



Desenvolvimento  
Mobile 2  
Aula 04

Prof. Me Daniel Vieira

**SENAI**

# Agenda

1- Navigator Bar

2 - Exemplo

3-Check Box

4- Exemplo

5 - Radio Button

6 - Exemplo

7 - Exercícios

# App Navigator Bar

```
lib > main.dart > BottomNavigatorState > _widgetOptions
1 import 'package:flutter/material.dart';
2
3 void main() {
4   runApp(BottomNav());
5 }
6
7 class BottomNav extends StatelessWidget {
8   const BottomNav({super.key});
9
10  @override
11  Widget build(BuildContext context) {
12    return MaterialApp(
13      home: BottomNavigator(),
14    ); // MaterialApp
15  }
16}
17
18 class BottomNavigator extends StatefulWidget {
19   //const BottomNavigator({super.key});
20
21   @override
22   State<BottomNavigator> createState() => BottomNavigatorState();
23 }
24
25 class BottomNavigatorState extends State<BottomNavigator> {
26   int selectedIndex = 0;
27   static const TextStyle optionStyle =
28     TextStyle(fontSize: 30, fontWeight: FontWeight.bold);
29   static const List<Widget> _widgetOptions = <Widget>[
30
```



# App Navigator Bar

```
int selectedIndex = 0;
static const TextStyle optionStyle =
TextStyle(fontSize: 30, fontWeight: FontWeight.bold);
static const List<Widget> _widgetOptions = <Widget>[

Text(
    'Index 0: School',
    style: optionStyle,
), // Text
// Tela1() ,
Text(
    'Index 1: Business',
    style: optionStyle,
), // Text

Text(
    'Index 2: School',
    style: optionStyle,
), // Text
Text(
    'Index 3: Settings',
    style: optionStyle,
), // Text

]; // <Widget>[]
```



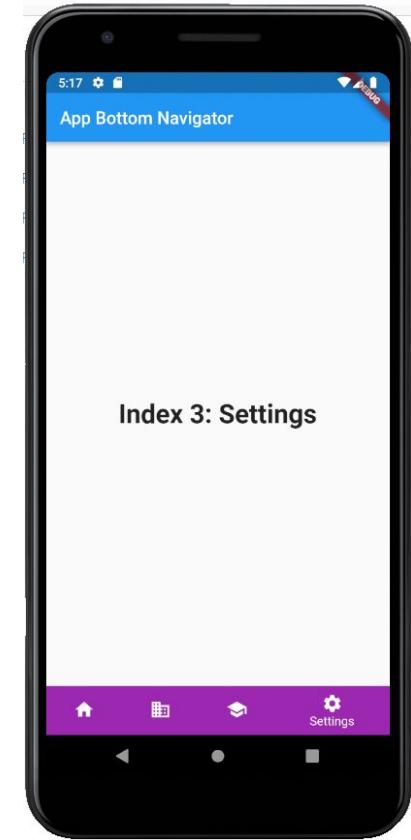
# App Navigator Bar

```
void onItemClickTapped(int index) {  
    setState(() {  
        selectedIndex = index;  
  
    });  
}
```



# App Navigator Bar

```
@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
      title: Text("App Bottom Navigator"),
    ), // AppBar
    body: Center(
      child: _widgetOptions.elementAt(selectIndex),
    ), // Center
    bottomNavigationBar: BottomNavigationBar(
      items: const <BottomNavigationBarItem>[
        BottomNavigationBarItem(
          icon: Icon(Icons.home),
          label: 'Home',
          backgroundColor: Colors.red,
        ), // BottomNavigationBarItem
        BottomNavigationBarItem(
          icon: Icon(Icons.business),
          label: 'Business',
          backgroundColor: Colors.blue,
        ), // BottomNavigationBarItem
        BottomNavigationBarItem(
          icon: Icon(Icons.school),
          label: 'School',
          backgroundColor: Colors.orange,
        ), // BottomNavigationBarItem
        BottomNavigationBarItem(
          icon: Icon(Icons.settings),
          label: 'Settings',
          backgroundColor: Colors.purple,
        ), // BottomNavigationBarItem
      ],
    ),
  );
}
```



# App Navigator Bar

```
92         currentIndex: selectedIndex,  
93         selectedItemColor: Colors.white,  
94         onTap: onItemClick,  
95     ), // BottomNavigationBar  
96 ); // Scaffold  
97 }  
98 }
```



