

Varias dependencias juntas(faltan room y data store)

Ud9.4

4.1.- Add dependencies

After creating the project, it's necessary to add the required dependencies. For this example, the dependencies for navigation, serialization, extended icons, and livedata

- `libs.versions.toml`

- **[version] section:**

```
1 | navigation = "2.8.5"
2 | serialization = "1.6.3"
3 | runtimeLivedata = "1.7.6"
```

- **[libraries] section:**

```
1 | androidx-navigation = { group = "androidx.navigation", name = "navigation-compose", version.ref = "navigation" }
2 | kotlin-serialization-json = { group = "org.jetbrains.kotlin", name = "kotlin-serialization-json", version.ref = "serialization" }
3 | androidx-material-icons = { group = "androidx.compose.material", name = "material-icons-extended" }
4 | androidx-runtime-livedata = { group = "androidx.compose.runtime", name = "runtime-livedata", version.ref = "runtimeLivedata" }
```

- **[plugins] section:**

```
1 | kotlin-serialization = { id = "org.jetbrains.kotlin.plugin.serialization", version.ref = "kotlin" }
```

- `build.gradle.kts (Module: app)`

- **plugins section:**

```
1 | alias(libs.plugins.kotlin.serialization)
```

- **dependencies section:**

```
1 | implementation(libs.androidx.navigation)
2 | implementation(libs.kotlin.serialization.json)
3 | implementation(libs.androidx.material.icons)
4 | implementation(libs.androidx.runtime.livedata)
```

Para poder usar navigation

Está en la unidad 8 importante importar todo eso

To implement navigation with Jetpack Compose, you must add the following dependency:

- `libs.versions.toml`

- **[version] section**

```
1 | navigation = "2.8.5"
2 | serialization = "1.6.3"
```

- **[libraries] section**

```
1 | androidx-navigation = { group = "androidx.navigation", name = "navigation-compose", version.ref="navigation" }
2 | kotlin-serialization-json = { module = "org.jetbrains.kotlinx:kotlin-serialization-json", version.ref = "serialization" }
```

- **[plugins] section.**

```
1 | kotlin-serialization = { id = "org.jetbrains.kotlin.plugin.serialization", version.ref = "kotlin" }
```

- `build.gradle.kts (Module:app)`

- **Plugins section:**

```
1 | alias(libs.plugins.kotlin.serialization)
```

- **Dependencies section:**

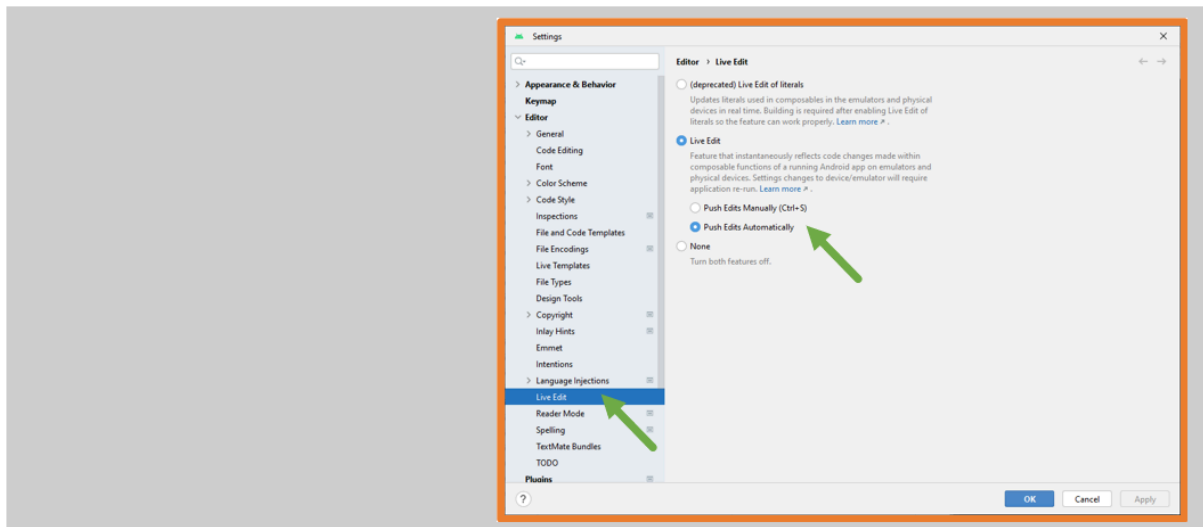
```
1 | implementation(libs.androidx.navigation)
2 | implementation(libs.kotlin.serialization.json)
```

Actualizar cambios automaticamente


9.3.- Live Edit

To automatically update changes in the emulator, configure Android Studio's **Live Edit** option.

File -> Settings (CONTROL+ALT+S)



Cambiar la aplicación de orientación

allow orientation changes. To achieve this, add the following property to the **Activity** in the  **AndroidManifest.xml**



Para añadir acción a cualquier elemento

```
modifier = Modifier
    .clickable {
        println(";Se hizo clic!")
    }
```

Añadir dependencia para los iconos

With the **Icons** class, you can use system icons.

