

# Mobile Application Development

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# Criar chave no site Giphy

The screenshot shows the Giphy Developers Dashboard. At the top, there is a navigation bar with links for Docs, Dashboard, FAQs, and API Explorer, along with a "Create an API Key" button and a user profile for "fernandopa12". The main section is titled "Dashboard" and contains a welcome message: "Welcome to your GIPHY Developer Dashboard. Get started by creating a beta API key. All newly created beta keys are subject to rate limits and are best used in a development environment." Below this, there is a note: "Once you are ready to go live with your GIPHY integration, upgrade your API key by clicking on 'Upgrade to Production'." A section titled "API Key Best Practices:" lists two bullet points: "Create unique API keys for each platform your app supports." and "Differentiation by API key enables more granular traffic analysis and aids in troubleshooting, enabling us to offer targeted support for your integration." The bottom section is titled "Your API Keys" and displays three API keys: "ProjetoPF2" (Edit, API), "Teste-PM" (Edit, API), and "ProjetoPF" (Edit, API). Each key has an "API Key" link below it.

GIPHY Developers

Docs Dashboard FAQs API Explorer Create an API Key fernandopa12

## Dashboard

Welcome to your GIPHY Developer Dashboard. Get started by creating a beta API key. All newly created beta keys are subject to rate limits and are best used in a development environment.

Once you are ready to go live with your GIPHY integration, upgrade your API key by clicking on 'Upgrade to Production'.

**API Key Best Practices:**

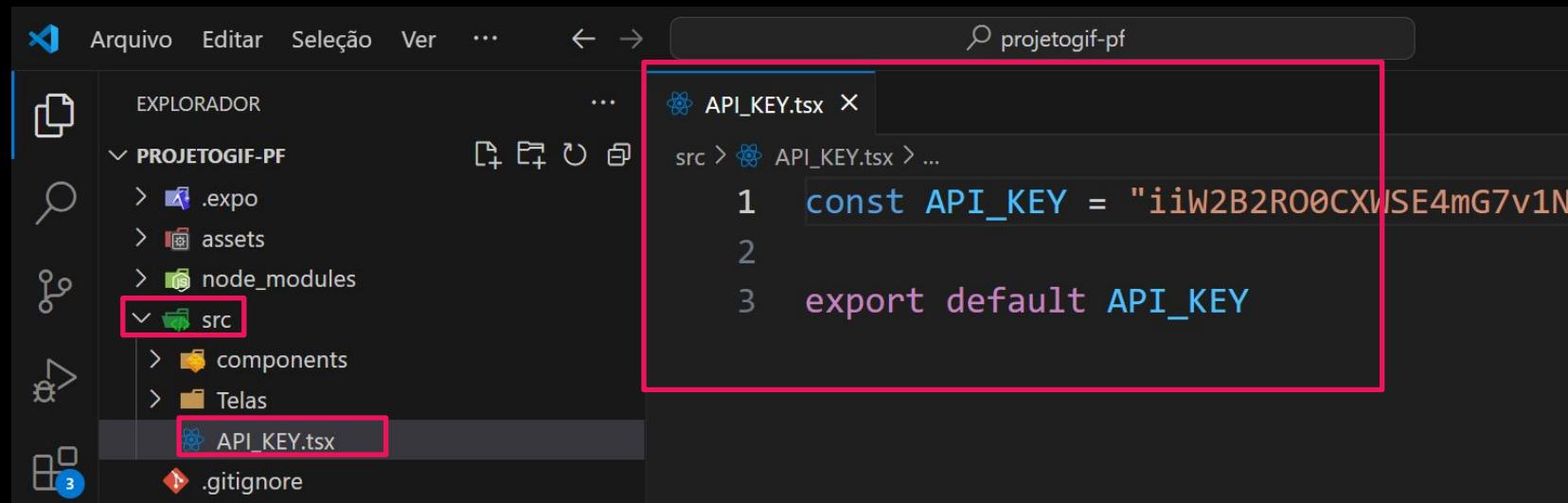
- Create unique API keys for each platform your app supports.
- Differentiation by API key enables more granular traffic analysis and aids in troubleshooting, enabling us to offer targeted support for your integration.

## Your API Keys

ProjetoPF2 API	Edit	Teste-PM API	Edit	ProjetoPF API	Edit
API Key		API Key		API Key	

# Criando novo projeto

- `npx create-expo-app AulaAxios --template blank`



# Instalando a navegação Stack dentro do projeto

```
npm install @react-navigation/stack @react-navigation/native
```

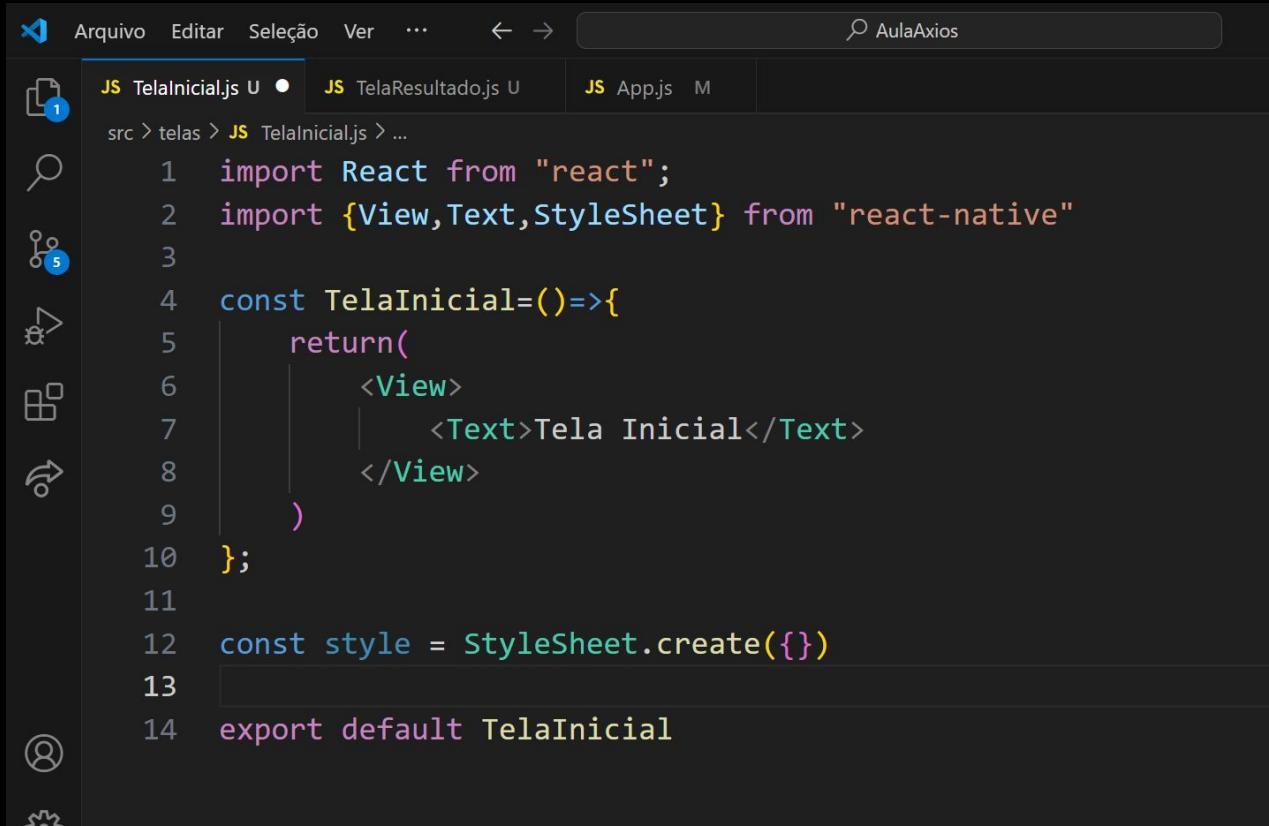
# Criando os arquivos de telas

The screenshot shows the VS Code interface with the following details:

- EXPLORADOR (File Explorer):** Shows the project structure under "AULAAXIOS".
  - 📁 .expo
  - 📁 assets
  - 📁 node\_modules
  - 📁 src
    - 📁 telas
      - JS Telainicial.js
      - JS TelaResultado.js
  - .gitignore
  - JS App.js (highlighted with a blue bar)
  - app.json
  - babel.config.js
  - package-lock.json
  - package.json
- Editor:** Displays the content of "App.js".

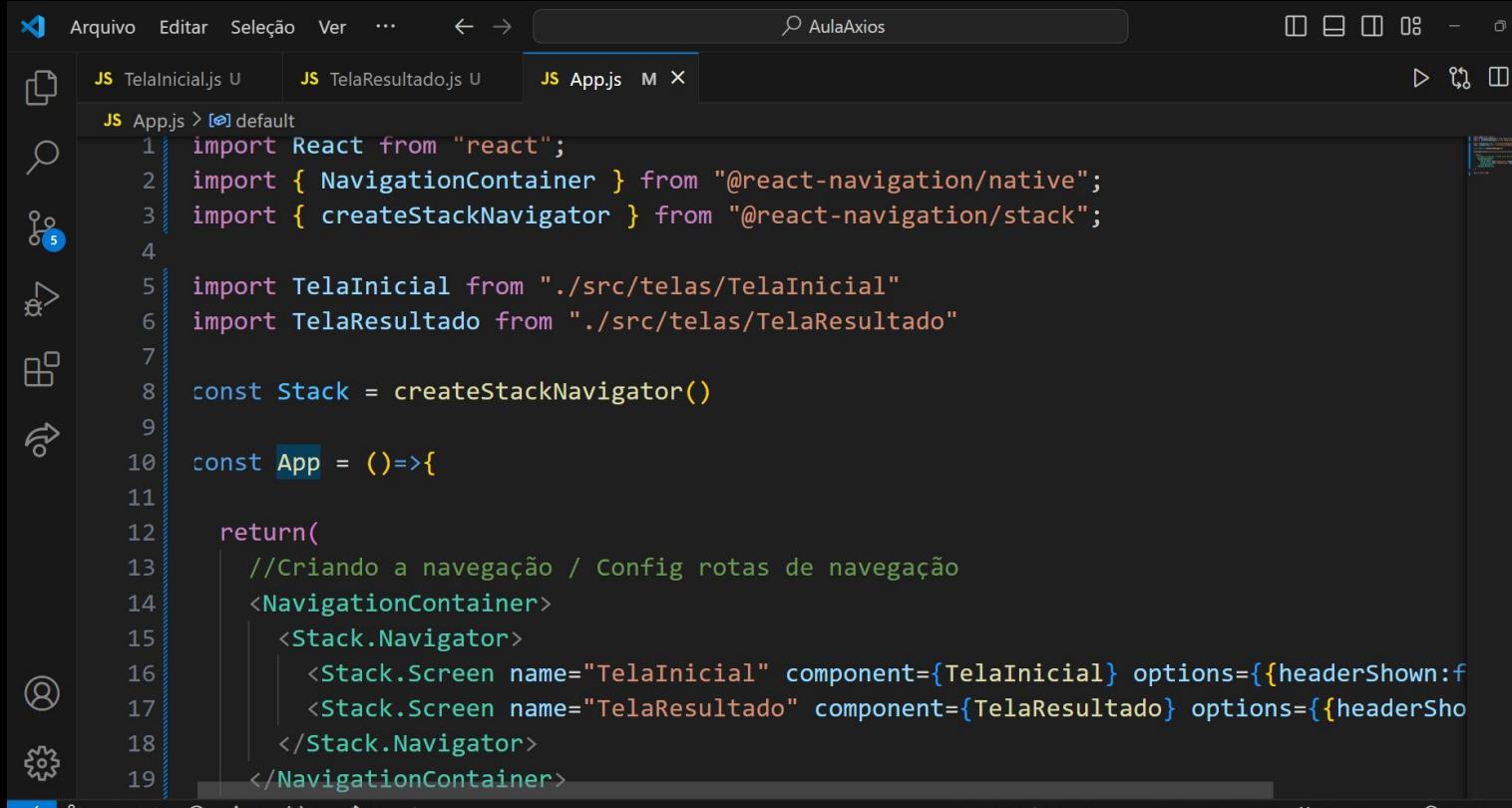
```
import { StatusBar }  
import { StyleSheet }  
  
export default function()  
{  
  return (  
    <View style={sty}  
      <Text>Open up  
      <StatusBar sty  
    </View>  
  );  
}
```
- Search Bar:** Contains the text "AulaAxios".

# No arquivo TelaInicial.js



```
Arquivo Editar Seleção Ver ... ⏪ ⏩ AulaAxios
JS TelaInicial.js U ● JS TelaResultado.js U JS App.js M
src > telas > JS TelaInicial.js > ...
1 import React from "react";
2 import {View,Text,StyleSheet} from "react-native"
3
4 const TelaInicial=()=>{
5     return(
6         <View>
7             <Text>Tela Inicial</Text>
8         </View>
9     )
10 };
11
12 const style = StyleSheet.create({})
13
14 export default TelaInicial
```

# Arq App.js



The screenshot shows a dark-themed code editor interface with a sidebar on the left containing various icons. The top bar has tabs for 'Arquivo', 'Editar', 'Seleção', 'Ver', and '...', followed by navigation arrows and a search bar containing 'AulaAxios'. The main area displays the 'App.js' file content:

```
Arquivo Editar Seleção Ver ... ← → 🔍 AulaAxios
JS Telainicial.js U JS TelaResultado.js U JS App.js M X
JS App.js > [default]
1 import React from "react";
2 import { NavigationContainer } from "@react-navigation/native";
3 import { createStackNavigator } from "@react-navigation/stack";
4
5 import TelaInicial from "./src/telas/TelaInicial"
6 import TelaResultado from "./src/telas/TelaResultado"
7
8 const Stack = createStackNavigator()
9
10 const App = ()=>{
11
12     return(
13         //Criando a navegação / Config rotas de navegação
14         <NavigationContainer>
15             <Stack.Navigator>
16                 <Stack.Screen name="TelaInicial" component={TelaInicial} options={{headerShown:false}}>
17                     <Stack.Screen name="TelaResultado" component={TelaResultado} options={{headerShown:false}}>
18                         </Stack.Screen>
19                 </Stack.Navigator>
20             </NavigationContainer>
```

# Importando as imagens para o projeto

```
Arquivo Editar Seleção Ver ... ← → ⌂ AulaAxios
EXPLORADOR ...
AULAAXIOS
> .expo
> assets
> node_modules
src
  > assets
    BG.png
    HomePage.png
  > telas
    TelInicial.js
    TelaResultado.js
  .gitignore
  App.js M
  app.json
  babel.config.js
  package-lock.json M
  package.json M
JS TelInicial.js U JS TelaResultado.js U JS App.js M X
JS App.js > [e] default
1 import React from "react";
2 import { Stack } from "react-native";
3 import { StackNavigationState, StackNavigationOptions, StackScreenProps } from "react-native-stack-navigation";
4 import { StackNavigator } from "react-native-stack-navigator";
5 import { StackScreenProps } from "react-native-stack-navigation";
6 import { StackScreenProps } from "react-native-stack-navigator";
7 ({ id, initialRouteName, children, screenListeners, screenOptions, screenProps } : StackScreenProps) => JSX.Element>
8 const Stack = createStackNavigator()
9
10 const App = ()=>{
11
12   return(
13     //Criando a navegação / Configurando o Stack
14     <NavigationContainer>
15       <Stack.Navigator>
16         <Stack.Screen name="TelInicial">
```

