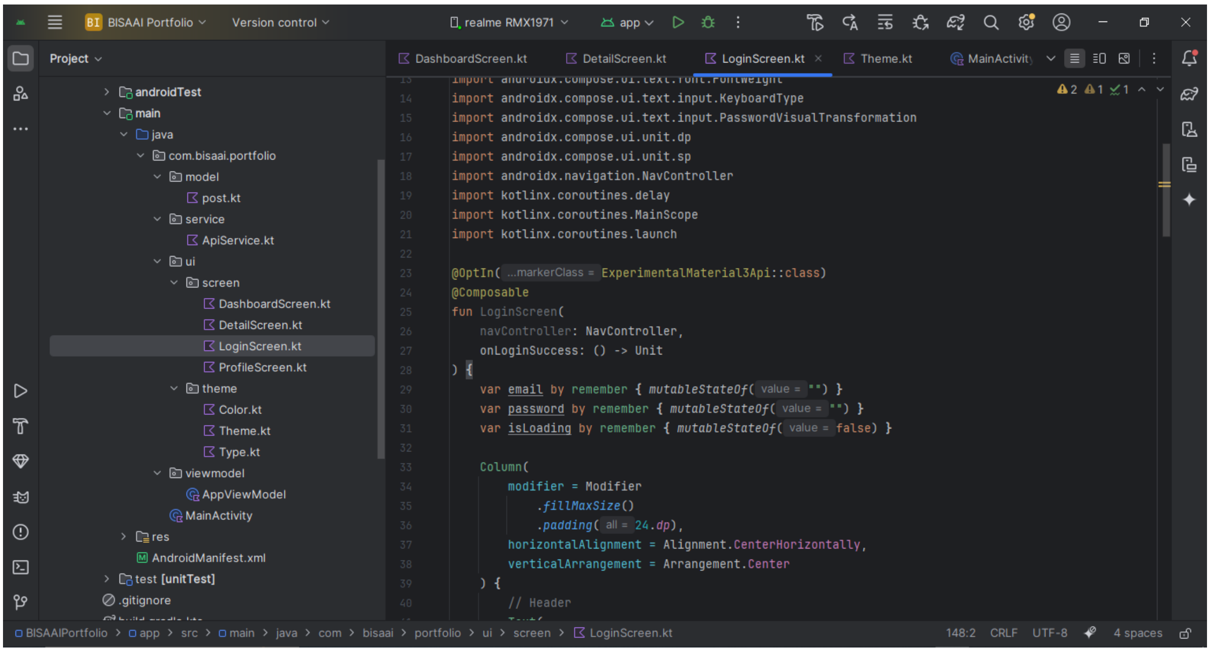
```kotlin
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.text.style.TextOverflow
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.navigation.NavController
import com.bisaai.portfolio.viewmodel.AppViewModel

@OptIn( ...markerClass = ExperimentalMaterial3Api::class)
@Composable
fun DashboardScreen(
    navController: NavController,
    viewModel: AppViewModel
) {
    val posts by viewModel.posts.collectAsState()
    val isLoading by viewModel.isLoading.collectAsState()
    val error by viewModel.error.collectAsState()

    Scaffold(
        topBar = {
            CenterAlignedTopAppBar(
                title = { Text( text = "BISA AI Dashboard") },
                navigationIcon = {
                    IconButton(onClick = { navController.popBackStack() }) {
                        Icon( imageVector = Icons.Default.~~ArrowBack~~, contentDescription = "Back")
                    }
                },
                actions = {
                    IconButton(onClick = { navController.navigate( route = "profile") }) {
```

Halaman screen/DetailScreen.kt:



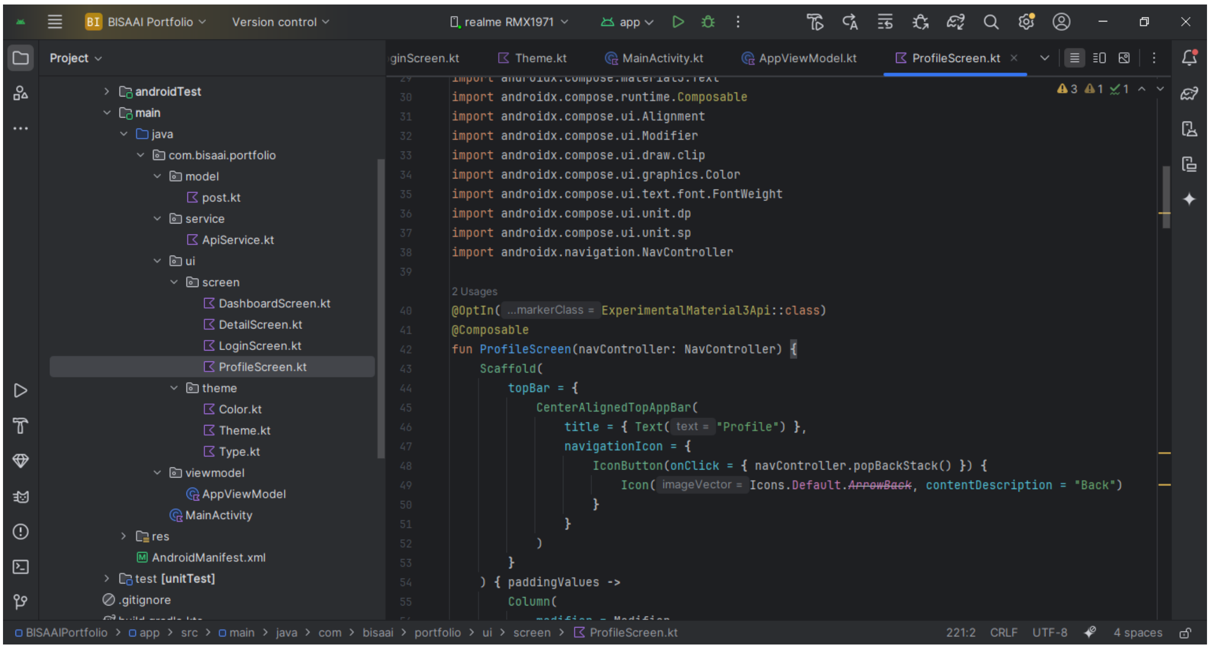
```kotlin
package com.bisaai.portfolio.ui.screens

import androidx.compose.foundation.layout.*
import androidx.compose.foundation.rememberScrollState
import androidx.compose.foundation.verticalScroll
import androidx.compose.material.icons.Icons
import androidx.compose.material.icons.filled.ArrowBack
import androidx.compose.material3.*
import androidx.compose.runtime.Composable
import androidx.compose.runtime.LaunchedEffect
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.navigation.NavController
import com.bisaai.portfolio.viewmodel.AppViewModel

@OptIn( ...markerClass = ExperimentalMaterial3Api::class)
@Composable
fun DetailScreen(
    postId: Int,
    navController: NavController,
    viewModel: AppViewModel
) {
    LaunchedEffect( key1 = postId) {
        // Fetch data if needed
    }
```

Halaman screen/Loginscreen.kt:



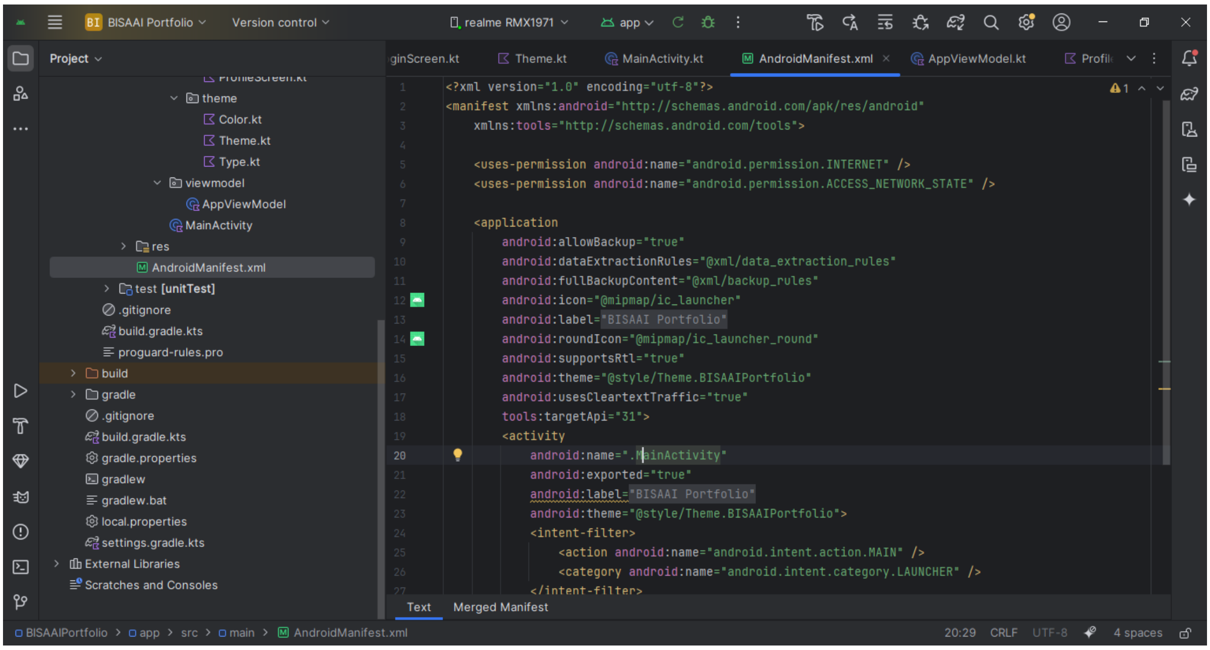
```kotlin
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.text.input.KeyboardType
import androidx.compose.ui.text.input.PasswordVisualTransformation
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.navigation.NavController
import kotlinx.coroutines.delay
import kotlinx.coroutines.MainScope
import kotlinx.coroutines.launch

@OptIn( ...markerClass = ExperimentalMaterial3Api::class)
@Composable
fun LoginScreen(
    navController: NavController,
    onLoginSuccess: () -> Unit
) {
    var email by remember { mutableStateOf( value = "") }
    var password by remember { mutableStateOf( value = "") }
    var isLoading by remember { mutableStateOf( value = false) }

    Column(
        modifier = Modifier
            .fillMaxSize()
            .padding( all = 24.dp),
        horizontalAlignment = Alignment.CenterHorizontally,
        verticalArrangement = Arrangement.Center
    ) {
        // Header
```

Halaman Screen/ProfileScreen.kt:



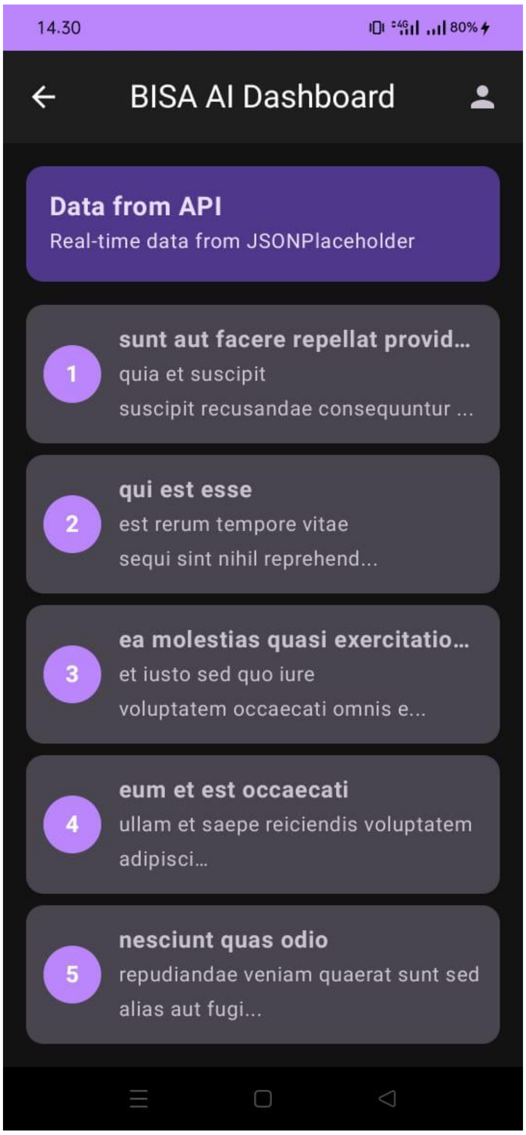
```kotlin
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.draw.clip
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.navigation.NavController

2 Usages
@OptIn( ...markerClass = ExperimentalMaterial3Api::class)
@Composable
fun ProfileScreen(navController: NavController) {
    Scaffold(
        topBar = {
            CenterAlignedTopAppBar(
                title = { Text( text = "Profile") },
                navigationIcon = {
                    IconButton(onClick = { navController.popBackStack() }) {
                        Icon( imageVector = Icons.Default.~~ArrowBack~~, contentDescription = "Back")
                    }
                }
            )
        }
    ) { paddingValues ->
        Column(
```

