

# REACT NATIVE COMPONENTS

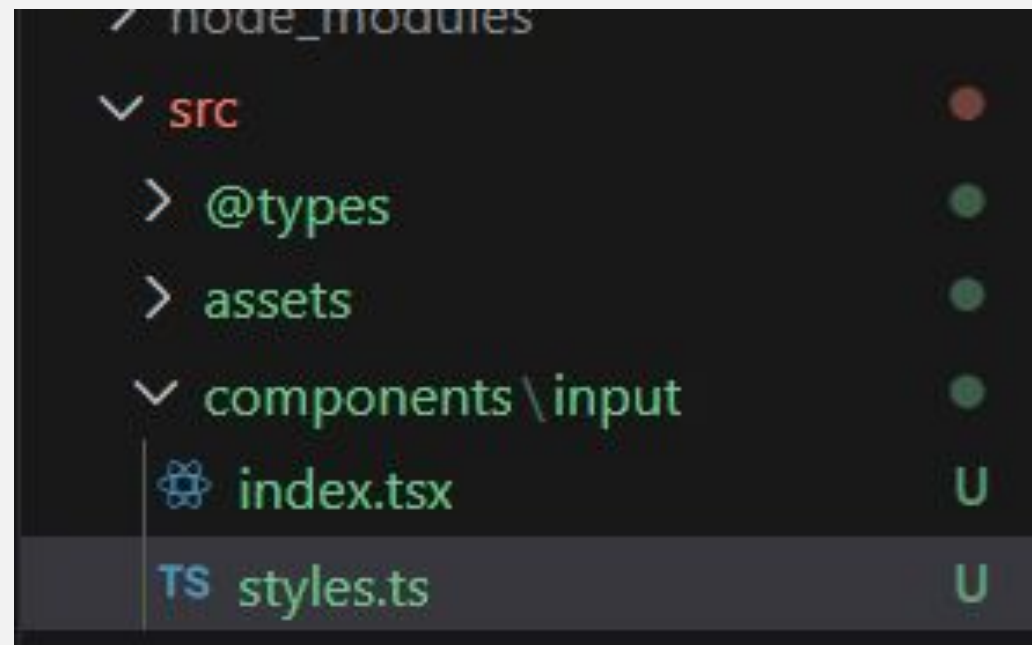
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## O QUE SÃO OS COMPONENTES

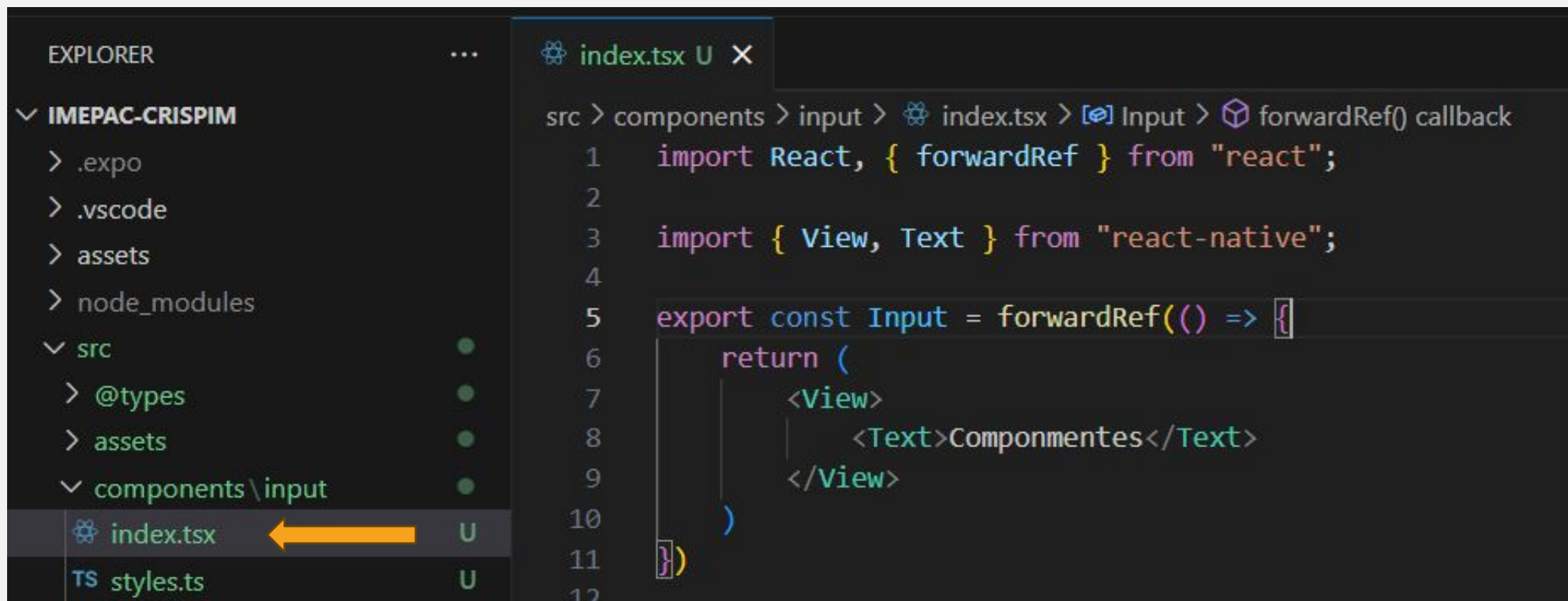
- No React Native, components são elementos reutilizáveis que ajudam a estruturar e organizar a interface do usuário de um aplicativo. Eles podem ser comparados a peças de um quebra-cabeça, onde cada componente representa uma parte específica da tela, como botões, textos, imagens e campos de entrada.