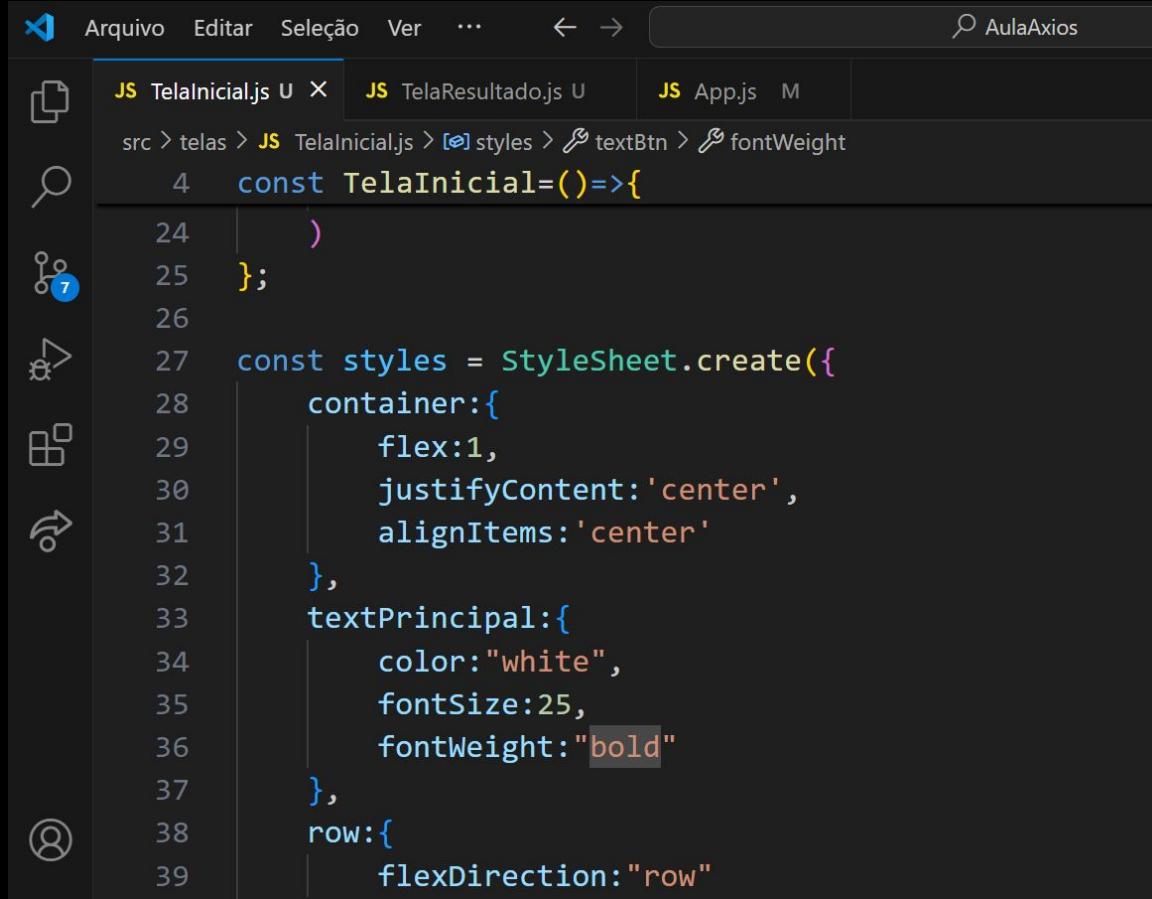
# Desenvolvendo Telalnicial

The screenshot shows a code editor interface with three tabs at the top: 'JS Telalnicial.js U' (active), 'JS TelaResultado.js U', and 'JS App.js M'. The current file, 'Telalnicial.js', is located in the 'src/telas' directory and imports 'Telalnicial' from itself. The code defines a functional component 'TelaInicial' that returns a React Native component structure. It includes an 'ImageBackground' component with a source from 'assets/HomePage.png' and a style from 'styles.container'. Below it is a 'Text' component with the text 'Pesquisar por...'. A 'View' component with style 'row' contains two 'TouchableOpacity' components. Each 'TouchableOpacity' has a 'Text' component with the text 'GIFs' and 'Stickers' respectively. The code uses 'styling' objects like 'textPrincipal', 'row', 'btn', and 'textBtn'.

```
1 JS Telalnicial.js U ● JS TelaResultado.js U JS App.js M
src > telas > JS Telalnicial.js > [o] Telalnicial
4 const TelaInicial=()=>{
5     return(
6         <ImageBackground
7             source={require("../assets/HomePage.png")}
8             style={styles.container}
9         >
10
11         <Text style={styles.textPrincipal}>Pesquisar por...</Text>
12
13         <View style={styles.row}>
14             <TouchableOpacity style={styles.btn}>
15                 <Text style={styles.textBtn}>GIFs</Text>
16             </TouchableOpacity>
17
18             <TouchableOpacity style={styles.btn}>
19                 <Text style={styles.textBtn}>Stickers</Text>
20             </TouchableOpacity>
21         </View>
```

# Estilo Telalnicial – Parte I

FIAP



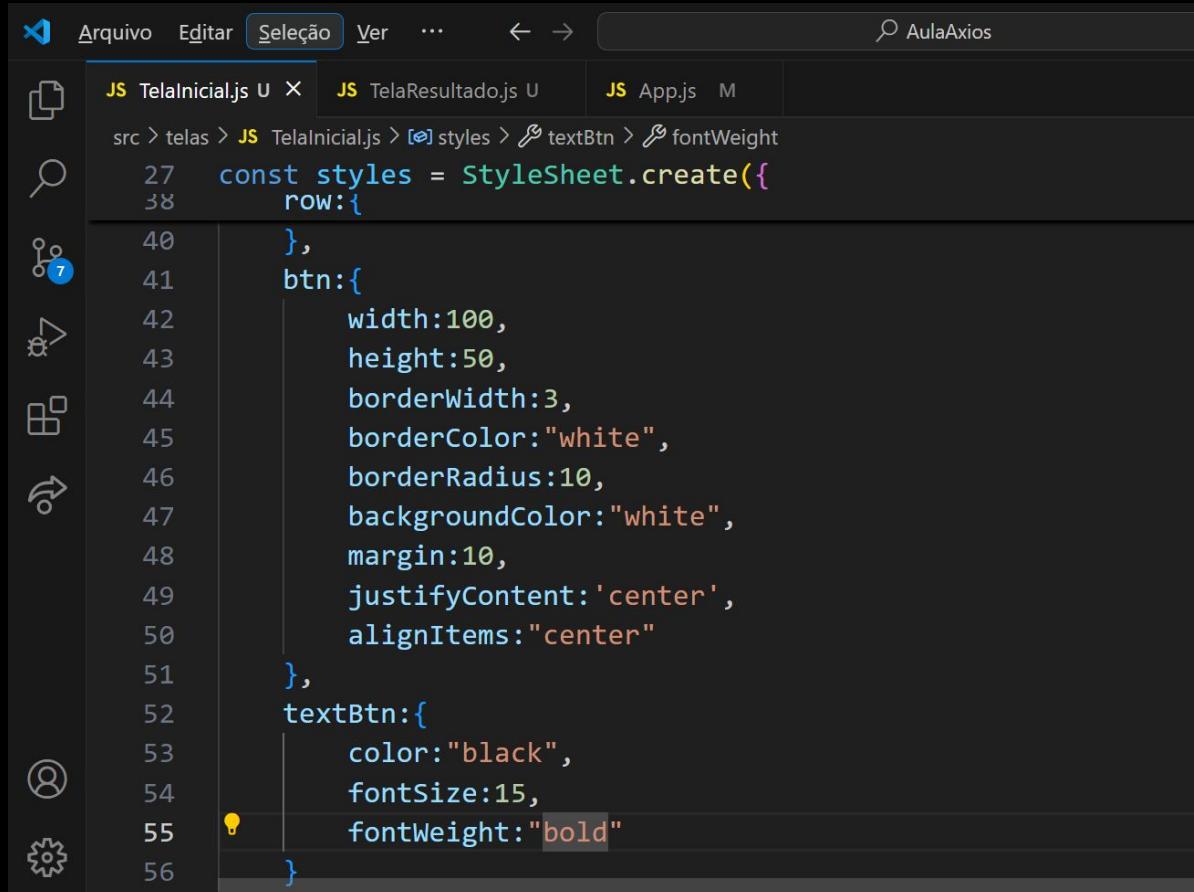
The screenshot shows a dark-themed instance of Visual Studio Code. The title bar includes the Microsoft logo, file menu (Arquivo), edit menu (Editar), selection menu (Seleção), view menu (Ver), and a three-dot ellipsis. A search bar contains the text "AulaAxios". The left sidebar features icons for file operations (New, Open, Save, Find, Replace, Go To, and a refresh icon with a '7' notification). The main editor area displays the following code:

```
JS Telalnicial.js U X JS TelaResultado.js U JS App.js M
src > telas > JS Telalnicial.js > [e] styles > ⚡ textBtn > ⚡ fontWeight
4  const TelaInicial=()=>{
24    )
25  };
26
27  const styles = StyleSheet.create({
28    container:{
29      flex:1,
30      justifyContent:'center',
31      alignItems:'center'
32    },
33    textPrincipal:{
34      color:"white",
35      fontSize:25,
36      fontWeight:"bold"
37    },
38    row:{
39      flexDirection:"row"
```

The code defines a functional component named `TelaInicial`. It uses the `StyleSheet.create` function to define a style object. This object contains three properties: `container`, `textPrincipal`, and `row`. The `textPrincipal` style is applied to the text button, setting its color to white, font size to 25, and font weight to bold.

# Estilo Telalnicial – Parte II

FIAP



A screenshot of a dark-themed code editor, likely VS Code, showing a snippet of JavaScript code for styling a button. The code is part of a StyleSheet object, defining styles for 'row' and 'textBtn' components.

```
JS Telalnicial.js U X JS TelaResultado.js U JS App.js M
src > telas > JS Telalnicial.js > [o] styles > ⚡ textBtn > ⚡ fontWeight
27 const styles = StyleSheet.create({
28   row: {
29     },
30   btn: {
31     width: 100,
32     height: 50,
33     borderWidth: 3,
34     borderColor: "white",
35     borderRadius: 10,
36     backgroundColor: "white",
37     margin: 10,
38     justifyContent: 'center',
39     alignItems: "center"
40   },
41   textBtn: {
42     color: "black",
43     fontSize: 15,
44     fontWeight: "bold"
45   }
46 }
```

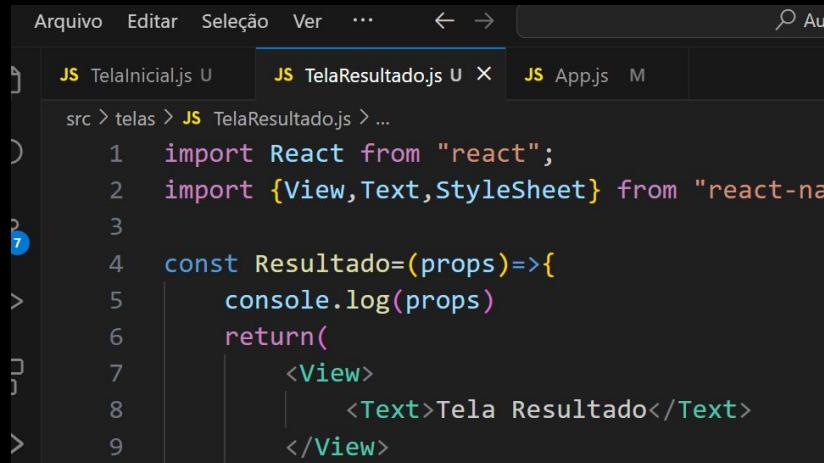
# Criando navegação e passando um objeto

The screenshot shows a code editor interface with a dark theme. The top bar includes icons for file operations (Arquivo, Editar, Seleção, Ver, ...), navigation (back, forward), a search bar (AulaAxios), and window controls (minimize, maximize, close). The left sidebar contains icons for file operations, search, navigation history (with 7 items), and other development tools.

The main code editor area displays the file `TelaInicial.js`. The code defines a function `laInicial` that takes a `navigation` prop. It contains two `TouchableOpacity` components with `onPress` handlers that call `navigation.navigate` with different route names ("TelaResultado") and parameters ("escolha: "gifs" and "stickers").

```
JS TelaInicial.js U X JS TelaResultado.js U JS App.js M
src > telas > JS TelaInicial.js > TelaInicial > ↗ <function> > ↗ escolha
  4  laInicial = ({ navigation }) => {
  9  >
10
11    <Text style={styles.textPrincipal}>Pesquisar por...</Text>
12
13    <View style={styles.row}>
14      <TouchableOpacity style={styles.btn}
15        onPress={()=>navigation.navigate("TelaResultado",{escolha:"gifs"})}
16      >
17        <Text style={styles.textBtn}>GIFs</Text>
18      </TouchableOpacity>
19
20      <TouchableOpacity style={styles.btn}
21        onPress={()=>navigation.navigate("TelaResultado",{escolha:"stickers"})}
22        <Text style={styles.textBtn}>Stickers</Text>
23      </TouchableOpacity>
24    </View>
```

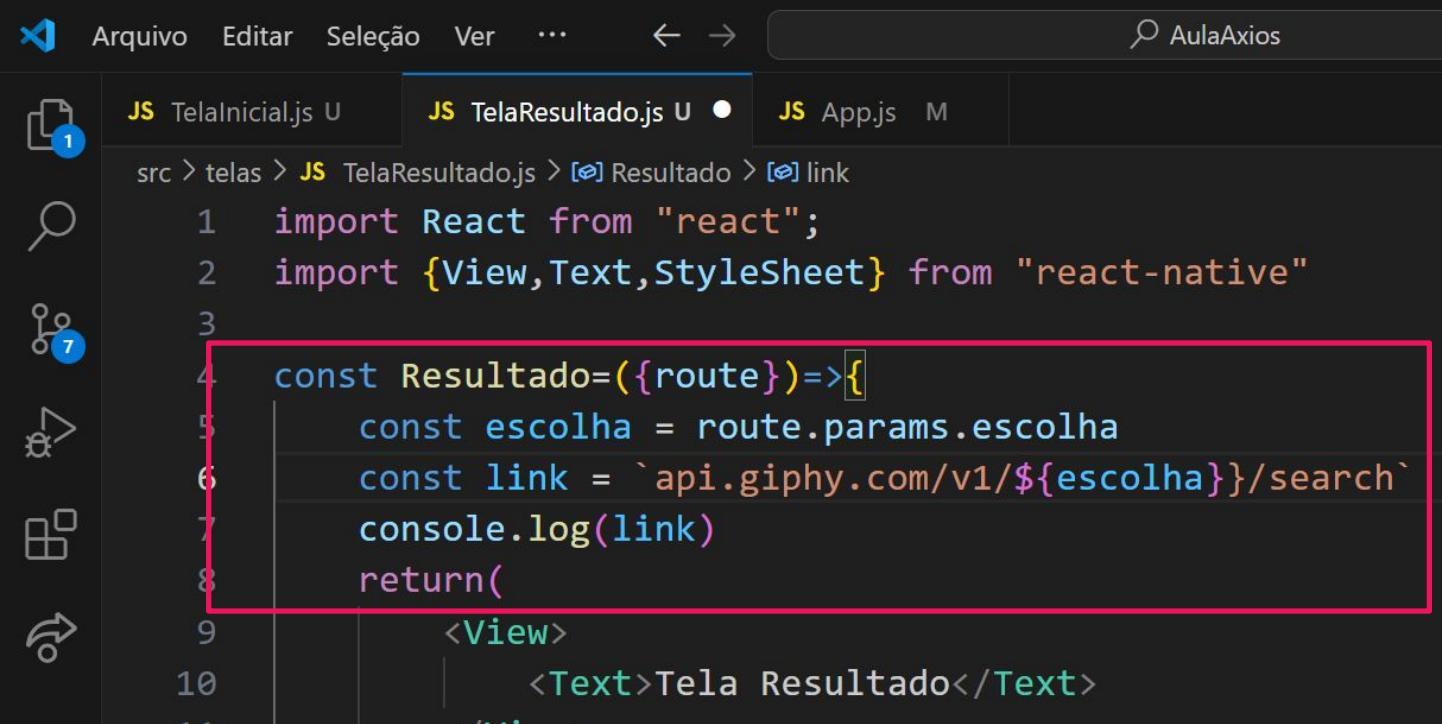
# Mostrando o props na TelaResultado



```
Arquivo Editar Seleção Ver ... ← → ⌂ Aul
JS Telainicial.js U JS TelaResultado.js U X JS App.js M
src > telas > JS TelaResultado.js > ...
1 import React from "react";
2 import {View,Text,StyleSheet} from "react-native"
3
4 const Resultado=(props)=>{
> 5   console.log(props)
6   return(
> 7     <View>
> 8       <Text>Tela Resultado</Text>
> 9     </View>
```

LOG {"navigation": {"addListener": [Function addListener], "canGoBack": [Function canGoBack], "dispatch": [Function dispatch], "getId": [Function getId], "getParent": [Function getParent], "getState": [Function anonymous], "goBack": [Function anonymous], "isFocused": [Function isFocused], "navigate": [Function anonymous], "pop": [Function anonymous], "popToTop": [Function anonymous], "push": [Function anonymous], "removeListener": [Function removeListener], "replace": [Function anonymous], "reset": [Function anonymous], "setOptions": [Function setOptions], "setParams": [Function anonymous]}, "route": {"key": "TelaResultado-ULX3P2679FXQlLFsG6ldy", "name": "TelaResultado", "params": {"escolha": "stickers"}, "path": undefined}}}

# Armazenando em uma variável a informação que está sendo passado entre telas..



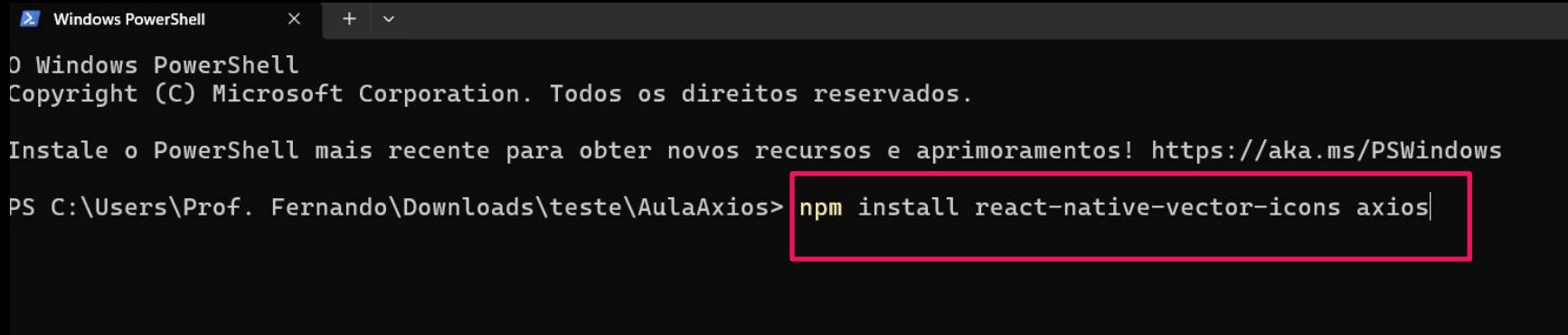
Arquivo Editar Seleção Ver ... ← → 🔍 AulaAxios

JS TelInicial.js U JS TelaResultado.js U ● JS App.js M

src > telas > JS TelaResultado.js > [?] Resultado > [?] link

```
1 import React from "react";
2 import {View,Text,StyleSheet} from "react-native"
3
4 const Resultado={({route})=>{
5     const escolha = route.params.escolha
6     const link = `api.giphy.com/v1/${escolha}/search`
7     console.log(link)
8     return(
9         <View>
10            <Text>Tela Resultado</Text>
11    ...
12}
```

