

TUGAS Pertemuan #11

Flutter – Navigation: TabBar Widget



Pemrograman Bergerak

(Mobile Programming)

SIF

Dosen:

Dr. Habibullah Akbar, PhD.

~ ~ ~

Nanang Wijaya Kusuma

1202922001

Flutter & Dart

Navigation : TabBar ([GitHub Link](#))

1. Setting up TabBar in Flutter

The minimal code to get TabBar up and running:

```
DefaultTabController(  
  length: 3,  
  child: Scaffold(  
    appBar: AppBar(  
      bottom: TabBar(  
        tabs: [  
          Tab(text: 'Home', icon: Icon(Icons.home_outlined)),  
          Tab(text: 'Counter', icon: Icon(Icons.call_to_action_outlined)),  
          Tab(text: 'BMI-Calc', icon: Icon(Icons.calculate_outlined)),  
        ],  
      ),  
      title: Text('Tabs Demo'),  
    ),  
    body: TabBarView(  
      children: <Widget>[  
        Center(child: HomePage()),  
        Center(child: ClickCounter()),  
        Center(child: BMIPage()),  
      ],  
    ),  
  ),  
);
```

To implement TabBar in Flutter app:

- Wrap the Scaffold widget inside the **DefaultTabController**. This should be used for most simple use cases, to control the tabs programmatically use **TabController** instead and avoid this step.
- Place the **TabBar** widget as the **bottom** property of **AppBar**.
- Provide **TabBarView** in the **body** property of the **Scaffold**. **TabBarView** is like **PageView**, which is used mostly with **TabBar** because it shows the widget based on the currently selected tab.

2. Customize the tab indicator in TabBar

The tab indicator in TabBar can be modified to customize the look and feel of the Flutter app.

Color, size/width, weight/thickness

```
TabBar(  
  indicatorColor: Colors.amberAccent,  
  indicatorSize: TabBarIndicatorSize.label,  
  indicatorWeight: 10,  
  tabs: [  
    ...  
  ],  
)
```

- To alter the color of the tab indicator, use the **indicatorColor** property.
- To change the size (width) of the tab indicator, use the **indicatorSize** property. The default value is **TabBarIndicatorSize.tab** which will take up the space necessarily needed for the tab width accordingly to the number/length of the tabs. In the example above, **TabBarIndicatorSize.label** will make the indicator size/width equal to the size/width of the label or icon.
- To change the weight (thickness) of the tab indicator, use **indicatorWeight** property.

Customize the shape and background color

```
TabBar(  
  indicator: BoxDecoration(  
    borderRadius: BorderRadius.circular(50), // Creates a rounded box  
    color: Colors.greenAccent), //Change the background color  
)
```

The **indicator** property has a **dynamic** type which will accept any kind of **Decoration** value, **BoxDecoration** for example.

3. Making scrollable tabs with TabBar

Let's say an app has a lot of categories that couldn't fit horizontally in a device width, then a horizontally scrollable tabs is one of the solutions.

```
TabBar(  
  isScrollable: true,  
  tabs: [  
    ...  
  ],  
)
```

The **TabBar** widget has a property dedicated to configuring horizontally scrollable tabs. Set the **isScrollable** property to **True**, and the job is done. It has to be explicitly set, because its default value is **False**.