**Jetpack Compose (Modern UI Toolkit)**

Jetpack Compose is **Google’s modern UI toolkit** that **replaces XML layouts** and simplifies UI development using a declarative approach.

**How to Enable Jetpack Compose?**

✅ **Step 1:** Add Jetpack Compose dependencies in build.gradle

android {

buildFeatures {

compose true

}

}

dependencies {

implementation "androidx.compose.ui:ui:1.5.0"

implementation "androidx.compose.material:material:1.5.0"

implementation "androidx.compose.ui:ui-tooling-preview:1.5.0"

}

**Creating a RecyclerView Equivalent in Jetpack Compose**

@Composable

fun UserItem(user: User) {

Column(

modifier = Modifier

.fillMaxWidth()

.padding(16.dp)

) {

Text(text = user.name, fontSize = 20.sp, fontWeight = FontWeight.Bold)

Text(text = "Age: ${user.age}", fontSize = 16.sp)

}

}

@Composable

fun UserList(users: List<User>) {

LazyColumn {

items(users) { user ->

UserItem(user)

}

}

}

@Composable

fun MainScreen() {

val users = listOf(

User("Alex", 23),

User("Daniel", 25),

User("Emma", 28)

)

UserList(users)

}

class MainActivity : ComponentActivity() {

override fun onCreate(savedInstanceState: Bundle?) {

super.onCreate(savedInstanceState)

setContent {

MainScreen()

}

}

}

📌 **Jetpack Compose replaces RecyclerView with LazyColumn for better performance!** 🚀