# Instalando uma biblioteca de ícones e o axios



```
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos os direitos reservados.

Instale o PowerShell mais recente para obter novos recursos e aprimoramentos! https://aka.ms/PSWindows

PS C:\Users\Prof. Fernando\Downloads\teste\AulaAxios> npm install react-native-vector-icons axios
```

# Buscando ícones...

FIAP

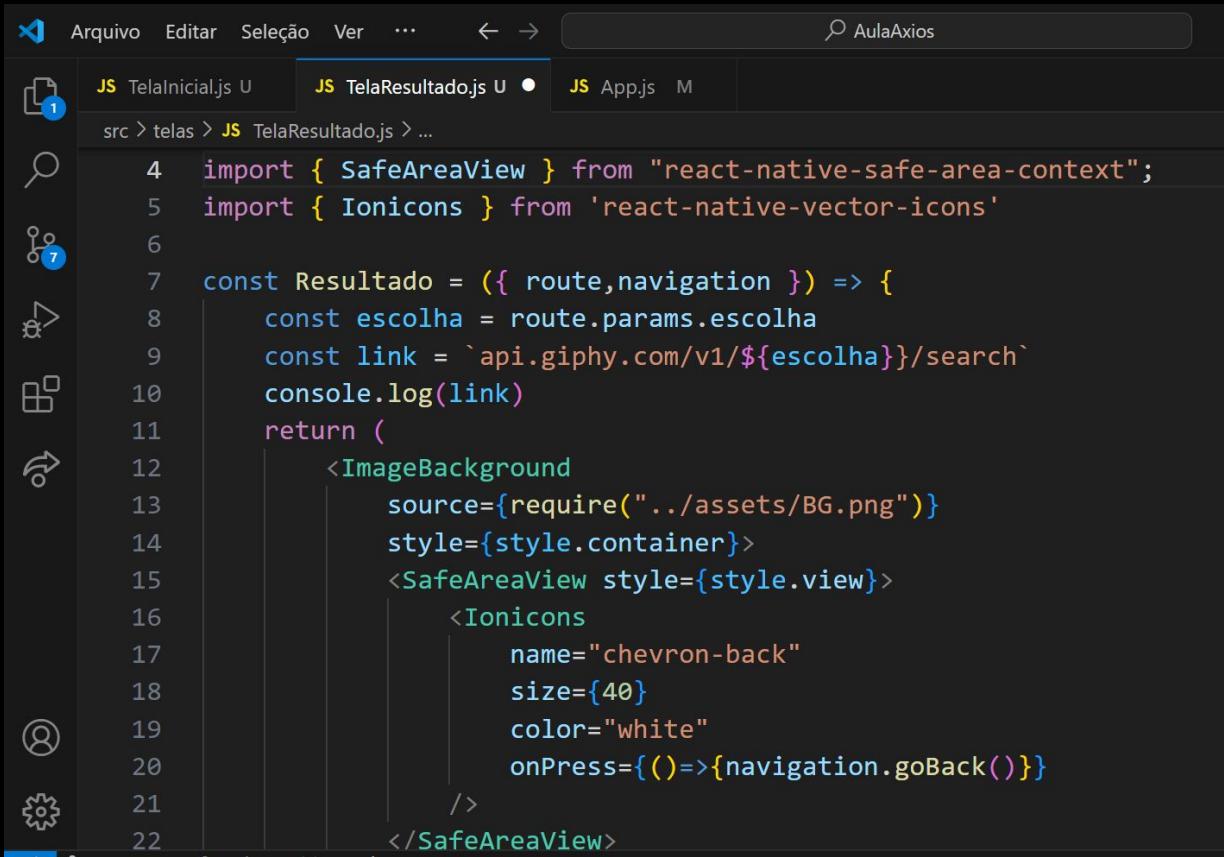
oblador.github.io/react-native-vector-icons/

MaterialCommunityIcons MaterialIcons Octicons SimpleLineIcons Zocial

## AntDesign

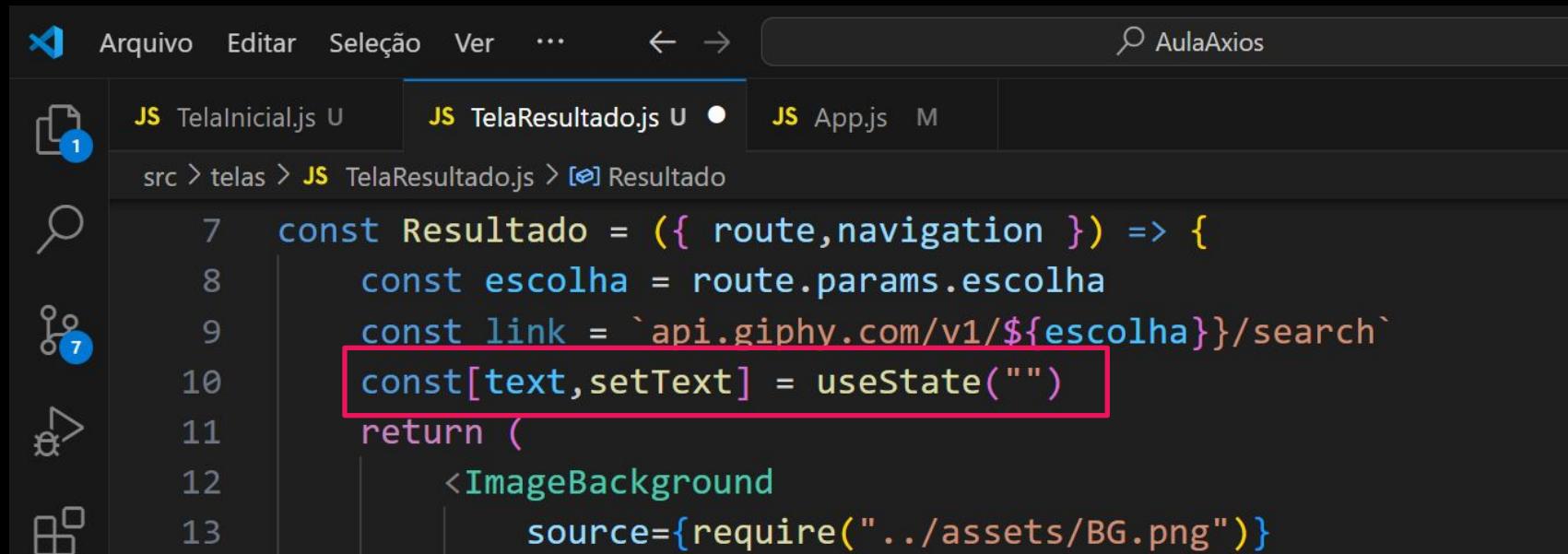
stepforward	stepbackward	forward	backward	caretright	caretleft	caretdown
care tup	rightcircle	leftcircle	upcircle	downcircle	rightcircleo	leftcircleo
upcircleo	downcircleo	verticleft	verticleright	back	retweet	shrink
arrowsalt	doubleright	doubleleft	arrowdown	arrowup	arrowright	arrowleft

# Personalizando TelaResultado



```
Arquivo Editar Seleção Ver ... ← → AulaAxios
JS Telainicial.js U JS TelaResultado.js U M JS App.js M
src > telas > JS TelaResultado.js > ...
4 import { SafeAreaView } from "react-native-safe-area-context";
5 import { Ionicons } from 'react-native-vector-icons'
6
7 const Resultado = ({ route, navigation }) => {
8     const escolha = route.params.escolha
9     const link = `api.giphy.com/v1/${escolha}/search`
10    console.log(link)
11    return (
12        <ImageBackground
13            source={require("../assets/BG.png")}
14            style={style.container}>
15                <SafeAreaView style={style.view}>
16                    <Ionicons
17                        name="chevron-back"
18                        size={40}
19                        color="white"
20                        onPress={()=>{navigation.goBack()}}
21                    />
22                </SafeAreaView>
```

# Criando o TextInput para o usuário pesquisar



The screenshot shows a code editor interface with the following details:

- File Explorer:** Shows a file tree with `TelaInicial.js`, `TelaResultado.js` (selected), and `App.js`.
- Search Bar:** Displays the text "AulaAxios".
- Code Area:** The code for `TelaResultado.js` is shown, specifically the `Resultado` component. A red box highlights the line of code where a state hook is used to manage the search text.

```
const Resultado = ({ route, navigation }) => {
  const escolha = route.params.escolha
  const link = `api.giphy.com/v1/${escolha}/search`
  const [text, setText] = useState("") // Line highlighted by a red box
  return (
    <ImageBackground
      source={require("../assets/BG.png")}
```

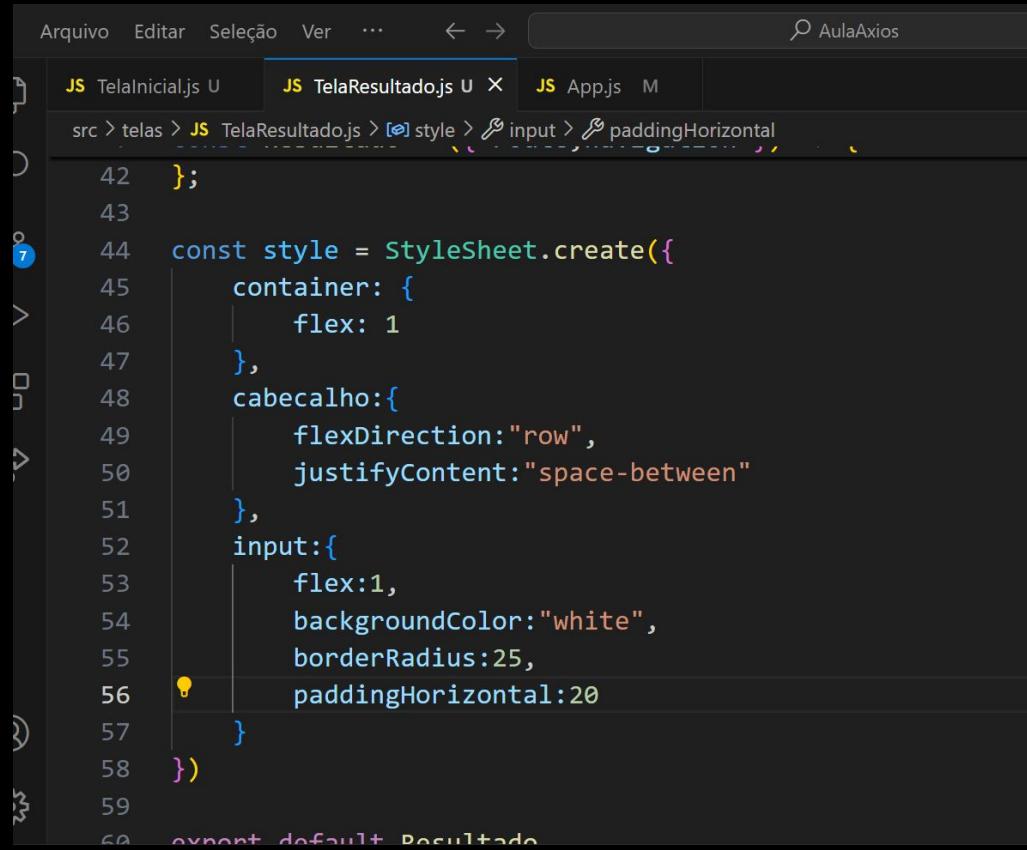
# Criando o TextInput para o usuário pesquisar

```
<SafeAreaView style={style.view}>
  <Ionicons
    name="chevron-back"
    size={40}
    color="white"
    onPress={()=>{navigation.goBack()}}
  />
  <TextInput
    placeholder="Pesquisa"
    autoCapitalize="none"
    autoCorrect={false}
    value={text}
    onChangeText={(value)=>setText(value)}
  />
</SafeAreaView>
```

# Incluindo ícone de lupa

```
        .
        .
        .
        autoCorrect={false}
        value={text}
        onChangeText={(value)=>setText(value)}
    />
    <Ionicons
        name="search"
        size={40}
        color="white"
        onPress={()=>{}}
    />
</SafeAreaView>
```

# Estilo TelaResultado



```
Arquivo Editar Seleção Ver ... ← → 🔍 AulaAxios
JS Telainicial.js U JS TelaResultado.js U JS App.js M
src > telas > JS TelaResultado.js > [o] style > ⚡ input > ⚡ paddingHorizontal
42 };
43
44 const style = StyleSheet.create({
45   container: {
46     flex: 1
47   },
48   cabecalho: {
49     flexDirection: "row",
50     justifyContent: "space-between"
51   },
52   input: {
53     flex: 1,
54     backgroundColor: "white",
55     borderRadius: 25,
56     paddingHorizontal: 20
57   }
58 })
59
60 export default Resultado
```

# Função de comunicação com a API

```
const Resultados = ({ navigation, route }) => {
  const escolha = route.params.escolha;
  const link = `https://api.giphy.com/v1/${escolha}/search`;
  const [text, setText] = useState("");

  const [data, setData] = useState([]);

  const solicitar = async (text) => {
    Keyboard.dismiss();
    try {
      const resultados = await axios.get(link, {
        params: {
          api_key: API_KEY,
          q: text,
          lang: "pt",
        },
      });
      console.log(resultados.data.data);
      setData(resultados.data.data);
    } catch (err) {
      console.log(err);
    }
  };
}
```

# Renderizando em uma FlatList

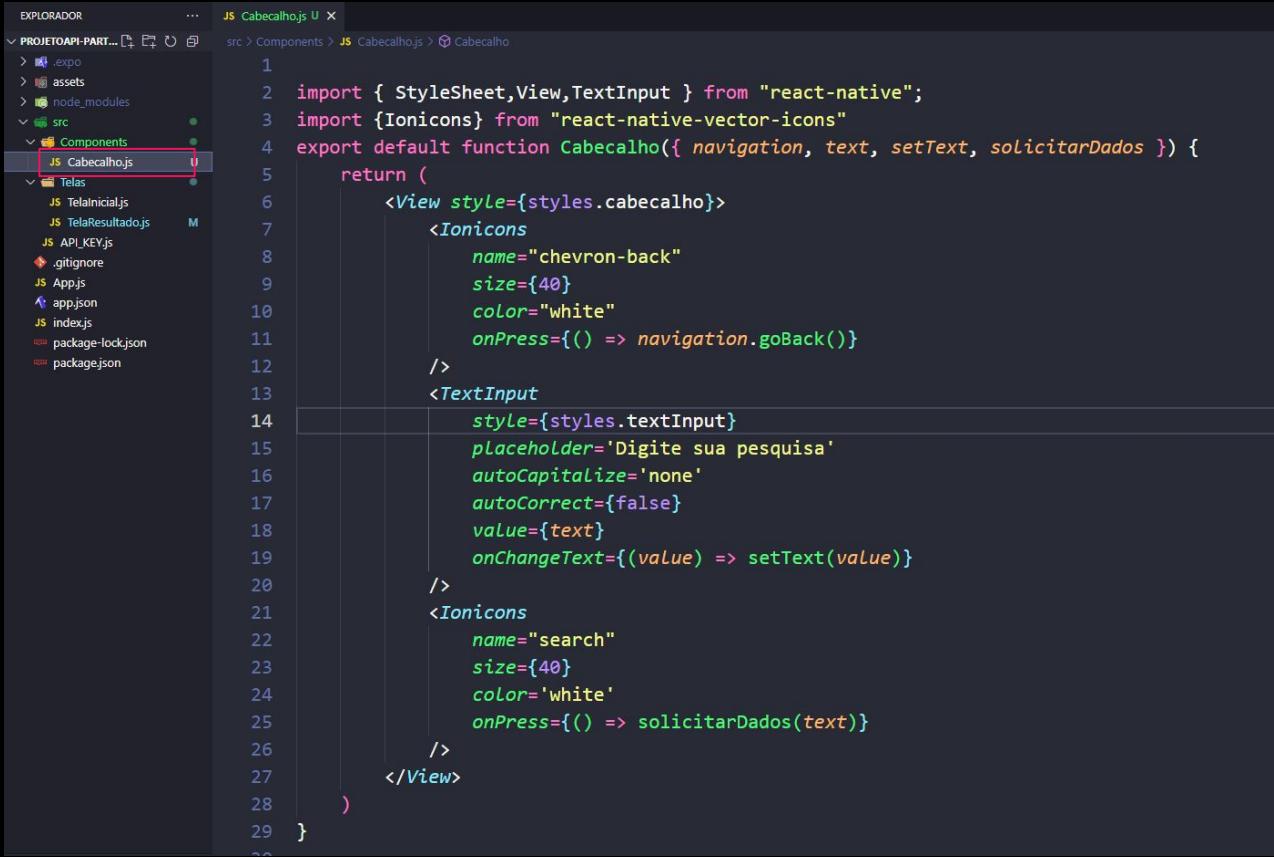
```
<FlatList
  data={data}
  keyExtractor={(element) => element.id}
  renderItem={({item}) => {
    return (
      <Text>{item.id}</Text>
    )
  }}
/>
</SafeAreaView>
```

# Melhorando a visualização da FlatList

```
,  
  <FlatList  
    data={data}  
    keyExtractor={(element) => element.id}  
    renderItem={({ item }) => {  
      return (  
        <Image  
          style={styles.image}  
          source={{  
            uri: item.images.preview_gif.url,  
          }}  
        />  
      );  
    }}  
  />
```