The usual scenario is using *Material Design* vector icons.

Android Studio only includes some icons by default. If you need the entire icon set, add the following dependency in:

- `libs.versions.toml` [*libraries*] section,

```
1 | androidx-material-icons-extended = { group = "androidx.compose.material", name = "material-icons-extended" }
```

- `build.gradle.kts` (Module: app) and synchronize:

```
1 | implementation(libs.androidx.material.icons.extended)
```

Iconos e imágenes

```
Image(
    painter = painterResource(id = R.drawable.logo),
    contentDescription = "Rick",
    modifier = Modifier.size(48.dp)
)

Icon(
    painter = painterResource(id = R.drawable.logo),
    contentDescription = "Icono Rick",
    modifier = Modifier.size(48.dp)
)

Icon(
    imageVector = Icons.Rounded.AccountCircle,
    contentDescription = "Play"
)
```



```
Icon(
    imageVector = Icons.Default.PlayArrow,
    contentDescription = "Play",
    tint = Color.Red
)
```

Variables normales

```
var quantity by rememberSaveable { mutableStateOf( value: 0) }  
quantity++
```

Introducción de datos

```
var textFieldValue by rememberSaveable { mutableStateOf( value: "") }  
TextField(  
    value = textFieldValue,  
    onChange = { textFieldValue = it }  
)
```

Activar o desactivar un botón:

```
Button(  
    onClick = { /*TODO*/ },  
    enabled = nameField.isNotEmpty() && passwordField.isNotEmpty()  
) { this: RowScope  
    Text( text: "Entrar")  
}
```



Drop down menu

```
var classes = listOf("Bárbaro", "Bardo", "Brujo", "Clérigo",  
"Druida", "Explorador", "Guerrero", "Hechicero", "Mago", "Monje",  
"Paladín", "Pícaro") var showMenu by rememberSaveable {  
mutableStateOf(false) } var selectedOptionText by  
rememberSaveable() { mutableStateOf("Selecciona una clase") }  
ExposedDropDownMenuBox( expanded = showMenu, onExpandedChange =  
{showMenu = !showMenu}) { OutlinedTextField( modifier =  
Modifier.menuAnchor(), value = selectedOptionText, onValueChange =  
{}, label = { Text(text = "Clase")}, trailingIcon = {  
ExposedDropDownMenuDefaults.TrailingIcon(expanded = showMenu) } )  
ExposedDropDownMenu(expanded = showMenu, onDismissRequest = {  
showMenu = false }) { classes.forEach(){ option ->  
DropDownMenuItem( text = { Text(option) }, onClick = {  
selectedOptionText = option showMenu = false }) } } }
```

```

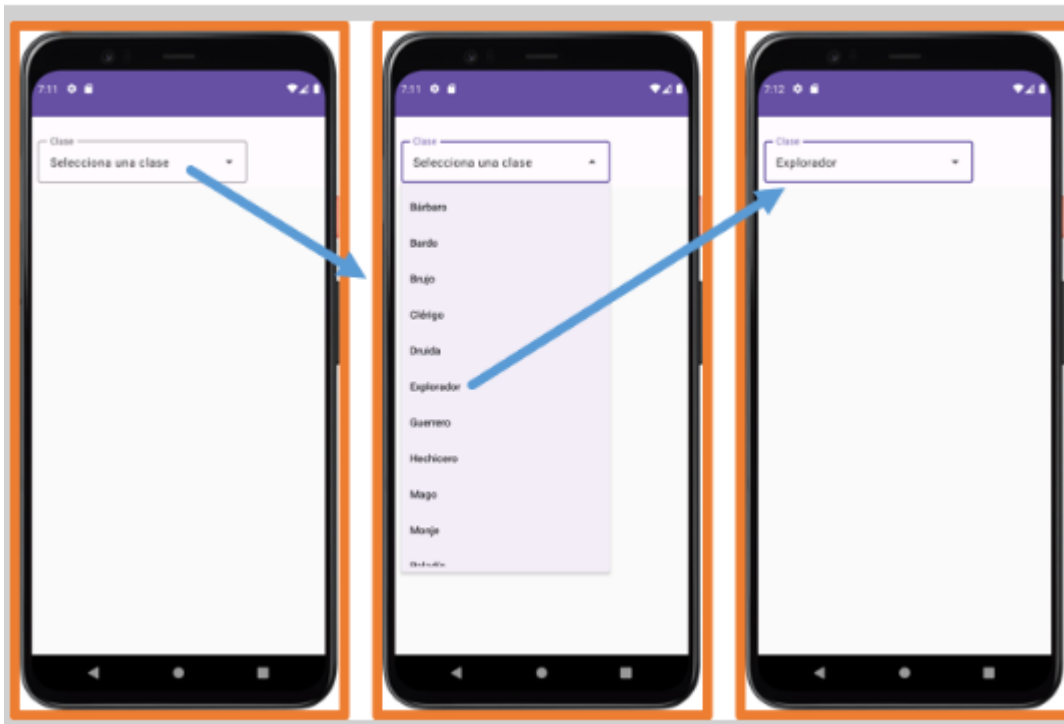
var classes = listOf("Bárbaro", "Bardo", "Brujo", "Clérigo", "Druida", "Explorador",
    "Guerrero", "Hechicero", "Mago", "Monje", "Paladín", "Pícaro")

var showMenu by rememberSaveable {
    mutableStateOf(false)
}

var selectedOptionText by rememberSaveable() {
    mutableStateOf("Selecciona una clase")
}

ExposedDropdownMenuBox(
    expanded = showMenu,
    onExpandedChange = {showMenu = !showMenu}) {
    OutlinedTextField(
        modifier = Modifier.menuAnchor(),
        value = selectedOptionText,
        onValueChange = {},
        label = { Text(text = "Clase")},
        trailingIcon = { ExposedDropdownMenuDefaults.TrailingIcon(expanded = showMenu)}
    )
    ExposedDropdownMenu(expanded = showMenu, onDismissRequest = { showMenu = false }) {
        classes.forEach(){ option ->
            DropdownMenuItem(
                text = { Text(option) },
                onClick = {
                    selectedOptionText = option
                    showMenu = false
                })
        }
    }
}