7. Isi AndroidManifest.xml:



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

    <uses-permission android:name="android.permission.INTERNET" />
    <uses-permission android:name="android.permission.ACCESS_NETWORK_STATE" />

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="BISAAI Portfolio"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.BISAAIPortfolio"
        android:usesCleartextTraffic="true"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true"
            android:label="BISAAI Portfolio"
            android:theme="@style/Theme.BISAAIPortfolio">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
```

Hasil test:


14.30 80%

BISA AI Dashboard

Data from API
Real-time data from JSONPlaceholder

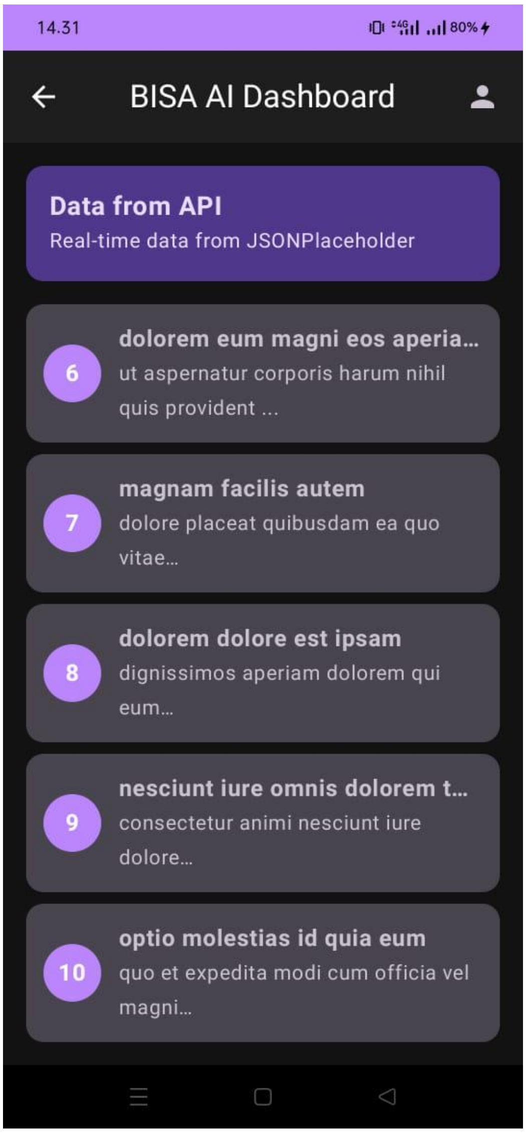
1 **sunt aut facere repellat provid...**
quia et suscipit
suscipit recusandae consequuntur ...

2 **qui est esse**
est rerum tempore vitae
sequi sint nihil reprehend...

3 **ea molestias quasi exercitatio...**
et iusto sed quo iure
voluptatem occaecati omnis e...

4 **eum et est occaecati**
ullam et saepe reiciendis voluptatem
adipisci...

5 **nesciunt quas odio**
repudiandae veniam quaerat sunt sed
alias aut fugi...


14.31 80%

BISA AI Dashboard

Data from API