Tentem componentizar o cabeçalho

# Criando o componente cabecalho.js



The image shows a screenshot of a code editor with a dark theme. On the left is a file explorer sidebar showing a project structure. The 'src' folder contains 'Components', which has 'JS Cabecalho.js'. Other files in 'Components' include 'Telas', 'API.KEY.js', '.gitignore', 'App.js', 'app.json', and 'index.js'. The 'src' folder also contains 'assets', 'node\_modules', and 'expo'. The main editor area is titled 'JS Cabecalho.js U' and displays the following code:

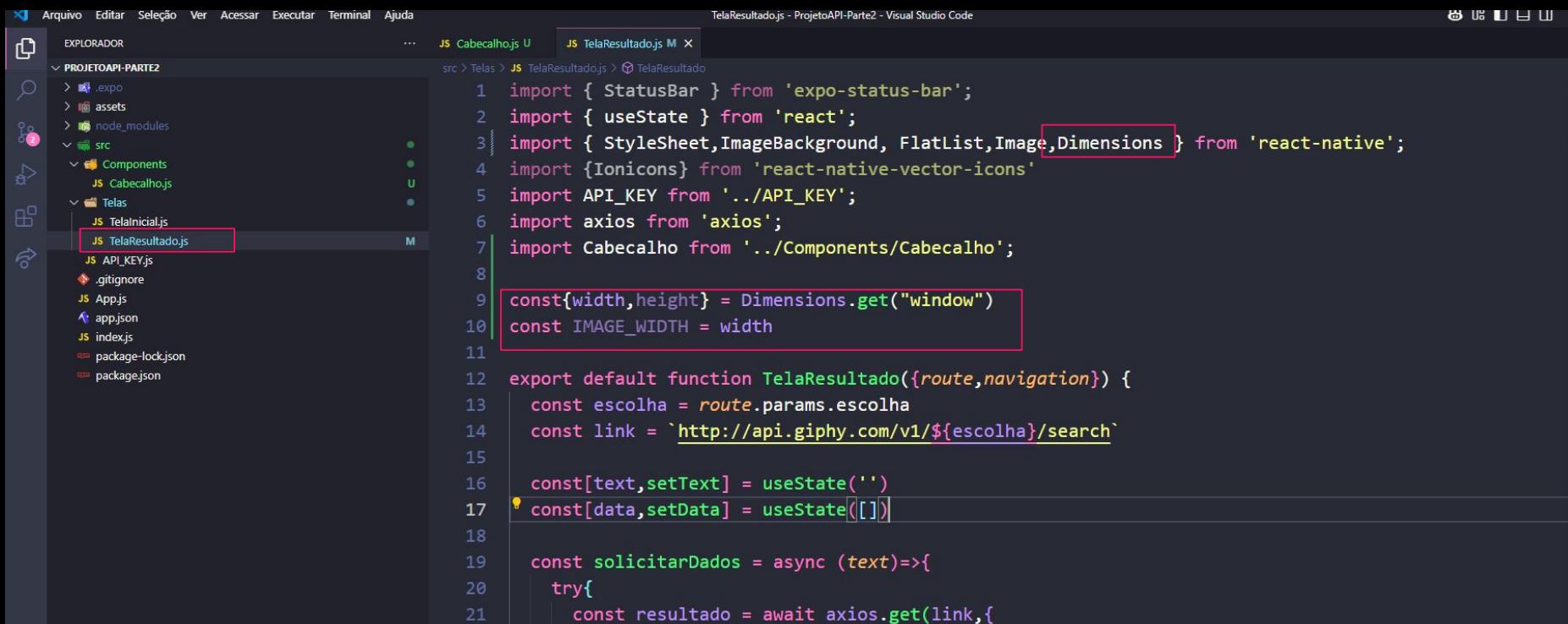
```
1  import { StyleSheet, View, TextInput } from "react-native";
2  import {Ionicons} from "react-native-vector-icons"
3
4  export default function Cabecalho({ navigation, text, setText, solicitarDados }) {
5      return (
6          <View style={styles.cabecalho}>
7              <Ionicons
8                  name="chevron-back"
9                  size={40}
10                 color="white"
11                 onPress={() => navigation.goBack()}
12             />
13             <TextInput
14                 style={styles.textInput}
15                 placeholder='Digite sua pesquisa'
16                 autoCapitalize='none'
17                 autoCorrect={false}
18                 value={text}
19                 onChangeText={(value) => setText(value)}
20             />
21             <Ionicons
22                 name="search"
23                 size={40}
24                 color='white'
25                 onPress={() => solicitarDados(text)}
26             />
27         </View>
28     )
29 }
```

# Criando o componente cabecalho.js

The screenshot shows a code editor interface with a dark theme. On the left is a file explorer sidebar titled 'EXPLORADOR' containing project files like '.expo', 'assets', 'node\_modules', 'src', 'Components', 'Telas', and various JavaScript files such as 'API\_KEY.js', 'App.js', 'index.js', and 'package.json'. The file 'JS Cabecalho.js' is selected and highlighted with a red border. The main editor area has a tab bar at the top labeled 'JS Cabecalho.js U X'. Below the tab bar, the file path is shown as 'src > Components > JS Cabecalho.js > Cabecalho'. The code itself is written in JSX and includes a StyleSheet. A red rectangular box highlights the styling section of the code.

```
4  export default function Cabecalho({ navigation, text, setText, solicitarDados }) {
25      onPress={() => solicitarDados(text)}
26      />
27      </View>
28  )
29 }
30
31 const styles = StyleSheet.create({
32     cabecalho:{
33         flexDirection:"row",
34         justifyContent:"space-between",
35         marginTop:30
36     },
37     textInput:{
38         backgroundColor:"white",
39         width:300,
40         borderRadius:10,
41         paddingLeft:10
42     }
43 });
44
```

# Renderizando as imagens com a largura da tela

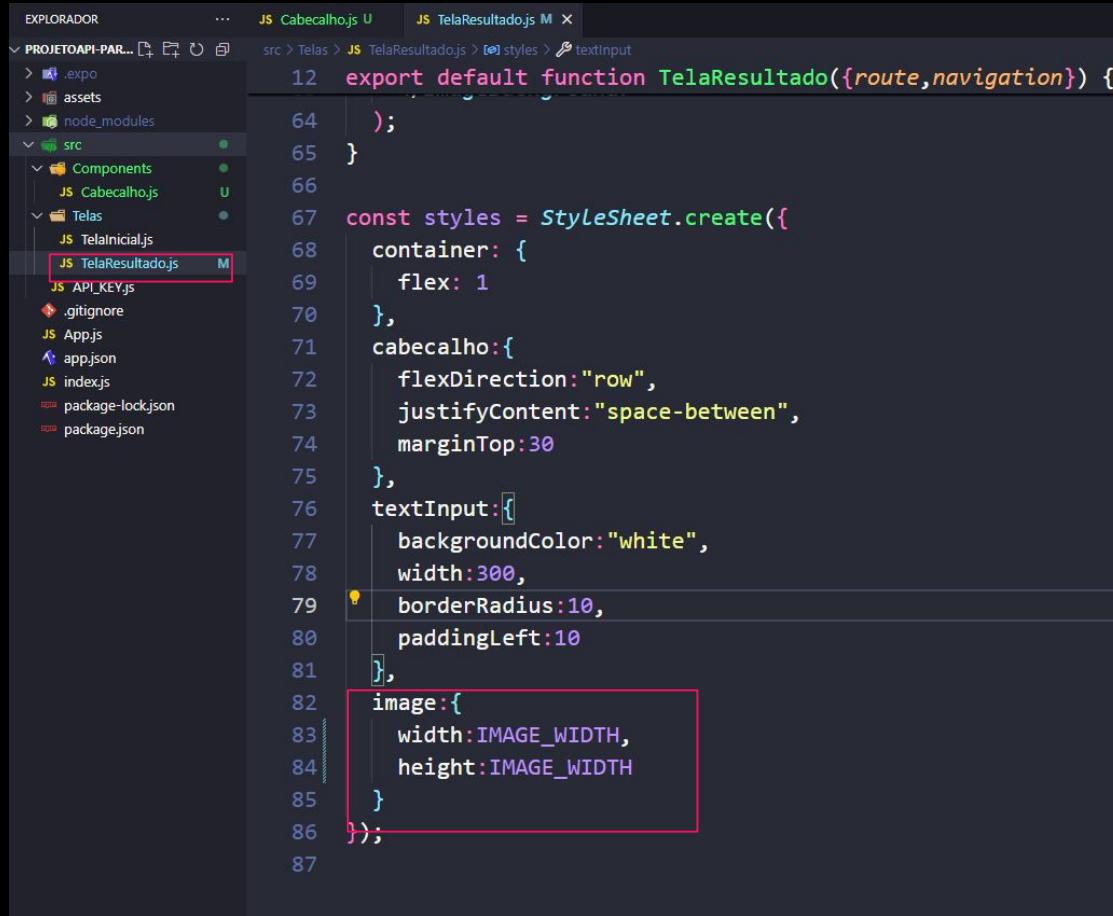


The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows the project structure under "PROJETOAPI-PART2".
  - Root: .expo, assets, node\_modules
  - src: Components (Cabecalho.js), Telas (TelaInicial.js, TelaResultado.js)
  - Others: API\_KEY.js, .gitignore, App.js, app.json, index.js, package-lock.json, package.json
- Editor:** The file "TelaResultado.js" is open. The code is written in JavaScript and imports various modules from React Native and Expo.
- Code Snippet:** Lines 9 and 10 are highlighted with a red box:

```
9 const{width,height} = Dimensions.get("window")
10 const IMAGE_WIDTH = width
```
- Terminal:** Not visible in the screenshot.

# Renderizando as imagens com a largura da tela



```
12  export default function TelaResultado({route,navigation}) {  
13  
14    );  
15  }  
16  
17  const styles = StyleSheet.create({  
18    container: {  
19      flex: 1  
20    },  
21    cabecalho:{  
22      flexDirection:"row",  
23      justifyContent:"space-between",  
24      marginTop:30  
25    },  
26    textInput:[  
27      backgroundColor:"white",  
28      width:300,  
29      borderRadius:10,  
30      paddingLeft:10  
31    ],  
32    image:{  
33      width:IMAGE_WIDTH,  
34      height:IMAGE_WIDTH  
35    }  
36  });  
37
```

# Renderizando 02 colunas na FlatList

FIAP

The screenshot shows the VS Code interface with the following details:

- Explorer View:** Shows the project structure under "PROJETOAPI-PARTE2". The file "JS TelaResultado.js" is selected and highlighted with a red border.
- File List:** Shows files like .expo, assets, node\_modules, src, Components, Telas, and TelaInicial.js.
- Code Editor:** Displays the content of "TelaResultado.js".

```
12 export default function TelaResultado({route,navigation}) {  
13     return (  
14         <ImageBackground  
15             source={require('../assets/BG.png')}  
16             style={styles.container}  
17         >  
18             <Cabecalho  
19                 navigation={navigation}  
20                 text={text}  
21                 setText={setText}  
22                 solicitarDados={solicitarDados}  
23             />  
24  
25             <FlatList  
26                 data={data}  
27                 numColumns={2}  
28                 renderItem={({item})=>{  
29                     return(  
30                         <Image  
31                             style={styles.image}  
32                             source={{uri: item.images.preview_gif.url}}  
33                     />  
34                 }}  
35             />  
36         </ImageBackground>  
37     )  
38 }  
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205
```

# Renderizando 02 colunas na FlatList

The image shows a screenshot of a code editor with a dark theme. On the left, there's an 'EXPLORADOR' sidebar showing a project structure:

- PROJETOAPI-PARTE2
- .expo
- assets
- node\_modules
- src
  - Components
    - Cabecalho.js
  - Telas
    - TelaInicial.js
    - TelaResultado.js
- API\_KEY.js
- .gitignore
- App.js
- app.json
- index.js
- package-lock.json
- package.json

The main area displays the content of the `TelaResultado.js` file:

```
JS Cabecalho.js U JS TelaResultado.js M X
src > Telas > JS TelaResultado.js > styles > textInput
12 export default function TelaResultado({route,navigation}) {
55   );
56 }
57
58 const styles = StyleSheet.create({
59   container: {
60     flex: 1
61   },
62   cabecalho: {
63     flexDirection:"row",
64     justifyContent:"space-between",
65     marginTop:30
66   },
67   textInput:[
68     {
69       backgroundColor:"white",
70       width:300,
71       borderRadius:10,
72       paddingLeft:10
73     },
74     {
75       image:{
76         width:IMAGE_WIDTH/2,
77         height:IMAGE_WIDTH/2
78       }
79     }
80   ],
81   image:{}
82 });
83
84
85
86
87 });
88
```

A red rectangular box highlights the `image:{}` section in the `textInput` array.

# Criando a TelaDetalhes e adicionando nas rotas

FIA P

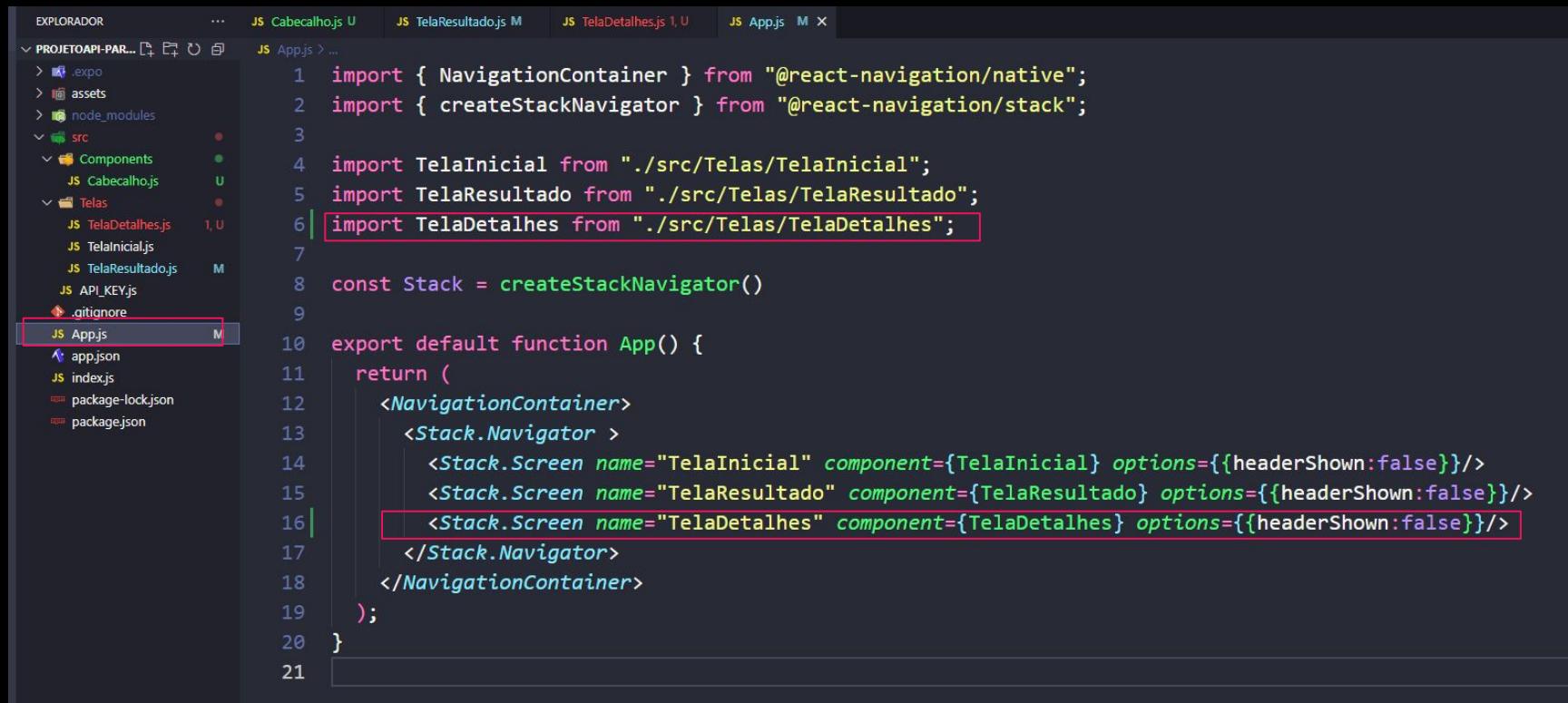
The screenshot shows a code editor interface with a dark theme. On the left is the 'EXPLORADOR' (Explorer) sidebar, which lists the project structure. In the center is the code editor area with the file 'TelaDetalhes.js' open. The file contains the following code:

```
1
2
3 export default function TelaDetalhes(){
4     return(
5         )
6     }
7 }
```

The file 'TelaDetalhes.js' is highlighted with a red border in the Explorer sidebar. The status bar at the bottom of the code editor shows the file path: 'src > Telas > JS TelaDetalhes.js'.