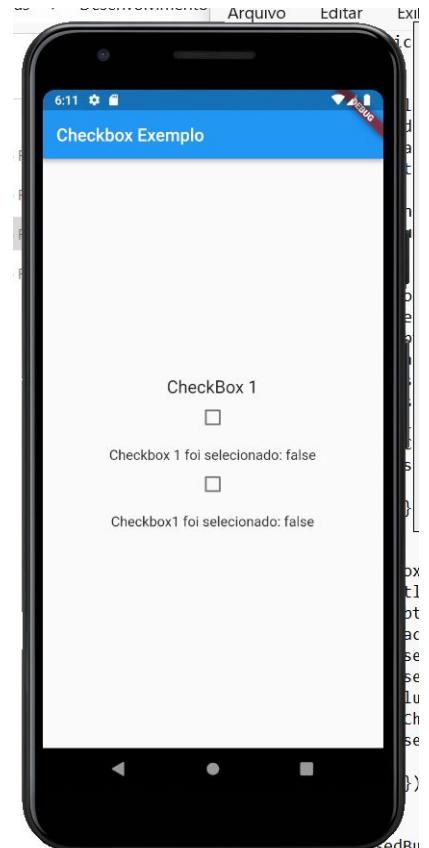
# App Navigator Bar

```
100 class Tela1 extends StatelessWidget {  
101   const Tela1({super.key});  
102  
103   @override  
104   Widget build(BuildContext context) {  
105     return Scaffold(  
106       appBar: AppBar(  
107         title: Text("Home"),  
108       ), // AppBar  
109       body: Column(  
110         mainAxisAlignment: MainAxisAlignment.center,  
111         children: [  
112           Center(  
113             child: Container(color: Colors.red,height: 100,width: 100,  
114               child: Text("Home",style: TextStyle(fontSize: 20,fontWeight: FontWeight.bold),),), // Container  
115             ), // Center  
116             ElevatedButton(onPressed: (){  
117               print("Botao pressionado");  
118             }, child: Text("Mensagem")), // ElevatedButton  
119             ElevatedButton(onPressed: (){  
120  
121               }, child: Text("Alerta")) // ElevatedButton  
122             ],  
123           ), // Column  
124         ); // Scaffold  
125     }  
126   }  
127 }
```



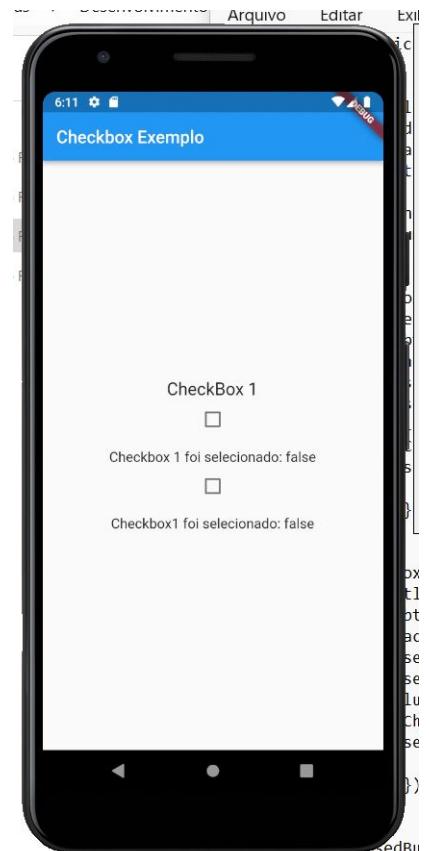
# App CheckBox

```
1 import 'package:flutter/material.dart';
2
3 Run | Debug | Profile
4 void main() {
5   runApp(MyApp());
6 }
7
8 class MyApp extends StatelessWidget {
9   @override
10  Widget build(BuildContext context) {
11    return MaterialApp(
12      home: Scaffold(
13        appBar: AppBar(
14          title: Text('Checkbox Exemplo'),
15        ), // AppBar
16        body: Center(
17          child: CheckboxExample(),
18          // RadioButtonExample(),
19        ), // Center
20      ), // Scaffold
21    ); // MaterialApp
22 }
```