Real-time data from JSONPlaceholder

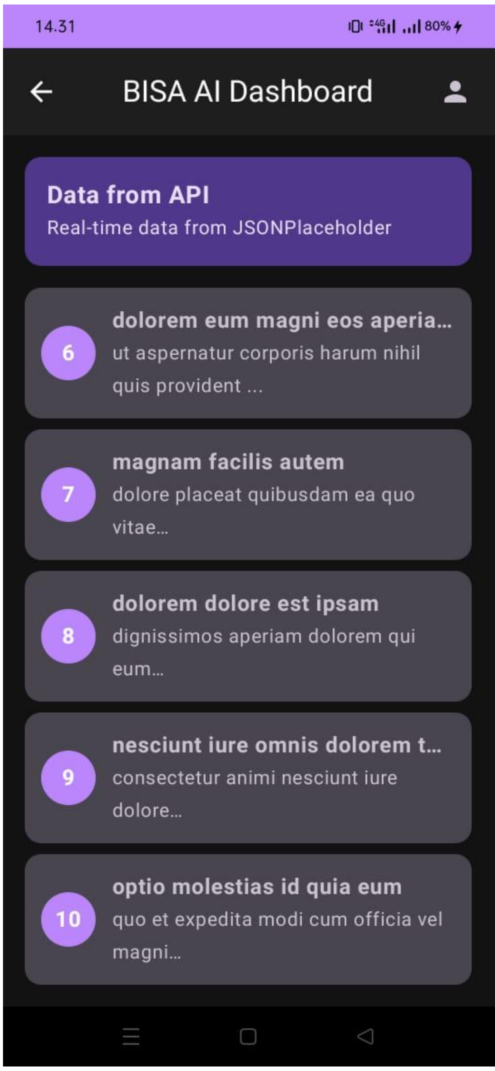
6 **dolorem eum magni eos aperia...**
ut aspernatur corporis harum nihil
quis provident ...

7 **magnam facilis autem**
dolore placeat quibusdam ea quo
vitae...

8 **dolorem dolore est ipsam**
dignissimos aperiam dolorem qui
eum...

9 **nesciunt iure omnis dolorem t...**
consectetur animi nesciunt iure
dolore...

10 **optio molestias id quia eum**
quo et expedita modi cum officia vel
magni...



14.31 80%

BISA AI Dashboard

Data from API
Real-time data from JSONPlaceholder

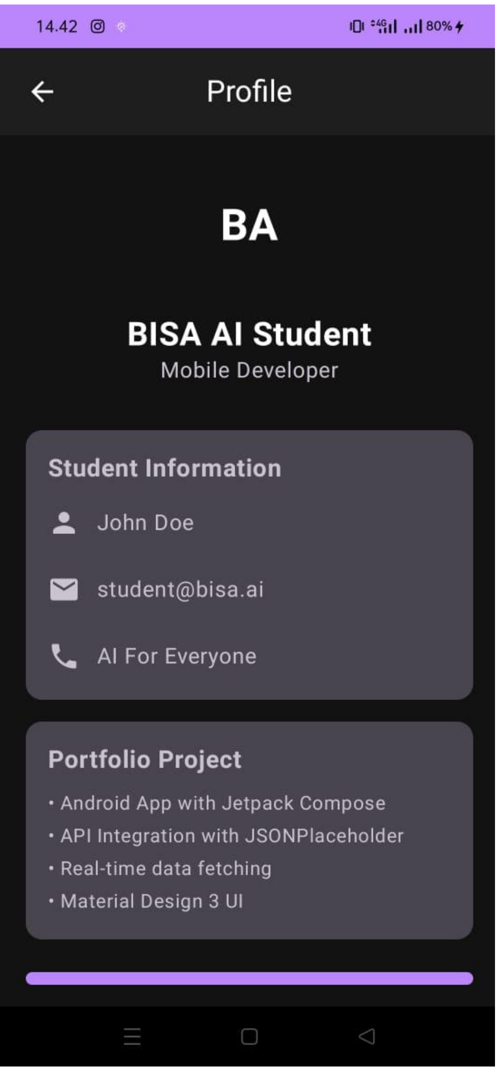
6 **dolorem eum magni eos aperia...**
ut aspernatur corporis harum nihil quis provident ...

7 **magnam facilis autem**
dolore placeat quibusdam ea quo vitae...

8 **dolorem dolore est ipsam**
dignissimos aperiam dolorem qui eum...

9 **nesciunt iure omnis dolorem t...**
consectetur animi nesciunt iure dolore...

10 **optio molestias id quia eum**
quo et expedita modi cum officia vel magni...



14.42 80%

Profile

BA

BISA AI Student
Mobile Developer

Student Information

John Doe

student@bisa.ai

AI For Everyone

Portfolio Project

- Android App with Jetpack Compose
- API Integration with JSONPlaceholder
- Real-time data fetching
- Material Design 3 UI