## PASTA INPUT COM OS ARQUIVOS TSX E TS

Primeiro passo  
criar um  
componente de  
teste



# VAMOS CRIAR UM COMPONENTE PARA TESTE



EXPLORER

IMEPAC-CRISPIM

- > .expo
- > .vscode
- > assets
- > node\_modules
- ✓ src
  - > @types
  - > assets
  - ✓ components☒ input
    - ⚙ index.tsx ←
    - TS styles.ts

index.tsx U X

src > components > input > ⚙ index.tsx > [e] Input > ⚡ forwardRef() callback

```
1 import React, { forwardRef } from "react";
2
3 import { View, Text } from "react-native";
4
5 export const Input = forwardRef(() => {
6   return (
7     <View>
8       <Text>Componentes</Text>
9     </View>
10   )
11 })
```

## VAMOS CHAMAR ESSE COMPONENTE EM UMA PÁGINA

- Em cima de bem vindo na tela de Login



```
44 <Image source={Logo} />
45 <Input />
46 <Text>Bem Vindo!!!</Text>
47 </View>
48 <View style={style.boxMid}>
```

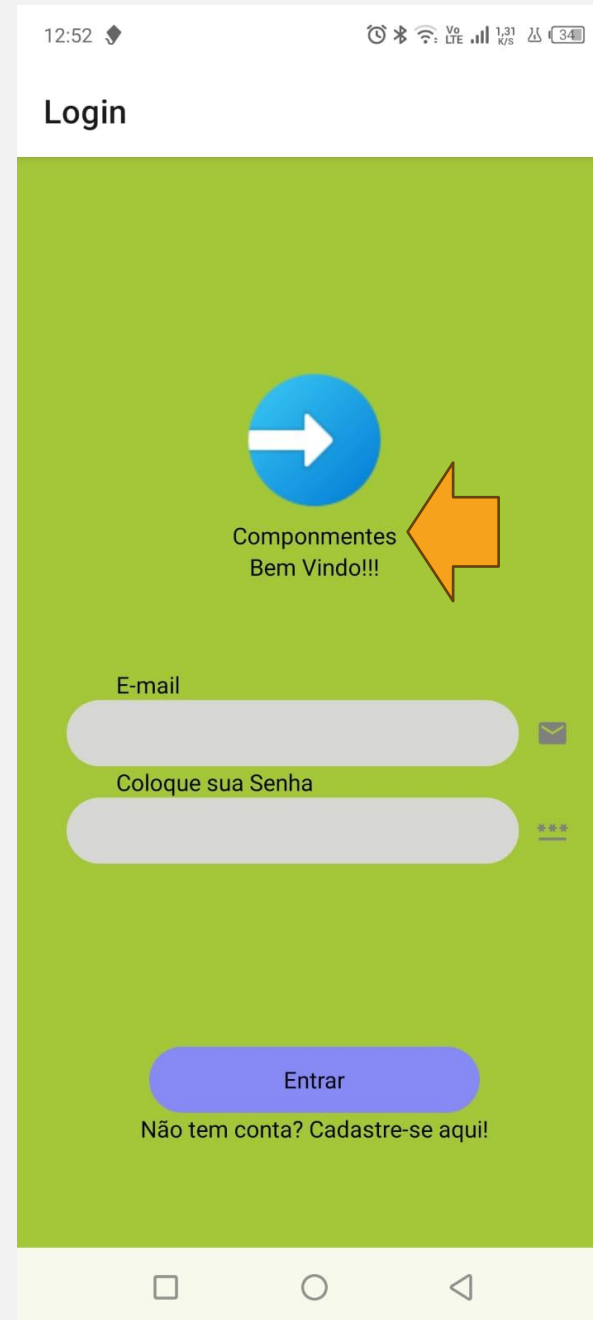
Estará nos imports

```
17 import { Input } from "../../components/input";
```

## TESTE NA TELA

Ou seja, onde  
quiser usar terá  
o componente.