```



Centrar cosas en un row

```
Row(  
    horizontalArrangement = Arrangement.SpaceEvenly, // Espacio uniforme entre los botones  
    verticalAlignment = Alignment.CenterVertically, // Centra los botones verticalmente  
    modifier = Modifier.fillMaxWidth() // Hace que el Row ocupe todo el ancho disponible  
) {  
    Button(onClick = { /* Acción del botón 1 */ }) {  
        Text("Botón 1")  
    }  
    Button(onClick = { /* Acción del botón 2 */ }) {  
        Text("Botón 2")  
    }  
    Button(onClick = { /* Acción del botón 3 */ }) {  
        Text("Botón 3")  
    }  
}
```

Centrar cosas en un column

```
Column(  
    verticalArrangement = Arrangement.SpaceEvenly,  
    modifier = Modifier.fillMaxHeight()  
) {  
    Text("Elemento 1")  
    Text("Elemento 2")  
    Text("Elemento 3")  
}
```

Snack bar es un mensaje temporal, acuerdate si lo piden está en la unidad 7

Live Data

En el view model:

```
// Lista de libros
private val _books = MutableLiveData<List<Book>>()
val books: LiveData<List<Book>> = _books

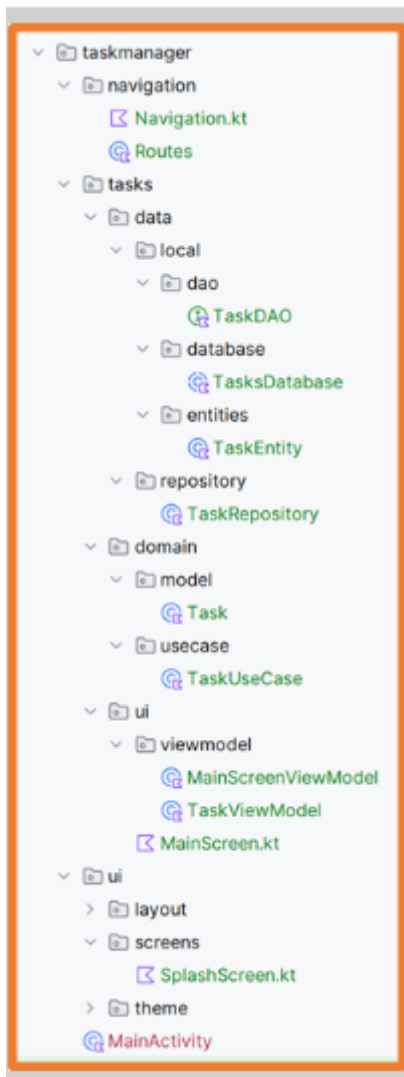
// Libro seleccionado
private val _selectedBook = MutableLiveData<Book>()
val selectedBook: LiveData<Book> = _selectedBook

// Variable para indicar que se están obteniendo los datos del repositorio
private var _isLoading = MutableLiveData<Boolean>()
val isLoading: LiveData<Boolean> = _isLoading
```

La suscripción en el composable

```
// Suscripción a la lista de libros del ViewModel
val books: List<Book> by bookViewModel.books.observeAsState(initial = emptyList())
// Suscripción a la variable que indica si se están consiguiendo la lista de libros
val isLoadingBooks: Boolean by bookViewModel.isLoading.observeAsState(initial = false)
```

Esto son puntitos



vista vistamodelo usecase dao vistamodelo vista