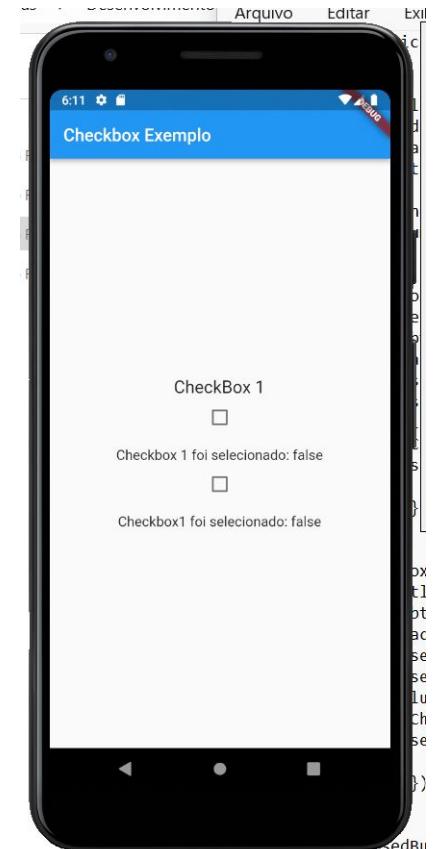
# App CheckBox

```
24 class CheckboxExample extends StatefulWidget {  
25     @override  
26     _CheckboxExampleState createState() => _CheckboxExampleState();  
27 }  
28  
29 class _CheckboxExampleState extends State<CheckboxExample> {  
30     bool _isChecked = false;  
31     bool _isChecked1=false;  
32     void _showMessage() {  
33         ScaffoldMessenger.of(context).showSnackBar(  
34             SnackBar(  
35                 content: Text('Checkbox was pressed'),  
36                 duration: Duration(seconds: 2),  
37             ), // Snackbar  
38         );  
39     }  
40  
41     @override  
42     Widget build(BuildContext context) {  
43         return Column(  
44             children: [  
45                 Text("CheckBox 1"),  
46                 Checkbox(value: _isChecked, onChanged: (value) {  
47                     setState(() {  
48                         _isChecked = value;  
49                     });  
50                 }),  
51                 Text("Checkbox 1 foi selecionado: ${_isChecked}"),  
52             ],  
53         );  
54     }  
55 }
```



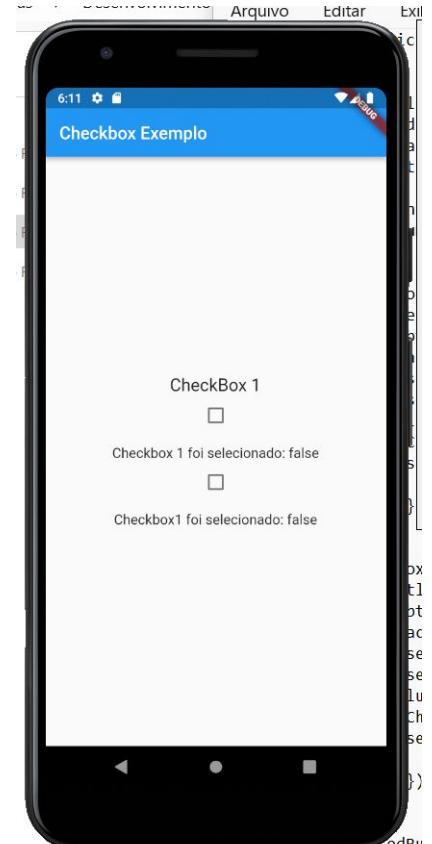
# App CheckBox

```
44     mainAxisAlignment: MainAxisAlignment.center,  
45     children: <Widget>[  
46       Text(  
47         'CheckBox 1',  
48         style: TextStyle(fontSize: 20.0),  
49       ), // Text  
50       //SizedBox(height: 20.0),  
51       Checkbox(  
52         value: _isChecked,  
53         onChanged: (bool? value) {  
54           setState(() {  
55             _isChecked = value!;  
56           });  
57         },  
58       ), // Checkbox  
59       SizedBox(height: 10.0).
```