Pode retirar depois, era somente para teste.



## COMPONENTE NAVEGAÇÃO

- Veja se tem as bibliotecas necessárias.  
`npm install @react-navigation/drawer`
- `npm install react-native-screens react-native-safe-area-context react-native-gesture-handler react-native-reanimated`
- Vamos usar a biblioteca drawer para criar o menu como componente

Passo 2 – criar  
um página,  
Home.

## CRIANDO PÁGINA HOME

```
index.tsx ...\home U × TS styles.ts U index.tsx ...\input U
src > pages > home > index.tsx > handleHome

1  import React, { useState } from "react";
2
3  import {
4    Text,
5    View,
6  } from 'react-native';
7
8  import {style} from './styles';
9
10 export default function handleHome() {
11
12
13   return (
14     <View style={style.container}>
15       <Text>Home</Text>
16     </View>
17   );
18 }
```

```
index.tsx ...\home U TS styles.ts ...\home U × index
src > pages > home > TS styles.ts > style

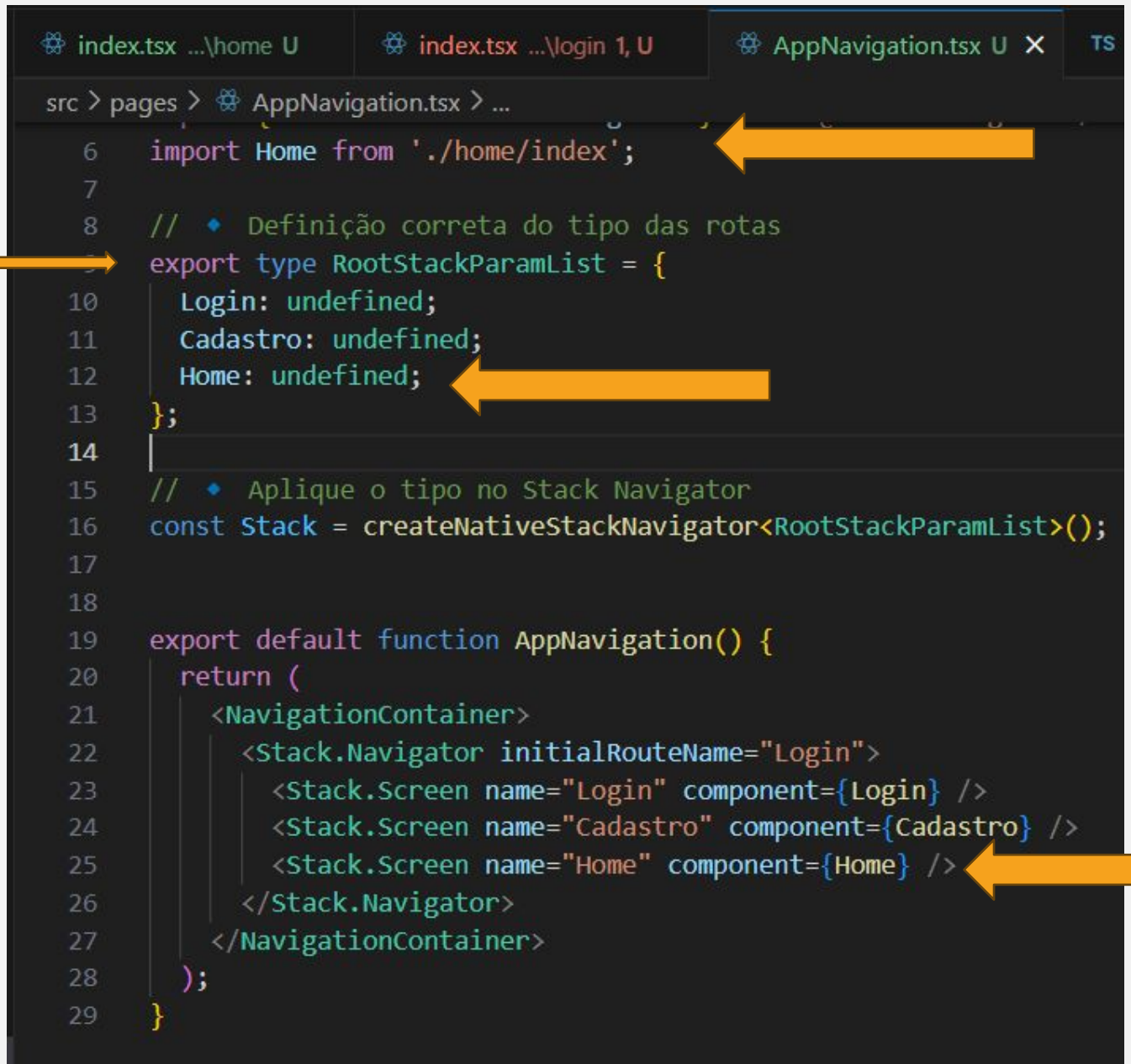
1  import { Button, Dimensions, StyleSheet } from 'react-native';
2  import { themes } from '../global/themes';
3
4  export const style = StyleSheet.create({
5
6    container: {
7
8    }
9  });
```