# Criando a TelaDetalhes e adicionando nas rotas

FIA P



The screenshot shows a code editor with the file `App.js` open. The code defines a `createStackNavigator` instance named `Stack`. It contains three `Screen` components: `TelaInicial`, `TelaResultado`, and `TelaDetalhes`. The `TelaDetalhes` component is highlighted with a red box. The `App.js` file is part of a project structure that includes files like `Cabecalho.js`, `TelaResultado.js`, and `TelaDetalhes.js`.

```
JS Cabecalho.js U JS TelaResultado.js M JS TelaDetalhes.js 1, U JS App.js M X
JS App.js > ...
1 import { NavigationContainer } from "@react-navigation/native";
2 import { createStackNavigator } from "@react-navigation/stack";
3
4 import TelaInicial from "./src/Telas/TelaInicial";
5 import TelaResultado from "./src/Telas/TelaResultado";
6 import TelaDetalhes from "./src/Telas/TelaDetalhes";
7
8 const Stack = createStackNavigator()
9
10 export default function App() {
11   return (
12     <NavigationContainer>
13       <Stack.Navigator >
14         <Stack.Screen name="TelaInicial" component={TelaInicial} options={{headerShown:false}}/>
15         <Stack.Screen name="TelaResultado" component={TelaResultado} options={{headerShown:false}}/>
16         <Stack.Screen name="TelaDetalhes" component={TelaDetalhes} options={{headerShown:false}}/>
17       </Stack.Navigator>
18     </NavigationContainer>
19   );
20 }
```

# Tornando cada imagem clicável, e passando o item clicado pelo usuário

The screenshot shows a code editor interface with a dark theme. On the left is the 'EXPLORADOR' (Explorer) sidebar, which lists the project structure. The 'src' folder contains 'Components', 'Telas', and other files like 'API\_KEY.js', '.gitignore', 'App.js', 'app.json', 'index.js', 'package-lock.json', and 'package.json'. The 'Telas' folder contains 'TelaDetalhes.js', 'TelaInicial.js', and 'TelaResultado.js'. The 'TelaResultado.js' file is currently selected and shown in the main editor area.

```
12 export default function TelaResultado({route,navigation}) {
13   const {item} = route.params
14   const [text, setText] = useState(item.title)
15   const [dados, setDados] = useState(item.dados)
16
17   const solicitarDados = () => {
18     fetch(`https://api.nasa.gov/mars-photos/api/v1/rovers/curiosity/photos?sol=1000&api_key=${process.env.API_KEY}`)
19       .then(response => response.json())
20       .then(data => {
21         const images = data.photos.filter(photo => photo.rover.name === 'Curiosity')
22         const preview_gif = images.find(image => image.pivot_x === 250 &amp; image.pivot_y === 250)
23         const preview_gif_url = `https://api.nasa.gov/mars-photos/api/v1/rover_photos?sol=1000&image_id=${preview_gif.id}&api_key=${process.env.API_KEY}`
24
25         navigation.navigate("TelaDetalhes", {item: {title: text, dados: dados, images: images, preview_gif: preview_gif, preview_gif_url: preview_gif_url}})
26       })
27   }
28
29   return (
30     <ImageBackground source={require('./assets/nasa.jpg')} style={styles.imageBackground} />
31     <ImageBackground source={require('./assets/nasa.gif')} style={styles.imageBackground} />
32     <ImageBackground source={require('./assets/nasa.png')} style={styles.imageBackground} />
33     <ImageBackground source={require('./assets/nasa.jpg')} style={styles.imageBackground} />
34     <ImageBackground source={require('./assets/nasa.gif')} style={styles.imageBackground} />
35     <ImageBackground source={require('./assets/nasa.png')} style={styles.imageBackground} />
36     <ImageBackground source={require('./assets/nasa.jpg')} style={styles.imageBackground} />
37     <ImageBackground source={require('./assets/nasa.gif')} style={styles.imageBackground} />
38     <ImageBackground source={require('./assets/nasa.png')} style={styles.imageBackground} />
39     <ImageBackground source={require('./assets/nasa.jpg')} style={styles.imageBackground} />
40     <ImageBackground source={require('./assets/nasa.gif')} style={styles.imageBackground} />
41     <ImageBackground source={require('./assets/nasa.png')} style={styles.imageBackground} />
42     <ImageBackground source={require('./assets/nasa.jpg')} style={styles.imageBackground} />
43     <ImageBackground source={require('./assets/nasa.gif')} style={styles.imageBackground} />
44     <ImageBackground source={require('./assets/nasa.png')} style={styles.imageBackground} />
45     <ImageBackground source={require('./assets/nasa.jpg')} style={styles.imageBackground} />
46     <ImageBackground source={require('./assets/nasa.gif')} style={styles.imageBackground} />
47     <ImageBackground source={require('./assets/nasa.png')} style={styles.imageBackground} />
48     <ImageBackground source={require('./assets/nasa.jpg')} style={styles.imageBackground} />
49     <ImageBackground source={require('./assets/nasa.gif')} style={styles.imageBackground} />
50     <ImageBackground source={require('./assets/nasa.png')} style={styles.imageBackground} />
51     <ImageBackground source={require('./assets/nasa.jpg')} style={styles.imageBackground} />
52     <ImageBackground source={require('./assets/nasa.gif')} style={styles.imageBackground} />
53     <ImageBackground source={require('./assets/nasa.png')} style={styles.imageBackground} />
54     <ImageBackground source={require('./assets/nasa.jpg')} style={styles.imageBackground} />
55     <ImageBackground source={require('./assets/nasa.gif')} style={styles.imageBackground} />
56     <ImageBackground source={require('./assets/nasa.png')} style={styles.imageBackground} />
57     <ImageBackground source={require('./assets/nasa.jpg')} style={styles.imageBackground} />
58     <ImageBackground source={require('./assets/nasa.gif')} style={styles.imageBackground} />
59     <ImageBackground source={require('./assets/nasa.png')} style={styles.imageBackground} />
60     <ImageBackground source={require('./assets/nasa.jpg')} style={styles.imageBackground} />
61     <ImageBackground source={require('./assets/nasa.gif')} style={styles.imageBackground} />
62     <ImageBackground source={require('./assets/nasa.png')} style={styles.imageBackground} />
63     </ImageBackground>
```

The code in the editor implements a function component named 'TelaResultado'. It receives 'route' and 'navigation' props. It uses the 'useState' hook to manage the state of 'text' and 'dados'. It defines a 'solicitarDados' function to fetch Mars photos from the NASA API. The component then returns a series of nested 'ImageBackground' components, each with a different image source and style. A red box highlights the section of code where a 'TouchableOpacity' component is used to wrap an 'Image' component, with its 'onPress' prop set to a function that navigates to the 'TelaDetalhes' screen, passing the current 'item' as a parameter.

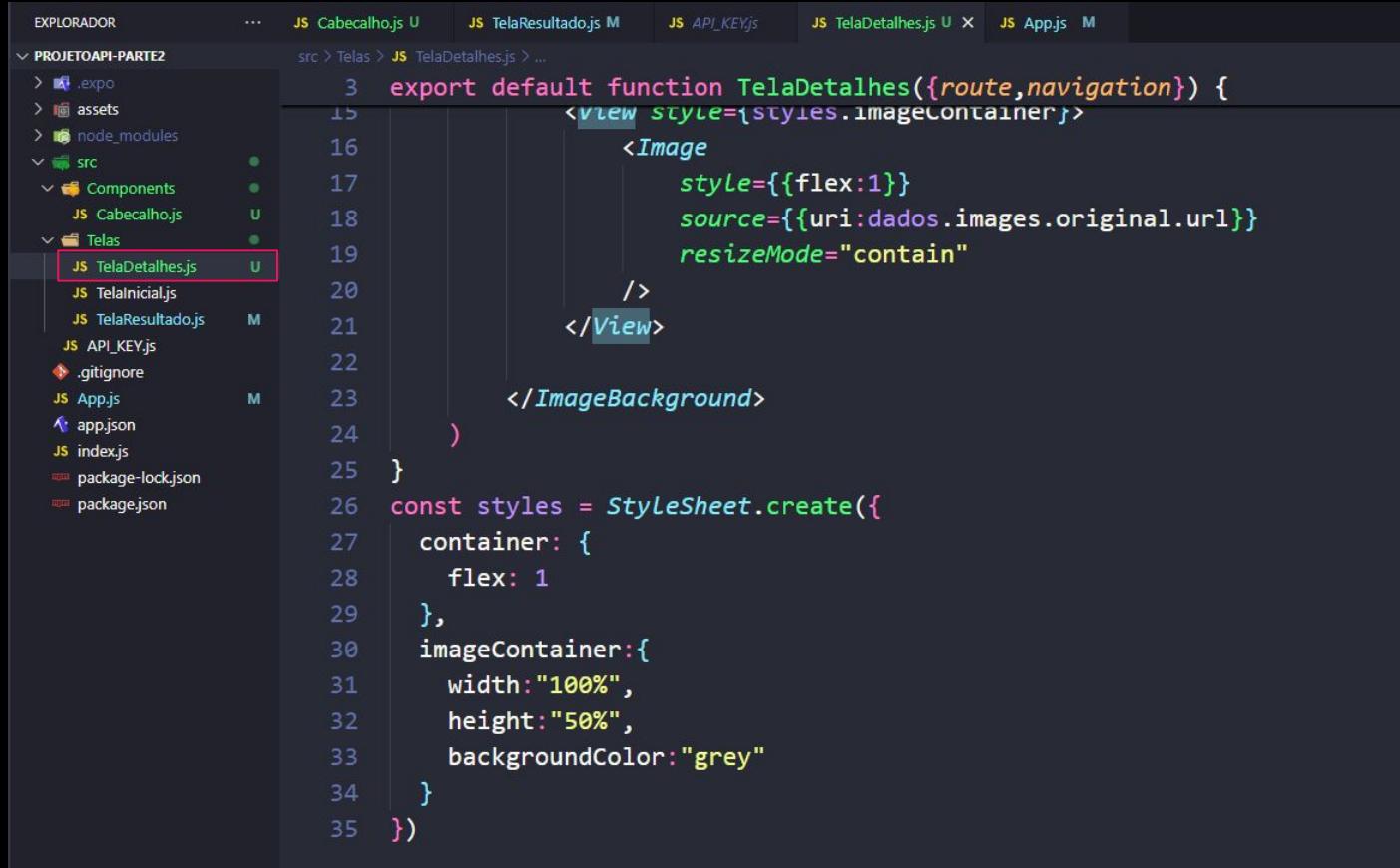
# TelaDetalhes

The screenshot shows a code editor interface with the following details:

- EXPLORADOR**: A sidebar listing project files and folders.
- Arquivos abertos**: Cabecalho.js, TelaResultado.js, API\_KEY.js, TelaDetalhes.js (atualmente selecionado), e App.js.
- Caminho**: src > Telas > TelaDetalhes.js
- Código (TelaDetalhes.js):**

```
1 import { ImageBackground, Text, StyleSheet, SafeAreaView } from "react-native"
2 import {Ionicons} from "react-native-vector-icons"
3 export default function TelaDetalhes({route,navigation}) {
4     const dados = route.params.item
5     return (
6         <ImageBackground
7             source={[require('../assets/BG.png')]}
8             style={styles.container}
9         >
10            <SafeAreaView style={{flexDirection:'row',marginTop:30}}>
11                <Ionicons name="chevron-back" size={40} color="white" onPress={()=>navigation.goBack()} />
12                <Text style={{fontSize:30,color:'white'}}>Detalhes</Text>
13            </SafeAreaView>
14        </ImageBackground>
15    )
16 }
17 }
18 const styles = StyleSheet.create({
19     container: {
20         flex: 1
21     }
22 })
```

# Renderizando gif na TelaDetalhes



The screenshot shows a code editor interface with a dark theme. On the left is the Explorer sidebar, which lists the project structure. A red box highlights the file 'TelaDetalhes.js' under the 'src/Telas' folder. The main area displays the code for 'TelaDetalhes.js'. The code uses React Native syntax to render an image from a URL defined in the 'dados' object.

```
3  export default function TelaDetalhes({route,navigation}) {
15    <View style={styles.imageContainer}>
16      <Image
17        style={{flex:1}}
18        source={{uri:dados.images.original.url}}
19        resizeMode="contain"
20      />
21    </View>
22    </ImageBackground>
23  )
24}
25}
26const styles = StyleSheet.create({
27  container: {
28    flex: 1
29  },
30  imageContainer:{
31    width:"100%",
32    height:"50%",
33    backgroundColor:"grey"
34  }
35 })
```

# Colocando o título e o ícone de globe

The screenshot shows a code editor with a dark theme. The left sidebar displays the project structure:

- PROJETOAPI-PAR...
- .expo
- assets
- node\_modules
- src
  - Components
    - Cabecalho.js
  - Telas
    - TelaDetalhes.js (highlighted with a red box)
    - TelaInicial.js
    - TelaResultado.js
- API\_KEY.js
- .gitignore
- App.js
- app.json
- index.js
- package-lock.json
- package.json

The current file is `TelaDetalhes.js`, and the code is as follows:

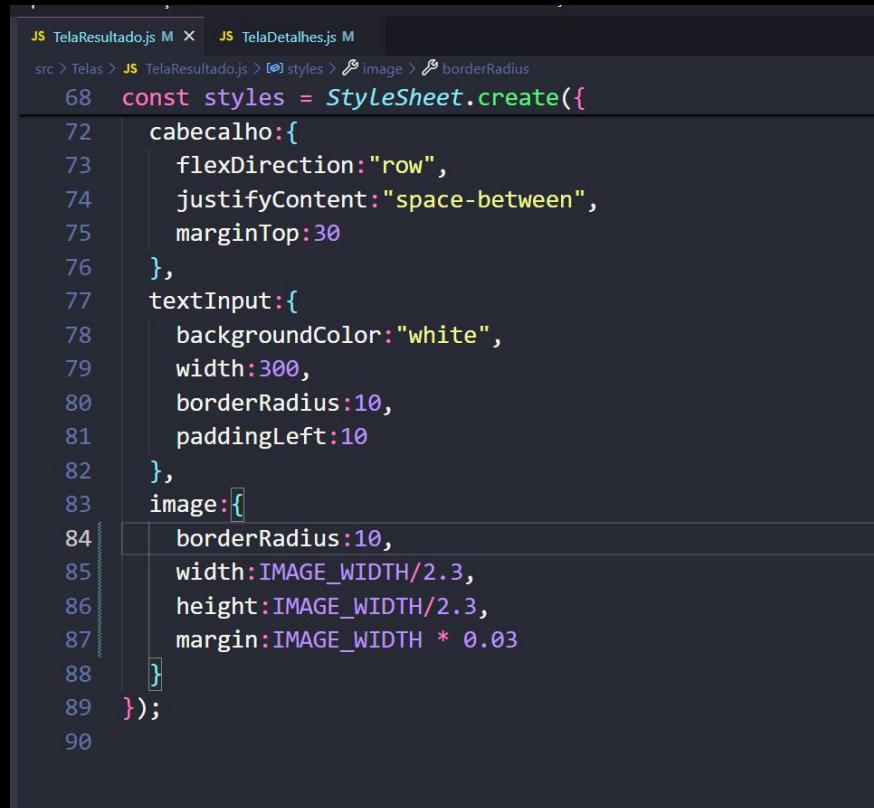
```
export default function TelaDetalhes({ route, navigation }) {  
  const dados = route.params.dados;  
  
  return (  
    <SafeAreaView style={{ flexDirection: 'row', marginTop: 30 }}>  
      <Ionicons name="chevron-back" size={40} color="white" onPress={() => navigation.goBack()} />  
      <Text style={{ fontSize: 30, color: 'white' }}>Detalhes</Text>  
    </SafeAreaView>  
  
    <View style={styles.imageContainer}>  
      <Image  
        style={{ flex: 1 }}  
        source={{ uri: dados.images.original.url }}  
        resizeMode="contain"  
      />  
    </View>  
    <View style={{flexDirection:'row'}>  
      <Text style={{ fontSize: 22, color: 'white', width: "80%" }}>{dados.title}</Text>  
      <Ionicons name="globe" size={40} color="white" />  
    </View>  
  </ImageBackground>  
);  
}
```

A red box highlights the section of the code where the title and globe icon are rendered. The code uses the `Ionicons` library for the globe icon.

# Configurando para que o ícone globe abra o FIAP navegador com o gif selecionado

```
JS Cabeçalho.js U JS TelaResultado.js M JS API_KEY.js JS TelaDetalhes.js U JS App.js M
src > Telas > JS TelaDetalhes.js > TelaDetalhes
  3 export default function TelaDetalhes({ route, navigation }) {
  4   <SafeAreaView style={{ flex: 1, margin: 10 }}>
  5     <Ionicons name="chevron-back" size={40} color="white" onPress={() => navigation.goBack()} />
  6     <Text style={{ fontSize: 30, color: 'white' }}>Detalhes</Text>
  7   </SafeAreaView>
  8
  9   <View style={styles.imageContainer}>
 10     <Image
 11       style={{ flex: 1 }}
 12       source={{ uri: dados.images.original.url }}
 13       resizeMode="contain"
 14     />
 15   </View>
 16   <View style={{ flexDirection: 'row' }}>
 17     <Text style={{ fontSize: 22, color: 'white', width: "80%" }}>{dados.title}</Text>
 18     <TouchableOpacity onPress={()=>Linking.openURL(dados.images.original.url)}>
 19       <Ionicons name="globe" size={40} color="white" />
 20     </TouchableOpacity>
 21   </View>
 22
 23   <ImageBackground source={{ uri: dados.images.original.url }} style={{ flex: 1 }}>
 24     <View style={{ flex: 1, padding: 10 }}>
 25       <Text style={{ color: 'white', opacity: 0.8 }}>{dados.title}</Text>
 26       <Text style={{ color: 'white', opacity: 0.8 }}>{dados.descricao}</Text>
 27     </View>
 28   </ImageBackground>
 29
 30   <ImageBackground source={{ uri: dados.images.original.url }} style={{ flex: 1 }}>
 31     <View style={{ flex: 1, padding: 10 }}>
 32       <Text style={{ color: 'white', opacity: 0.8 }}>{dados.title}</Text>
 33     </View>
 34   </ImageBackground>
 35
 36   <ImageBackground source={{ uri: dados.images.original.url }} style={{ flex: 1 }}>
 37     <View style={{ flex: 1, padding: 10 }}>
 38       <Text style={{ color: 'white', opacity: 0.8 }}>{dados.title}</Text>
```

# Colocando espaçamento entre os gifs



The screenshot shows a code editor with two tabs: 'JS TelaResultado.js M' and 'JS TelaDetalhes.js M'. The current file is 'TelaResultado.js'. The code is a snippet of CSS styles defined using StyleSheet.create(). The styles include:

- A 'cabecalho' style with flex-direction: "row", justifyContent: "space-between", and marginTop: 30.
- A 'textInput' style with backgroundColor: "white", width: 300, borderRadius: 10, and paddingLeft: 10.
- An 'image' style with borderRadius: 10, width: IMAGE\_WIDTH/2.3, height: IMAGE\_WIDTH/2.3, and margin: IMAGE\_WIDTH \* 0.03.