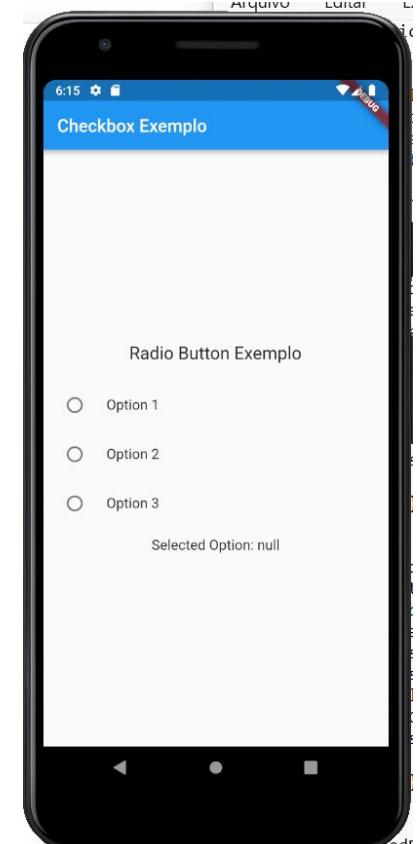
# App CheckBox

```
60      Text(
61        'Checkbox 1 foi selecionado: ${_isChecked}',
62        style: TextStyle(fontSize: 16.0),
63      ), // Text
64      Checkbox(
65        value: _isChecked1,
66        onChanged: (bool? value) {
67          setState(() {
68            _isChecked1 = value!;
69            if(_isChecked1 == true){
70              _showMessage();
71            }
72          });
73        },
74      ), // Checkbox
75      SizedBox(height: 10.0),
76      Text(
77        'Checkbox1 foi selecionado: ${_isChecked1}',
78        style: TextStyle(fontSize: 16.0),
79      ), // Text
```



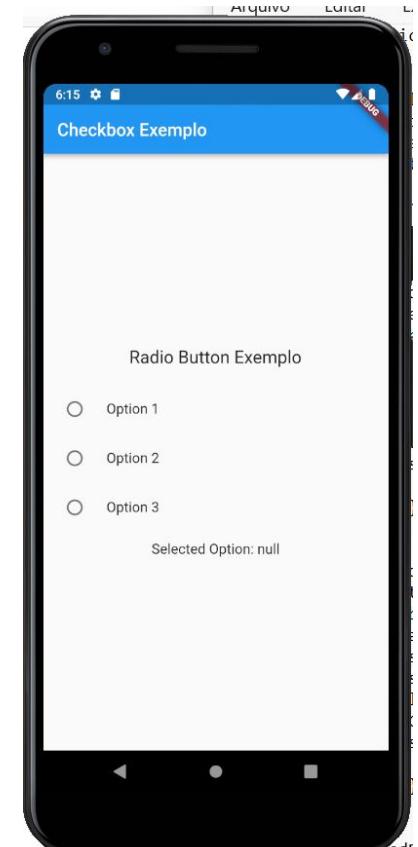
# App Radio button

```
1 import 'package:flutter/material.dart';
2
3 Run | Debug | Profile
4 void main() {
5   runApp(MyApp());
6 }
7
8 class MyApp extends StatelessWidget {
9   @override
10  Widget build(BuildContext context) {
11    return MaterialApp(
12      home: Scaffold(
13        appBar: AppBar(
14          title: Text('Checkbox Exemplo'),
15        ), // AppBar
16        body: Center(
17          child: //CheckboxExample(),
18          RadioButtonExample(),
19        ), // Center
20      ), // Scaffold
21    );
22 }
```



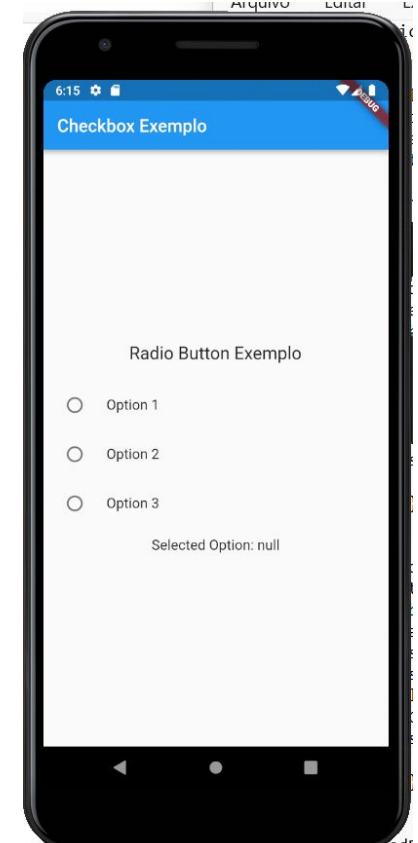
# App Radio button

```
86 class RadioButtonExample extends StatefulWidget {
87     @override
88     _RadioButtonExampleState createState() => _RadioButtonExampleState();
89 }
90
91 class _RadioButtonExampleState extends State<RadioButtonExample> {
92     String? _selectedOption;
93
94     @override
95     Widget build(BuildContext context) {
96         return Column(
97             mainAxisAlignment: MainAxisAlignment.center,
98             children: <Widget>[
99                 Text(
100                     'Radio Button Example',
101                     style: TextStyle(fontSize: 20.0),
102                 ), // Text
103                 SizedBox(height: 20.0),
104                 RadioListTile<String>(
105                     title: Text('Option 1'),
106                     value: 'Option 1'
```



