

Eco rutas (Compose)

## 1) Crear proyecto Compose

Sin código. Usa plantilla Empty Compose Activity.

## 2) Gradle (raíz)

**settings.gradle.kts**

```
rootProject.name = "EcoRutas"  
include(":app")
```

**build.gradle.kts**

```
plugins {  
    id("com.android.application") version "8.6.1" apply false  
    id("org.jetbrains.kotlin.android") version "2.0.20" apply false  
}
```

**gradle.properties**

```
org.gradle.jvmargs=-Xmx2g -Dfile.encoding=UTF-8  
android.useAndroidX=true  
kotlin.code.style=official
```

## 3) Módulo **app** con Compose

**app/build.gradle.kts**

```
plugins {  
    id("com.android.application")  
    id("org.jetbrains.kotlin.android")
```

```

}

android {
    namespace = "com.ifcd61.ecorutas"
    compileSdk = 35

    defaultConfig {
        applicationId = "com.ifcd61.ecorutas"
        minSdk = 24
        targetSdk = 35
        versionCode = 1
        versionName = "0.1.0"
        vectorDrawables { useSupportLibrary = true }
    }

    buildTypes { release { isMinifyEnabled = false } }

    buildFeatures { compose = true }
    composeOptions { kotlinCompilerExtensionVersion = "1.5.15" }
}

dependencies {
    val bom = platform("androidx.compose:compose-bom:2024.10.01")
    implementation(bom); androidTestImplementation(bom)

    implementation("androidx.activity:activity-compose:1.9.2")
    implementation("androidx.compose.ui:ui")
    implementation("androidx.compose.material3:material3")
    implementation("androidx.compose.ui:ui-tooling-preview")
    debugImplementation("androidx.compose.ui:ui-tooling")

    implementation("androidx.navigation:navigation-compose:2.8.2")
    implementation("androidx.lifecycle:lifecycle-runtime-compose:2.8.6")
}

```

## 4) Manifest y recursos

**app/src/main/AndroidManifest.xml**

```

<manifest package="com.ifcd61.ecorutas"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <application
        android:name=".EcoRutasApp"

```

```
        android:label="@string/app_name"
        android:theme="@style/Theme.Material3.DayNight.NoActionBar">
<activity android:name=".MainActivity" android:exported="true">
    <intent-filter>
        <action android:name="android.intent.action.MAIN"/>
        <category android:name="android.intent.category.LAUNCHER"/>
    </intent-filter>
</activity>
</application>
</manifest>
```

**app/src/main/res/values/strings.xml**

```
<resources>
    <string name="app_name">Eco Rutas</string>
</resources>
```

## 5) Estructura de paquetes

Crea carpetas:

```
app/src/main/java/com/ifcd61/ecorutas/
├── nav/
├── ui/screens/
├── ui/theme/
└── data/
```

## 6) Clases mínimas

**EcoRutasApp.kt**

```
package com.ifcd61.ecorutas
import android.app.Application
class EcoRutasApp : Application()
```

## MainActivity.kt

```
package com.ifcd61.ecorutas
import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import com.ifcd61.ecorutas.nav.AppNav
import com.ifcd61.ecorutas.ui.theme.AppTheme

class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContent { AppTheme { AppNav() } }
    }
}
```

## nav/AppNav.kt

```
package com.ifcd61.ecorutas.nav
import androidx.compose.material3.Scaffold
import androidx.compose.runtime.Composable
import androidx.navigation.compose.NavHost
import androidx.navigation.compose.composable
import androidx.navigation.compose.rememberNavController
import com.ifcd61.ecorutas.ui.screens.DetailScreen
import com.ifcd61.ecorutas.ui.screens.ListScreen
import com.ifcd61.ecorutas.ui.screens.SettingsScreen

object Routes { const val LIST="list"; const val DETAIL="detail"; const val
SETTINGS="settings" }

@Composable
fun AppNav() {
    val nav = rememberNavController()
    Scaffold { padding ->
        NavHost(navController = nav, startDestination = Routes.LIST) {
            composable(Routes.LIST) { ListScreen(padding, nav) }
            composable(Routes.DETAIL) { DetailScreen(padding, nav) }
            composable(Routes.SETTINGS) { SettingsScreen(padding, nav) }
        }
    }
}
```

## ui/screens/ListScreen.kt

```
package com.ifcd61.ecorutas.ui.screens
import androidx.compose.foundation.layout.PaddingValues
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.navigation.NavController

@Composable
fun ListScreen(padding: PaddingValues, nav: NavController) {
    Text("Lista")
}
```

## ui/screens/DetailScreen.kt

```
package com.ifcd61.ecorutas.ui.screens
import androidx.compose.foundation.layout.PaddingValues
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.navigation.NavController

@Composable
fun DetailScreen(padding: PaddingValues, nav: NavController) {
    Text("Detalle")
}
```

## ui/screens/SettingsScreen.kt

```
package com.ifcd61.ecorutas.ui.screens
import androidx.compose.foundation.layout.PaddingValues
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.navigation.NavController

@Composable
fun SettingsScreen(padding: PaddingValues, nav: NavController) {
    Text("Ajustes")
}
```

## ui/theme/Theme.kt

```
package com.ifcd61.ecorutas.ui.theme
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.lightColorScheme
import androidx.compose.runtime.Composable

private val scheme = lightColorScheme()

@Composable
fun AppTheme(content: @Composable () -> Unit) {
    MaterialTheme(colorScheme = scheme, content = content)
}
```

#### data/RouteModel.kt

```
package com.ifcd61.ecorutas.data
data class RouteModel(
    val id: String,
    val name: String,
    val distanceKm: Double,
    val difficulty: String,
    val favorite: Boolean
)
```

## 7) Ejecutar

Sin código adicional. Sync Gradle → Run.