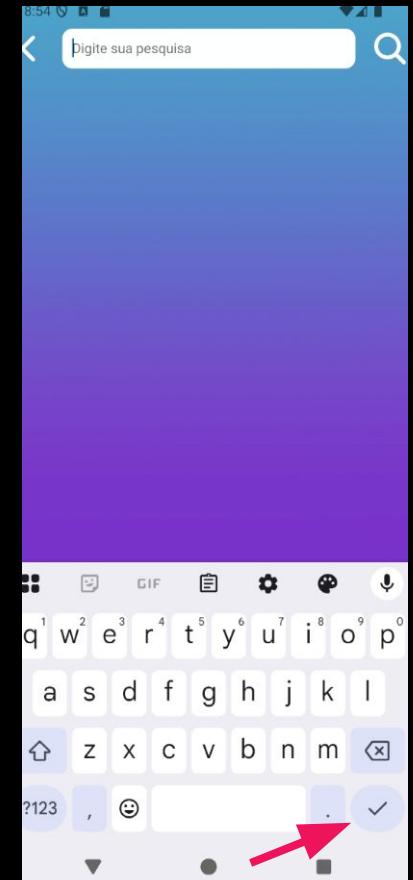
```
JS TelaResultado.js M X JS TelaDetalhes.js M
src > Telas > JS TelaResultado.js > styles > image > borderRadius
68 const styles = StyleSheet.create({
72   cabecalho:{
73     flexDirection:"row",
74     justifyContent:"space-between",
75     marginTop:30
76   },
77   textInput:{
78     backgroundColor:"white",
79     width:300,
80     borderRadius:10,
81     paddingLeft:10
82   },
83   image:[
84     borderRadius:10,
85     width:IMAGE_WIDTH/2.3,
86     height:IMAGE_WIDTH/2.3,
87     margin:IMAGE_WIDTH * 0.03
88   ]
89 });
90 );
```

Adicionando a função solicitar para o botão F1^P  
do teclado (botão ok)

The screenshot shows a code editor with the following details:

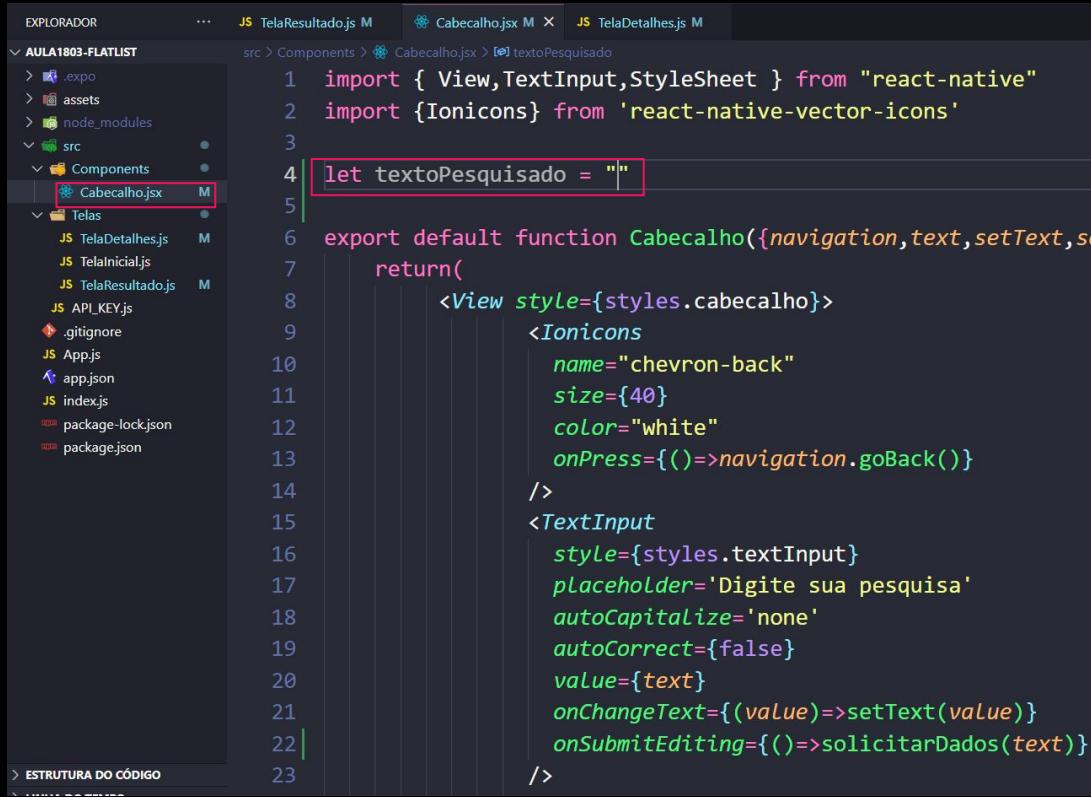
- File Structure:** The left sidebar shows the project structure under "src":
  - Components
  - Cabecalho.jsx (highlighted with a red box)
- Code Editor:** The main area displays the code for `Cabecalho.jsx`.

```
4  export default function Cabecalho({navigation, text, setText, solicitarDados}) {
5    const [textValue, onChangeText] = useState(text);
6
7    return (
8      <View>
9        <Text>{text}</Text>
10       <TextInput
11         value={textValue}
12         onChangeText={onChangeText}
13         onSubmitEditing={onSubmitEditing}
14       </TextInput>
15       <Ionicons
16         name="search"
17         size={40}
18         color='white'
19         onPress={()=>solicitarDados(text)}
20       </Ionicons>
21     </View>
22   );
23 }
24
25
26
27
28
29 )
30 }
```
- Toolbars:** The top bar shows tabs for `TelaResultado.jsx`, `Cabecalho.jsx`, and `TelaDetalhes.jsx`. The `Cabecalho.jsx` tab is active.
- Bottom Bar:** The bottom bar includes a "ESTRUTURA DO CÓDIGO" button.



# Criando a vário para armazenar o texto pesquisado pelo usuário

FIAP

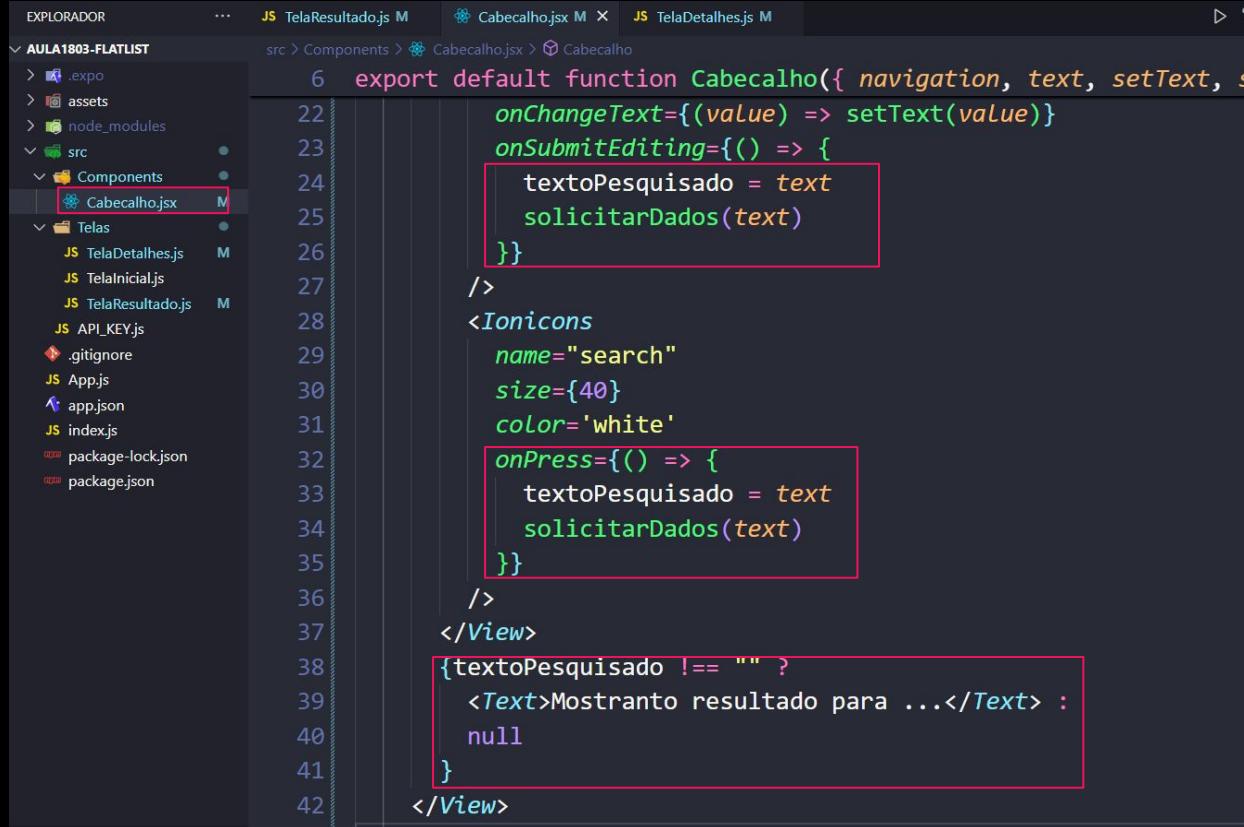


The screenshot shows a code editor interface with the following details:

- File Explorer:** Shows the project structure under "AULA1803-FLATLIST". The "Components" folder contains "Cabecalho.jsx", which is currently selected.
- Code Editor:** The file "Cabecalho.jsx" is open. The code defines a functional component "Cabecalho" that returns a view containing a back arrow icon and a text input field for searching.
- Code Content:**

```
1 import { View, TextInput, StyleSheet } from "react-native"
2 import {Ionicons} from 'react-native-vector-icons'
3
4 let textoPesquisado = ""
5
6 export default function Cabecalho({navigation, text, setText, so
7     return(
8         <View style={styles.cabecalho}>
9             <Ionicons
10                 name="chevron-back"
11                 size={40}
12                 color="white"
13                 onPress={()=>navigation.goBack()}
14             />
15             <TextInput
16                 style={styles.textInput}
17                 placeholder='Digite sua pesquisa'
18                 autoCapitalize='none'
19                 autoCorrect={false}
20                 value={text}
21                 onChangeText={(value)=>setText(value)}
22                 onSubmitEditing={()=>solicitarDados(text)}
23             />
```

# Armazenando a pesquisa feita pelo usuário na variável



```
JS TelaResultado.js M Cabecalho.jsx M JS TelaDetalhes.js M
src > Components > Cabecalho.jsx > Cabecalho
6  export default function Cabecalho({ navigation, text, setText, s
22    onChangeText={(value) => setText(value)}
23    onSubmitEditing={() => {
24      textoPesquisado = text
25      solicitarDados(text)
26    }
27  }
28  <Ionicons
29    name="search"
30    size={40}
31    color='white'
32    onPress={() => {
33      textoPesquisado = text
34      solicitarDados(text)
35    }
36  }
37  </View>
38  {textoPesquisado !== "" ?
39    <Text>Mostranto resultado para ...</Text> :
40    null
41  }
42  </View>
```

Obs: Envolver uma view externa

# Aplicando o desing para a msg “Mostrando FIA P resultado para ...”

```
JS TelaResultado.js M Cabecalho.jsx M JS TelaDetalhes.js M
EXPLORADOR ...
AULA1... .expo assets node_modules src ...
src > Components > Cabecalho.jsx > Cabecalho
6  export default function Cabecalho({ navigation, text, setText, solicitarDados }) {
38    if(textoPesquisado !== "") {
39      <Text style={styles.white}>Mostranto resultado para ...<Text style={styles.whiteBold}>{textoPesquisado}</Text>
40      null
41    }
42  </View>
43
44}
45
46 const styles = StyleSheet.create({
47   cabecalho: {
48     flexDirection: "row",
49     justifyContent: "space-between",
50     marginTop: 30
51   },
52   textInput: {
53     backgroundColor: "white",
54     width: 300,
55     borderRadius: 10,
56     paddingLeft: 10
57   },
58   white: {
59     fontSize: 16,
60     marginLeft: 10,
61     marginTop: 15,
62     color: 'white'
63   },
64   whiteBold: {
65     fontSize: 16,
```

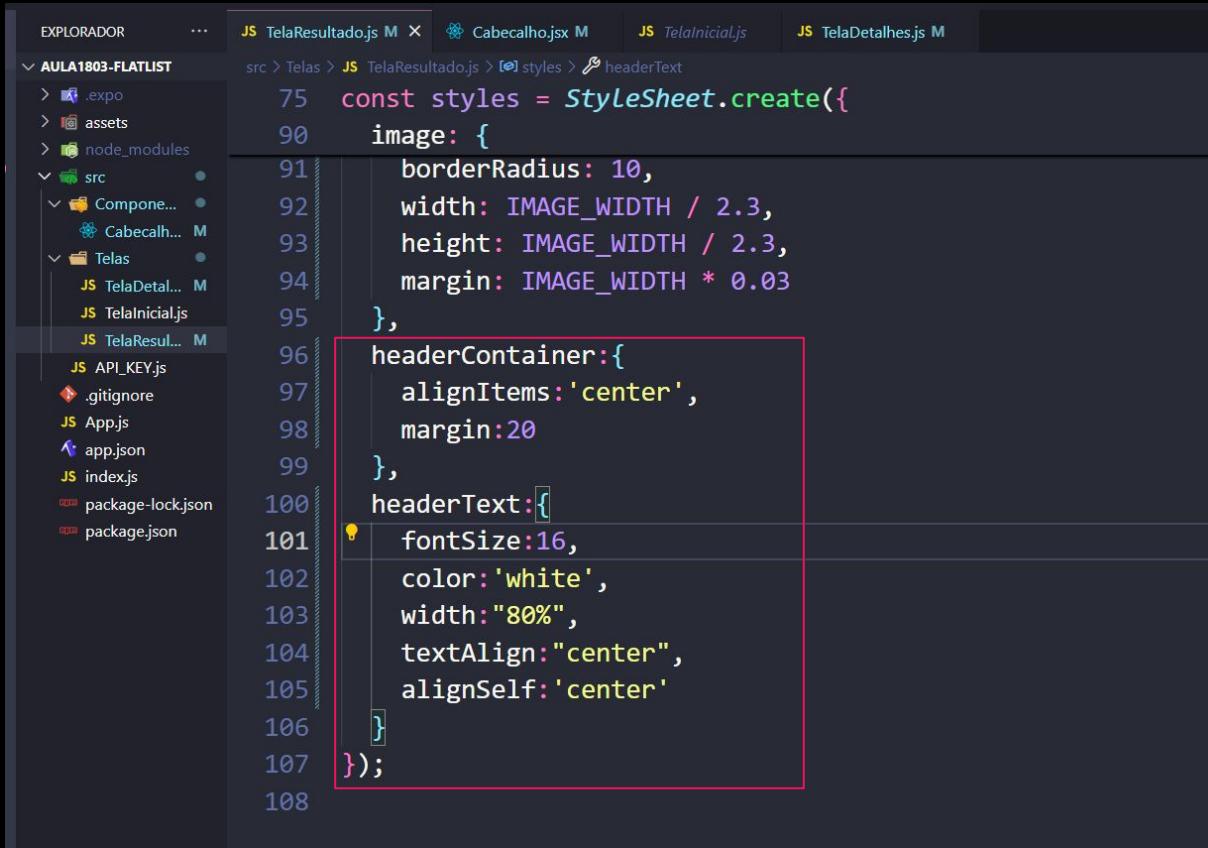
# Criando info para usuário efetuar a busca

The screenshot shows a code editor interface with a dark theme. On the left is the Explorer panel, which lists project files including `AULA1...`, `.expo`, `assets`, `node_modules`, and a `src` folder containing `Compone...`, `Cabecalh...`, `Telas`, `TelaDetal...`, `TelaInicial.js`, `TelaResul...`, `API_KEY.js`, `gitignore`, `App.js`, `app.json`, `index.js`, `package-lock.json`, and `package.json`. The main editor area displays the `TelaResultado.js` file, which contains the following code:

```
12 export default function TelaResultado({ route, navigation }) {
47
48
49 <FlatList
50   data={data}
51   numColumns={2}
52   ListHeaderComponent={
53     <View>
54       <Ionicons name="arrow-up" size={40} color="white" />
55       <Text>Use a barra de pesquisa para encontrar o que buscar</Text>
56     </View>
57   }
58   renderItem={({ item }) => {
59     return (
60       <TouchableOpacity onPress={() => navigation.navigate("TelaDetalhes", { item: item })}
61         <Image
62           style={styles.image}
63           source={{ uri: item.images.preview_gif.url }}
64         />
65       </TouchableOpacity>
66     )
67   }
68 }
```

The code defines a `FlatList` component with a header that includes an arrow icon and a search placeholder. It also defines a `renderItem` function that creates a `TouchableOpacity` with an `Image` component.