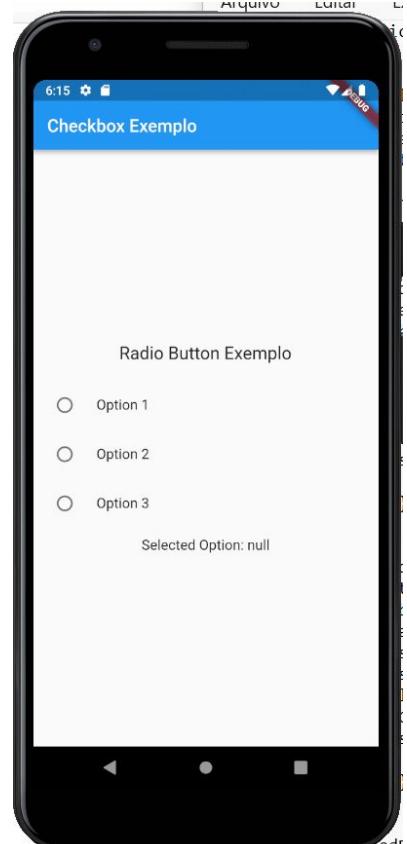
# App Radio button

```
107         groupValue: _selectedOption,  
108         onChanged: (value) {  
109             setState(() {  
110                 _selectedOption = value;  
111             });  
112         },  
113     ), // RadioListTile  
114     RadioListTile<String>(  
115         title: Text('Option 2'),  
116         value: 'Option 2',  
117         groupValue: _selectedOption,  
118         onChanged: (value) {  
119             setState(() {  
120                 _selectedOption = value;  
121             });  
122         },  
123     ), // RadioListTile  
124     RadioListTile<String>(  
125         title: Text('Option 3'),  
126         value: 'Option 3',
```



# App Radio button

```
127     groupValue: _selectedOption,  
128     onChanged: (value) {  
129         setState(() {  
130             _selectedOption = value;  
131         });  
132     },  
133 ), // RadioListTile  
134 SizedBox(height: 10.0),  
135 Text(  
136     'Selected Option: $_selectedOption',  
137     style: TextStyle(fontSize: 16.0),  
138 ), // Text  
139 ], // <Widget>[]  
140 ); // Column  
141 }  
142 }
```



# Exercícios

- 1) Você foi contratado pela empresa SM Mobile para desenvolver um aplicativo utilizando o widget Navigator Bar com 4 opções Indústria, agricultura, saúde, economia. Cada tela deve exibir um conteúdo relacionado ao tema, pode ser texto, imagem, cálculo.
- 2 ) Criar um aplicativo com Navigator Bar e 4 telas com opções de países, em cada tela exibir uma comida típica
- 3) Criar um aplicativo para coleta de informações de um usuário onde o sexo, estado civil devem ser coletados através de um Radio Button
- 4) Criar um aplicativo para realizar cálculos da área do triângulo, área do trapézio, 1º Lei de Ohm. Criar tela de Login e cada cálculo deve ser feito em uma tela diferente

# Exercícios

Subir o código no Git Hub e postar o link nesse forms

[https://docs.google.com/forms/d/1-8wbDS8mrLt58VzhDoL7kDBI77U8lIn3-yV\\_q3Ra63Y/edit](https://docs.google.com/forms/d/1-8wbDS8mrLt58VzhDoL7kDBI77U8lIn3-yV_q3Ra63Y/edit)

# Obrigado!

Prof. Me Daniel Vieira

Email: [danielvieira2006@gmail.com](mailto:danielvieira2006@gmail.com)

Linkedin: Daniel Vieira

Instagram: Prof daniel.vieira95