Passo 3 - Acrescentar essa página na navegação.

Deixe agora seu RootStackParamList export.  
E vamos chamar nossa nova página em AppNavigation.tsx

Em AppNavigation.tsx



The screenshot shows a code editor with three tabs: `index.tsx ...\home U`, `index.tsx ...\login 1, U`, and `AppNavigation.tsx U X TS`. The active file is `AppNavigation.tsx`, located at `src > pages > AppNavigation.tsx > ...`. The code is as follows:

```
6 import Home from './home/index';
7
8 // ♦ Definição correta do tipo das rotas
9 export type RootStackParamList = {
10   Login: undefined;
11   Cadastro: undefined;
12   Home: undefined;
13 };
14
15 // ♦ Aplique o tipo no Stack Navigator
16 const Stack = createNativeStackNavigator<RootStackParamList>();
17
18
19 export default function AppNavigation() {
20   return (
21     <NavigationContainer>
22       <Stack.Navigator initialRouteName="Login">
23         <Stack.Screen name="Login" component={Login} />
24         <Stack.Screen name="Cadastro" component={Cadastro} />
25         <Stack.Screen name="Home" component={Home} />
26       </Stack.Navigator>
27     </NavigationContainer>
28   );
29 }
```

Four orange arrows point to specific parts of the code:

- Arrow 1 points to the `import Home` statement on line 6.
- Arrow 2 points to the `export type RootStackParamList` definition on line 9.
- Arrow 3 points to the `Home: undefined;` property in the type definition on line 12.
- Arrow 4 points to the `<Stack.Screen name="Home" component={Home} />` JSX element on line 25.

Passo 4 – de  
Login para  
home

## EM LOGIN VAMOS CHAMAR O HOME SE PREENCHERMOS OS DADOS.

```
16 import { DrawerScreenProps } from "@react-navigation/drawer";
17 import { RootStackParamList } from "../AppNavigation";
18
19 type Props = DrawerScreenProps<RootStackParamList, 'Login'>;
20                                     Atualize o RootStackParamList
21 export default function Login({ navigation }: Props){
22   const [email, setEmail] = useState('');
23   const [senha, setSenha] = useState('');
24
25   function getLogin(){
26     try {
27       if(!email || !senha){
28         return Alert.alert('Preencha todos os campos')
29       }
30       Alert.alert("Logado com sucesso!", "", [
31         { text: "OK", onPress: () => navigation.navigate("Home") }
32       ]);
33
34     } catch (error) {
35       console.log('Erro ao logar:');
36     }
37   };
38 }
```

Após o ok,  
mudar para a  
página Home

Passe 6 de  
cadastro  
para home

## COLOCANDO NAVEGAÇÃO EM CADASTRO PARA HOME

```
12 import { RootStackParamList } from "../AppNavigation";  
13 type Props = NativeStackScreenProps<RootStackParamList, 'Cadastro'>;  
14  
15 export default function Cadastro({ navigation }: Props) {
```

```
20 function handleCadastro() {  
21   try {  
22     if (!nome || !email || !senha) {  
23       return Alert.alert("Preencha todos os campos");  
24     }  
25     Alert.alert("Cadastro realizado com sucesso!", "", [  
26       { text: "OK", onPress: () => navigation.navigate("Home") }  
27     ]);  
28   } catch (error) {  
29     console.log("Erro ao cadastrar:", error);  
30   }  
31 }
```



