

# UI Building Blocks

Group members : \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,

## 1 Part 1

### 1.1 exercise 1 [my first UI Component]

write a composable function named as `CoffeCounter` and display it on the preview .

### Code Input Section

```
1 .
2 .
3 .
4 .
5 .
6 .
7 .
```

### 1.2 exercise 2 [First UI Block]

The **Coffee Counter** is a UI component that tracks and represents the number of coffees a user drinks. This UI component contains:

- Title: Coffee Counter
- Counter: A text field to display the current number of coffees consumed.
- Button: A button that allows the user to increase the coffee counter.

### Code Input Section

```
1 .
2 .
3 .
4 .
5 .
6 .
7 .
8 .
```

### 1.3 exercise 3 [Playing with Modifier]

To make the Coffee Counter stand out more in its design, we should increase the size of the counter text compared to the title and center-align it.

### Code Input Section

```
1 .
2 .
3 .
4 .
5 .
6 .
7 .
8 .
9 .
10 .
```

## 1.4 exercise 4 [Launch Coffee Counter]

To use the Coffee Counter, we need to integrate it into the `MainActivity`. Place the Coffee Counter inside a `Scaffold` within the `MainActivity` to enable its usage.

### Code Input Section

```
1 class MainActivity : ComponentActivity() {
2     override fun onCreate(savedInstanceState: Bundle?) {
3         super.onCreate(savedInstanceState)
4         setContent {
5             CoffeeCounterTheme {
6                 Surface(
7                     modifier = Modifier.fillMaxSize(),
8                     color = MaterialTheme.colorScheme.background
9                 ) {
10                    Scaffold(){
11                        // call your UI Composable here
12                        .
13                        .
14                        .
15                    }
16                }
17            }
18        }
19    }
20 }
21 }
22 }
```

## 2 Part 2

### 2.1 exercise 1

As a developer, you have received a design - file figure 1 - , detailing the UI screen for a Teacher application that displays the student list. Your task is to implement this screen using the Jetpack Compose framework in Android native development. Within this scaffold, describe the components of the screen.

### Code Input Section

```

1 // Type your composable code here
2 @Composable
3 fun StudentListScreen(){
4
5
6
7
8
9 }

```

### 2.2 exercise 2

the students kind app has a component called Specialities List , this later allow user to filter the students list according to their speciality . write the UI script of this component

### Code Input Section

```

1 // Type your composable code here
2 @Composable
3 fun SpecialityEntry(){
4
5
6
7
8
9
10 }

```



Figure 1: Design file