# ANTES DE CRIAR COMPONENTE COMO ESTÁ NOSSAS PÁGINAS LOGIN

A página não  
teve mudança

```
16 import { DrawerScreenProps } from "@react-navigation/drawer";
17 import { RootStackParamList } from "../AppNavigation";
18
19 type Props = DrawerScreenProps<RootStackParamList, 'Login'>;
20
21 export default function Login({ navigation }: Props){
22   const [email, setEmail] = useState('');
23   const [senha, setSenha] = useState('');
24
25   function getLogin(){
26     try {
27       if(!email || !senha){
28         return Alert.alert('Preencha todos os campos')
29       }
30       Alert.alert("Logado com sucesso!", "", [
31         { text: "OK", onPress: () => navigation.navigate("Home") }
32       ]);
33     } catch (error) {
34       console.log('Erro ao logar:');
35     }
36   };
37
38   return(
39     <View style={style.container}>
40       <View style={style.boxTop}>
41         <Image source={Logo} />
42         <Text>Bem Vindo!!!</Text>
43       </View>
44       <View style={style.boxMid}>
```

# CADASTRO

```
11 import { RootStackParamList } from "../AppNavigation";
12 import { DrawerScreenProps } from "@react-navigation/drawer";
13 type Props = DrawerScreenProps<RootStackParamList, 'Cadastro'>;
14
15 export default function Cadastro({ navigation }: Props) {
16   const [nome, setNome] = useState("");
17   const [email, setEmail] = useState("");
18   const [senha, setSenha] = useState("");
19
20   function handleCadastro() {
21     try {
22       if (!nome || !email || !senha) {
23         return Alert.alert("Preencha todos os campos");
24       }
25       Alert.alert("Cadastro realizado com sucesso!", "", [
26         { text: "OK", onPress: () => navigation.navigate("Home") }
27       ]);
28     } catch (error) {
29       console.log("Erro ao cadastrar:", error);
30     }
31   }
32
33   return (
34     <View style={style.container}>
35       <Text style={style.title}>Página de Cadastro</Text>
36
```

# COMPONENTE MENU

components	●
> input	●
menu	●
Menu.tsx	U
styles.ts	U

Menu.tsx U X

src > components > menu > Menu.tsx > Menu

```
1  import { useNavigation } from "@react-navigation/native";
2  import { NativeStackNavigationProp } from "@react-navigation/native-stack";
3  import { RootStackParamList } from "../../pages/AppNavigation";
4  import { TouchableOpacity } from "react-native";
5  import { style } from "../styles";
6  import { View, Text } from "react-native";
7
8  type NavigationProps = NativeStackNavigationProp<RootStackParamList>;
9
10 export default function Menu() {
11   const navigation = useNavigation<NavigationProps>();
12   return (
13     <View style={style.menuContainer}>
14       <TouchableOpacity onPress={() => navigation.navigate("Home")}>
15         <Text style={style.menuItem}>🏠 Home</Text>
16       </TouchableOpacity>
17       <TouchableOpacity onPress={() => navigation.navigate("Login")}>
18         <Text style={style.menuItem}>🔑 Login</Text>
19       </TouchableOpacity>
20       <TouchableOpacity onPress={() => navigation.navigate("Cadastro")}>
21         <Text style={style.menuItem}>📄 Cadastro</Text>
22       </TouchableOpacity>
23     </View>
24   );
25 }
```




# STYLE DO COMPONENTE MENU

```
Menu.tsx U TS styles.ts U X
src > components > menu > TS styles.ts > ...
1  import { StyleSheet } from "react-native";
2  import { temas } from "../../global/themes";
3
4  export const style = StyleSheet.create({
5    menuContainer: {
6      flexDirection: "row",
7      justifyContent: "space-around",
8      backgroundColor: "#ddd",
9      padding: 10,
10     borderBottomWidth: 1,
11     borderBottomColor: "#aaa",
12   },
13   menuItem: {
14     fontSize: 16,
15     fontWeight: "bold",
16   },
17 });
18
```

# COMPONENTE EM HOME

```
index.tsx U X
src > pages > home > index.tsx > handleHome
1  import React, { useState } from "react";
2
3  import {
4    Text,
5    View,
6  } from 'react-native';
7
8  import {style} from './styles';
9  import Menu from '../components/menu/Menu';
10
11 export default function handleHome() {
12   return (
13     <View style={style.container}>
14       <Menu />
15       <Text>Home</Text>
16     </View>
17   );
18 }
```





# COMO ESTÁ HOME