# Criando os designs



The screenshot shows a code editor with a dark theme. On the left is the Explorer sidebar, which lists the project structure. The main area displays the code for `TelaResultado.js`. The code uses `StyleSheet.create` to define styles for several components, including `image`, `headerContainer`, and `headerText`. A red box highlights the styling for `headerText`.

```
JS TelaResultado.js M X Cabecalho.jsx M JS Telainicial.js JS TelaDetalhes.js M
src > Telas > JS TelaResultado.js > styles > headerText
75 const styles = StyleSheet.create({
90   image: {
91     borderRadius: 10,
92     width: IMAGE_WIDTH / 2.3,
93     height: IMAGE_WIDTH / 2.3,
94     margin: IMAGE_WIDTH * 0.03
95   },
96   headerContainer: {
97     alignItems: 'center',
98     margin: 20
99   },
100  headerText: [
101    {
102      fontSize: 16,
103      color: 'white',
104      width: "80%",
105      textAlign: "center",
106      alignSelf: 'center'
107    }
108  });
109
```

# Componetizando o TextoInfo

The screenshot shows a code editor interface with the following details:

- File Structure:** The left sidebar shows the project structure: AULA1..., src, Components, TextoInfo.js, Cabecalho.js, TelaInicial.js, TelaDetalhes.js, API\_KEY.js, .gitignore, App.js, app.json, index.js, package-lock.json, and package.json.
- Current File:** The main editor area is displaying the `TextoInfo.js` file.
- Code Content:** The code defines a functional component `TextoInfo` that returns a `<View>` component with a header icon and text. It also defines a `StyleSheet` object with styles for `headerContainer` and `headerText`.

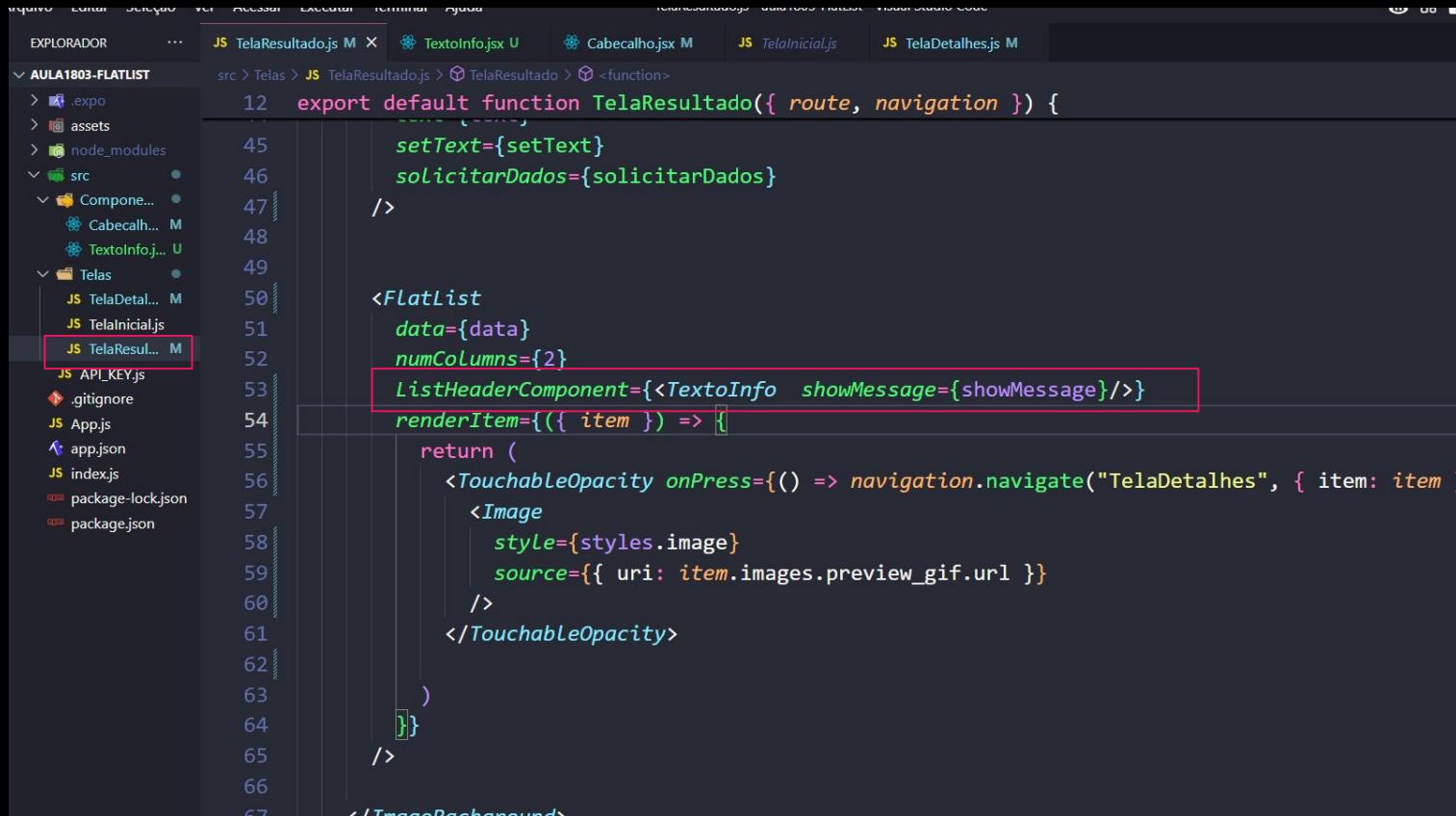
```
import { View, StyleSheet, Text } from "react-native"
import { Ionicons } from "react-native-vector-icons"

export default function TextoInfo(){
    return(
        <View style={styles.headerContainer}>
            <Ionicons name="arrow-up" size={40} color="white" />
            <Text style={styles.headerText}>Use a barra de pesquisa para encontrar o que t...
        </View>
    )
}

const styles = StyleSheet.create({
    headerContainer:{
        alignItems:'center',
        margin:20
    },
    headerText:{
        fontSize:16,
        color:'white',
        width:"80%",
        textAlign:"center",
        alignSelf:'center'
    }
});
```

**Bottom Bar:** The bottom bar displays the text "ESTRUTURA DO CÓDIGO".

# Criando uma propriedade para o componente FlatList criando no slide anterior



The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows the project structure under "AULA1803-FLATLIST". The file "TelaResultado.js" is selected and highlighted with a red box.
- Code Editor:** Displays the code for "TelaResultado.js". A red box highlights the "ListHeaderComponent" prop in the `<FlatList` component.
- Status Bar:** Shows the current file path: "src > Telas > JS TelaResultado.js > TelaResultado > <function>".

```
12 export default function TelaResultado({ route, navigation }) {  
13     const { data } = route.params;  
14  
15     const [setText, setText] = useState("");  
16     const [solicitarDados, solicitarDados] = useState(false);  
17  
18     const [header, setHeader] = useState(  
19         {  
20             title: "Carregando...",  
21             message: "Por favor, aguarde..."  
22         }  
23     );  
24  
25     const [loading, setLoading] = useState(true);  
26  
27     const [error, setError] = useState(null);  
28  
29     const [gif, setGif] = useState(null);  
30  
31     const [image, setImage] = useState(null);  
32  
33     const [text, setTexto] = useState("");  
34  
35     const [list, setList] = useState([]);  
36  
37     const [isLast, setIsLast] = useState(false);  
38  
39     const [isFirst, setIsFirst] = useState(true);  
40  
41     const [isError, setIsError] = useState(false);  
42  
43     const [isImage, setIsImage] = useState(false);  
44  
45     const [isText, setIsText] = useState(true);  
46  
47     const [isHeader, setIsHeader] = useState(true);  
48  
49  
50     <FlatList  
51         data={data}  
52         numColumns={2}  
53         ListHeaderComponent={<TextInfo showMessage={showMessage}/>}  
54         renderItem={({ item }) => {  
55             return (  
56                 <TouchableOpacity onPress={() => navigation.navigate("TelaDetalhes", { item: item })}  
57                     <Image  
58                         style={styles.image}  
59                         source={{ uri: item.images.preview_gif.url }}  
60                     />  
61                     </TouchableOpacity>  
62             )  
63         }}  
64     />  
65  
66     </Text>  
67 }
```

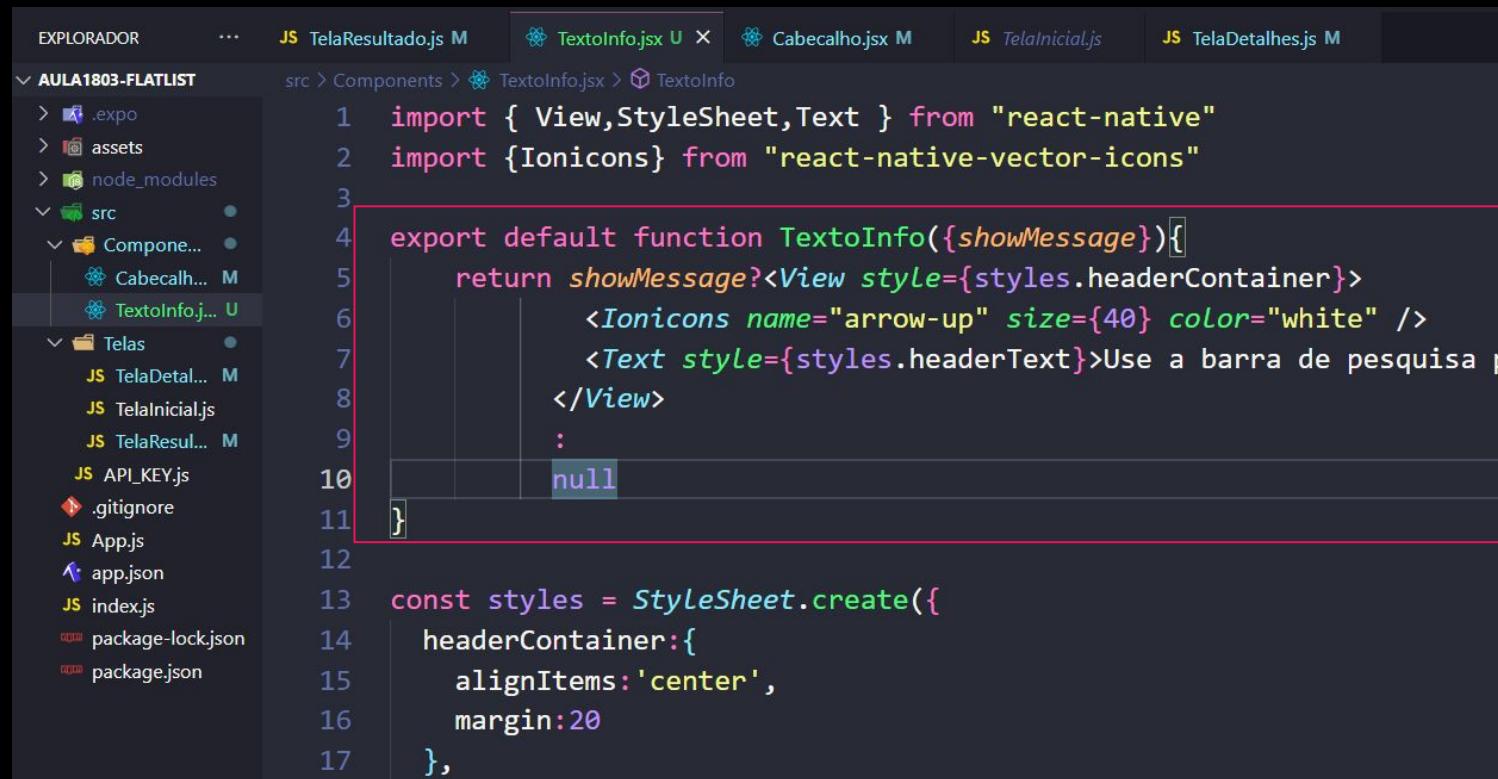
# Criando um estado

The screenshot shows a code editor interface with a dark theme. On the left is the Explorer sidebar, which lists the project structure. The main area displays a file named `TelaResultado.js`. The code uses functional components and the `useState` hook from React. A specific line of code, `const [showMessage, setShowMessage] = useState(true)`, is highlighted with a red rectangular border.

```
1 import { use, useState } from 'react';
2 import { Text, StyleSheet, View, ImageBackground, TextInput, FlatList, Dimensions } from 'react-native';
3 import { Ionicons } from 'react-native-vector-icons';
4 import { Image } from 'expo-image';
5 import API_KEY from '../API_KEY';
6 import axios from 'axios';
7 import Cabecalho from '../Components/Cabecalho';
8 import TextoInfo from '../Components/TextoInfo';
9 const { width, height } = Dimensions.get("window")
10 const IMAGE_WIDTH = width
11
12 export default function TelaResultado({ route, navigation }) {
13   const escolha = route.params.escolha
14   const link = `http://api.giphy.com/v1/${escolha}/search`
15
16   const [text, setText] = useState('')
17   const [data, setData] = useState([])
18   const [showMessage, setShowMessage] = useState(true)
19 }
```

# Criando a condição para exibir ou não o cabeçalho da FlatList

FIAP



The screenshot shows the VS Code interface with the following details:

- File Explorer:** Shows the project structure under "AULA1803-FLATLIST".
- Text Editor:** Displays the "TextoInfo.js" file content.
- Tab Bar:** Includes tabs for "TelaResultado.js", "TextoInfo.js", "Cabecalho.js", "TelaInicial.js", and "TelaDetalhes.js".

```
1 import { View, StyleSheet, Text } from "react-native"
2 import { Ionicons } from "react-native-vector-icons"
3
4 export default function TextoInfo({showMessage}){
5     return showMessage?<View style={styles.headerContainer}>
6         <Ionicons name="arrow-up" size={40} color="white" />
7         <Text style={styles.headerText}>Use a barra de pesquisa p
8         </View>
9     :
10    null
11 }
12
13 const styles = StyleSheet.create({
14     headerContainer:{
15         alignItems:'center',
16         margin:20
17     },
18 }
```

# Ocultando o cabeçalho da FlatList

The screenshot shows a code editor interface with a dark theme. On the left is a sidebar labeled 'EXPLORADOR' containing project files: .expo, assets, node\_modules, src (with components like Cabecalho.jsx and TextoInfo.jsx), Telas (with TelaInicial.js and TelaDetalhes.js), and TelaResultado.js (which is currently selected and highlighted with a red border). The main area displays the code for TelaResultado.js:

```
12 export default function TelaResultado({ route, navigation }) {
13   const link = route.params.link;
14
15   const [dados, setDados] = useState([]);
16
17   const [showMessage, setShowMessage] = useState(true);
18
19   const solicitarDados = async (text) => {
20     try {
21       const resultado = await axios.get(link, {
22         params: {
23           api_key: API_KEY,
24           q: text,
25           lang: "pt"
26         }
27       })
28       //console.log(resultado.data.data.images)
29       setShowMessage(false)
30       setData(resultado.data.data)
31     } catch (err) {
32       console.log(err)
33     }
34   }
35
36 }
```

Specific sections of the code are highlighted with red boxes: the variable declaration 'const solicitarDados = ...', the 'setShowMessage(false)' call, and the 'setData(resultado.data.data)' call.

# Mostrando indicador de Loading

# Componente Loading

The screenshot shows a Visual Studio Code interface with the following details:

- File Explorer:** Shows the project structure under "AULA2103-FLATLIST". The "Components" folder contains "Cabecalho.jsx", "Loading.jsx" (which is selected and highlighted with a red border), and "TextoInfo.jsx".
- Editor:** Displays the code for "Loading.jsx". The code defines a functional component "Loading" that returns an "ActivityIndicator" if "isLoading" is true, or "null" otherwise.
- Status Bar:** Shows the current file is "Loading.jsx - aula2103-FlatList - Visual Studio Code".

```
1 import {ActivityIndicator} from "react-native"
2
3 export default Loading = ({isLoading}) =>{
4     return isLoading?
5         <ActivityIndicator
6             color='white'
7             size={40}
8             style={{margin:20}}
9         />
10    )
11    :
12    null
13 }
```

# Criando o state

The screenshot shows a code editor with a dark theme. The left sidebar displays the project structure:

- EXPLORADOR
- ... (dropdown menu)
- JS TelaDetalhes.js M
- JS TelaResultado.js M X
- Loading.jsx U
- TextoInfo.jsx U
- JS Telainicial.js M

src > Telas > JS TelaResultado.js > TelaResultado > solicitarDados > resultado

File tree:

- > .expo
- > assets
- > node\_modules
- src
  - Components
    - Cabecalho.jsx
    - Loading.jsx
    - TextoInfo.jsx
  - Telas
    - JS TelaDetalhes.js M
    - JS TelaInicial.js M
    - JS TelaResultado.js M

Files listed in the sidebar:

- API\_KEY.js
- .gitignore
- App.js
- app.json
- index.js
- package-lock.json
- package.json

The main code editor area contains the following code:

```
15 export default function TelaResultado({ route, navigation }) {  
16   const link = `http://api.giphy.com/v1/${escolha}/search`  
17   const [text, setText] = useState('')  
18   const [dados, setDados] = useState([])  
19   const [showMessage, setShowMessage] = useState(true)  
20   const [isLoading, setIsLoading] = useState(false)  
21  
22   const solicitarDados = async (text) => {  
23     setIsLoading(true)  
24     setShowMessage(false)  
25     try {  
26       const resultado = await axios.get(link, {  
27         params: {  
28           api_key: API_KEY,  
29           q: text  
30         }  
31       })  
32       setIsLoading(false)  
33       setDados(resultado.data.data)  
34     }  
35   }  
36  
37   return (  
38     <View>  
39       <Text>{text}</Text>  
40       <Text>{dados}</Text>  
41     </View>  
42   )  
43 }
```

# Mostrando o loading no cabeçalho da FlatList

The screenshot shows a code editor interface with the following details:

- EXPLORADOR** (Explorer) sidebar on the left showing project structure and files.
- File tree:
  - AULA2103-FLA...
  - .expo
  - assets
  - node\_modules
  - src
    - Components
      - Cabecalho.jsx
      - Loading.jsx
      - TextoInfo.jsx
    - Telas
      - TelaDetalhes.js
      - TelaInicial.js
      - TelaResultado.js** (highlighted with a red box)
  - API\_KEY.js
  - .gitignore
  - App.js
  - app.json
  - index.js
  - package-lock.json
  - package.json
- File tabs at the top: TelaDetalhes.js, TelaResultado.js (highlighted with a red box), Loading.jsx, TextoInfo.jsx, TelaInicial.js.
- Current file content (TelaResultado.js):

```
15  export default function TelaResultado({ route, navigation }) {  
49      setText={setText}  
50      navigation={navigation}  
51      solicitarDados={solicitarDados}  
52  }  
53  
54  <FlatList  
55      data={dados}  
56      numColumns={2}  
57      ListHeaderComponent={  
58          <>  
59              <TextoInfo showMessage={showMessage} />  
60              <Loading isLoading={isLoading} />  
61          </>  
62      }  
63  
64  }  
65      renderItem={({ item }) => {  
66          return (  
67      )}}  
68  }  
69  
```

# Implementando página de erro e paginação

# Criando estado

The screenshot shows a code editor interface with the following details:

- File Explorer:** Shows the project structure under "AULA2103-TELADETALHES". Key files include .expo, assets, node\_modules, src (with Components, Telas, and others), and various JS files like Cabecalho.jsx, Error.jsx, Loading.jsx, TextoInfo.jsx, TelaDetalhes.js, TelaInicial.js, and TelaResultado.js (which is currently selected).
- Code Editor:** The file `TelaResultado.js` is open. The code uses functional components and hooks from React and axios to fetch data from an API.
- Code Content:**

```
14
15
16 export default function TelaResultado({ route, navigation }) {
17   const escolha = route.params.escolha
18   const link = `http://api.giphy.com/v1/${escolha}/search`
19
20   const [text, setText] = useState('')
21   const [dados, setDados] = useState([])
22   const [showMessage, setShowMessage] = useState(true)
23   const [isLoading, setIsLoading] = useState(false)
24   const [showError, setShowErro] = useState(false)
25
26
27   const solicitarDados = async (text) => {
28     Keyboard.dismiss()
29     setIsLoading(true)
30     try {
31       const resultado = await axios.get(link, {
32         params: {
33           api_key: API_KEY,
34           q: text
35         }
36       })
37       setDados(resultado.data.data)
38       setShowMessage(false)
39     } catch (error) {
40       setShowErro(true)
41     }
42   }
43
44 }
```

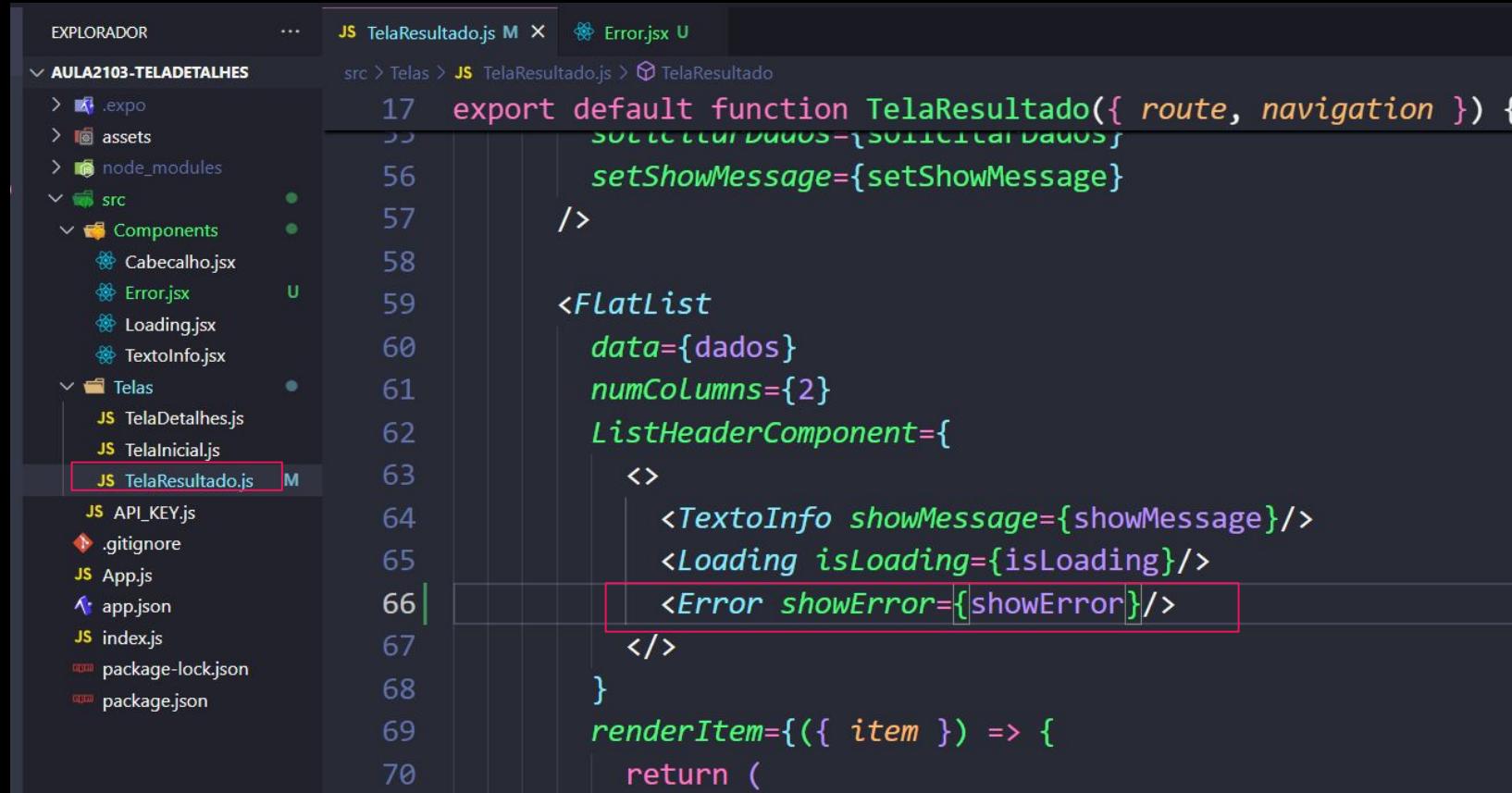
# Criando componente

The screenshot shows a code editor interface with a dark theme. At the top, there are two tabs: "Error.jsx U X" and "JS TelaResultado.js M". Below the tabs, the file path is shown as "src > Components > Error.jsx > styles". The code itself is as follows:

```
1 import { Text, StyleSheet } from "react-native"
2
3 export default function Error({showError}){
4     return showError?<Text style={styles.texto}>Estamos com problemas para carregar os dados</Text>:null
5 }
6
7
8 const styles = StyleSheet.create({
9     texto:{
10         fontSize:20,
11         marginTop:40,
12         color:"white",
13         width:"80%",
14         textAlign:"center",
15         alignSelf:'center'
16     }
17 })
```

The code defines a functional component named "Error" that takes a prop "showError". If "showError" is truthy, it returns a `<Text>` element with a style named "texto" containing the message "Estamos com problemas para carregar os dados". Otherwise, it returns null. The "styles" object contains a single key "texto" which is a `StyleSheet.create` object defining a font size of 20, a margin top of 40, a white color, an 80% width, center text alignment, and center self-alignment.

# Importando no cabeçalho da FlatList



The screenshot shows a VS Code editor with the following details:

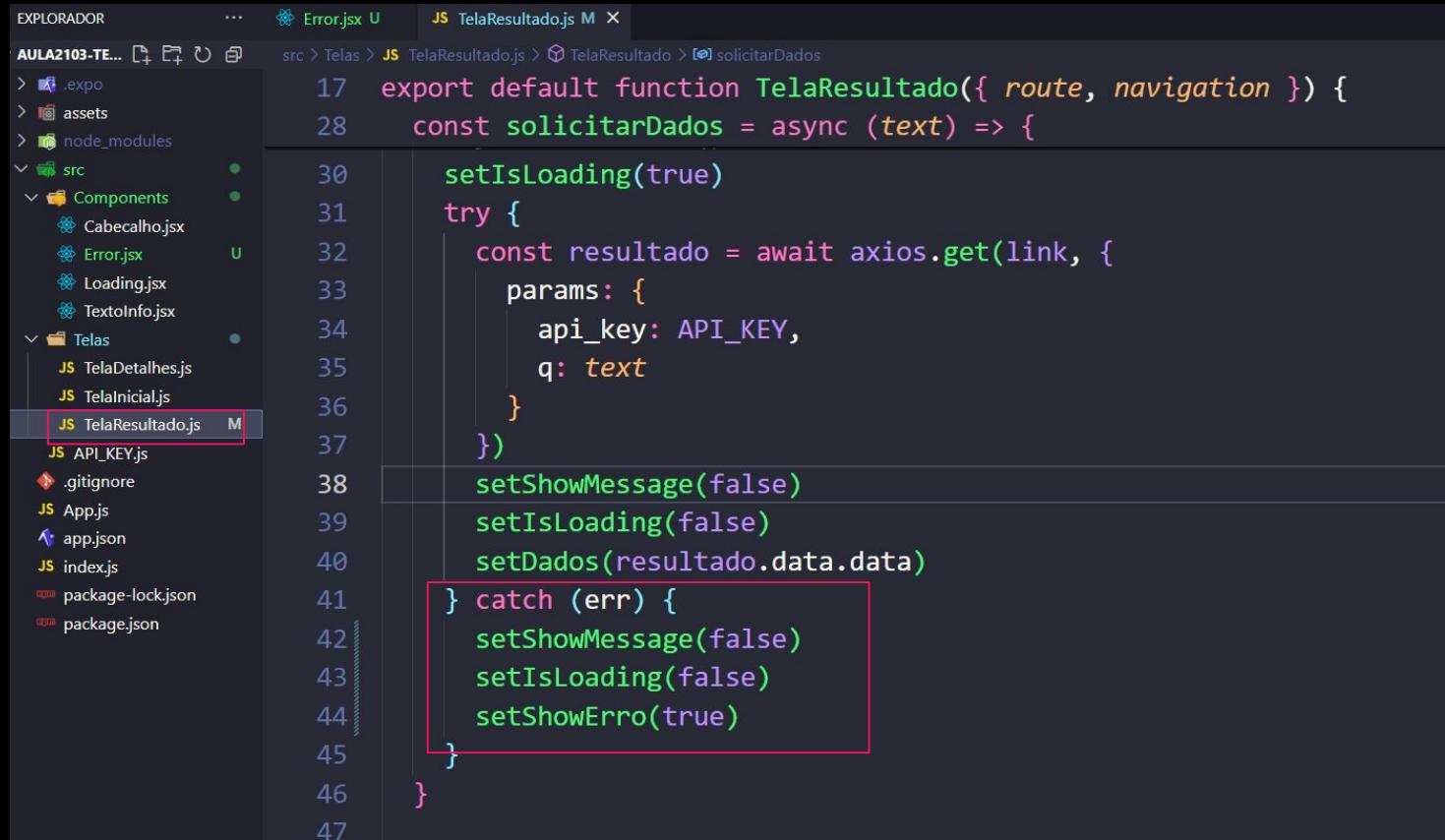
- EXPLORADOR**: Shows the project structure: AULA2103-TELADETALHES, src, Components, Telas, and files like .expo, assets, node\_modules, Cabecalho.jsx, Error.jsx, Loading.jsx, TextoInfo.jsx, TelaDetalhes.js, TelaInicial.js, and TelaResultado.js.
- TelaResultado.js** is the active file, indicated by a yellow background.
- Code Content (TelaResultado.js):**

```
17 export default function TelaResultado({ route, navigation }) {  
18   const [dados, setDados] = useState([])  
19  
20   useEffect(() => {  
21     const fetchDados = async () => {  
22       const response = await fetch(`https://api.expo.dev/2.0.0/expo-samples/todos`)  
23       const dados = await response.json()  
24       setDados(dados)  
25     }  
26     fetchDados()  
27   }, [])  
28  
29   return (  
30     <FlatList  
31       data={dados}  
32       numColumns={2}  
33       ListHeaderComponent={  
34         <>  
35         <TextoInfo showMessage={showMessage}/>  
36         <Loading isLoading={isLoading}/>  
37         <Error showError={showError}/>  
38       </>  
39     }  
40     renderItem={({ item }) => {  
41       return (  
42         <Text>{item}</Text>  
43       )  
44     }}  
45   )  
46 }  
47  
48 export default TelaResultado
```

A red box highlights the `<Error showError={showError}/>` line in the code.

# Configurando ação para o bloco do erro(catch)

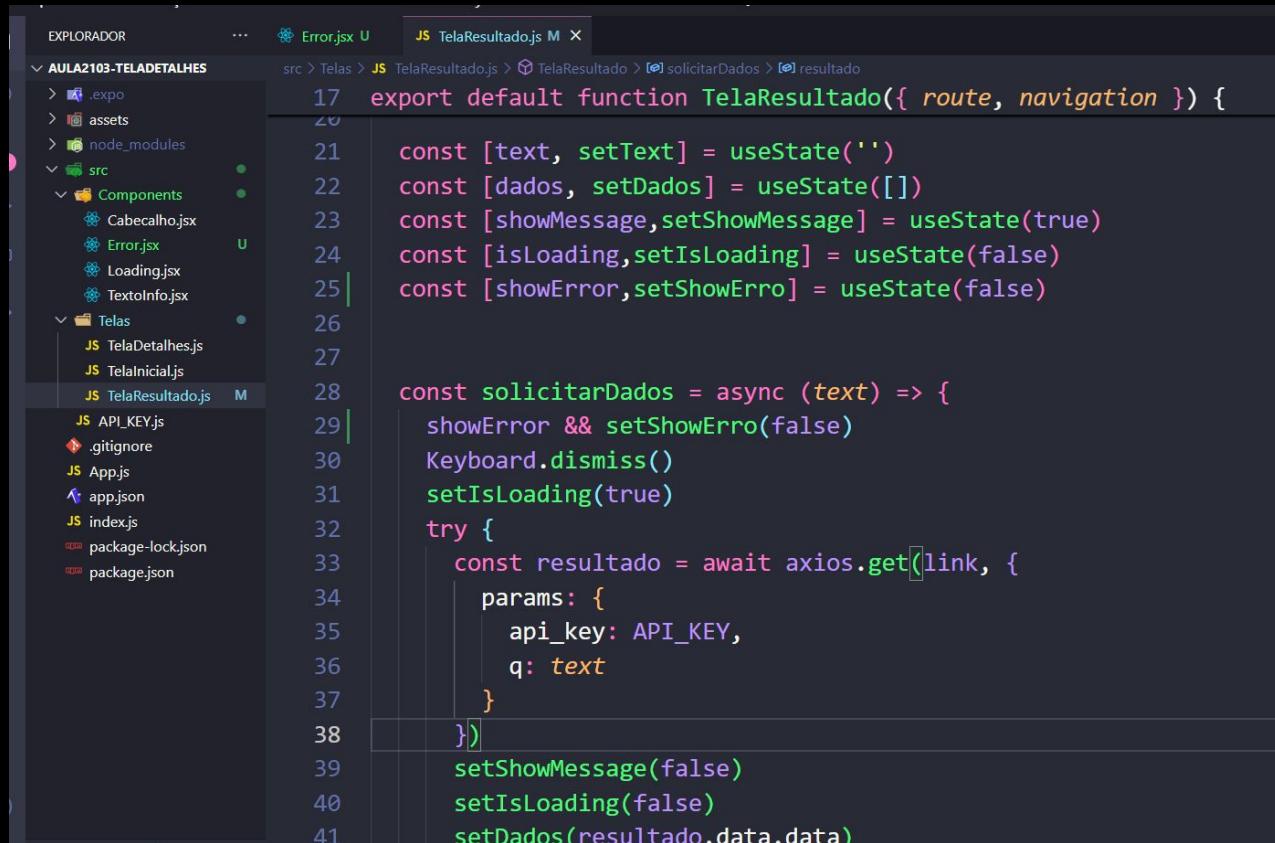
FIA P



```
17 export default function TelaResultado({ route, navigation }) {
18   const solicitarDados = async (text) => {
19     setIsLoading(true)
20     try {
21       const resultado = await axios.get(link, {
22         params: {
23           api_key: API_KEY,
24           q: text
25         }
26       })
27       setShowMessage(false)
28       setIsLoading(false)
29       setDados(resultado.data.data)
30     } catch (err) {
31       setShowMessage(true)
32       setIsLoading(false)
33       setShowErro(true)
34     }
35   }
36 }
```

# Colando para false, caso o estado seja verdadeiro

FIA P



```
17 export default function TelaResultado({ route, navigation }){  
18     const [text, setText] = useState('')  
19     const [dados, setDados] = useState([])  
20     const [showMessage, setShowMessage] = useState(true)  
21     const [isLoading, setIsLoading] = useState(false)  
22     const [showError, setShowErro] = useState(false)  
23  
24     const solicitarDados = async (text) => {  
25         showError && setShowErro(false)  
26         Keyboard.dismiss()  
27         setIsLoading(true)  
28         try {  
29             const resultado = await axios.get(link, {  
30                 params: {  
31                     api_key: API_KEY,  
32                     q: text  
33                 }  
34             })  
35             setShowMessage(false)  
36             setIsLoading(false)  
37             setDados(resultado.data.data)  
38         }  
39     }  
40  
41 }
```

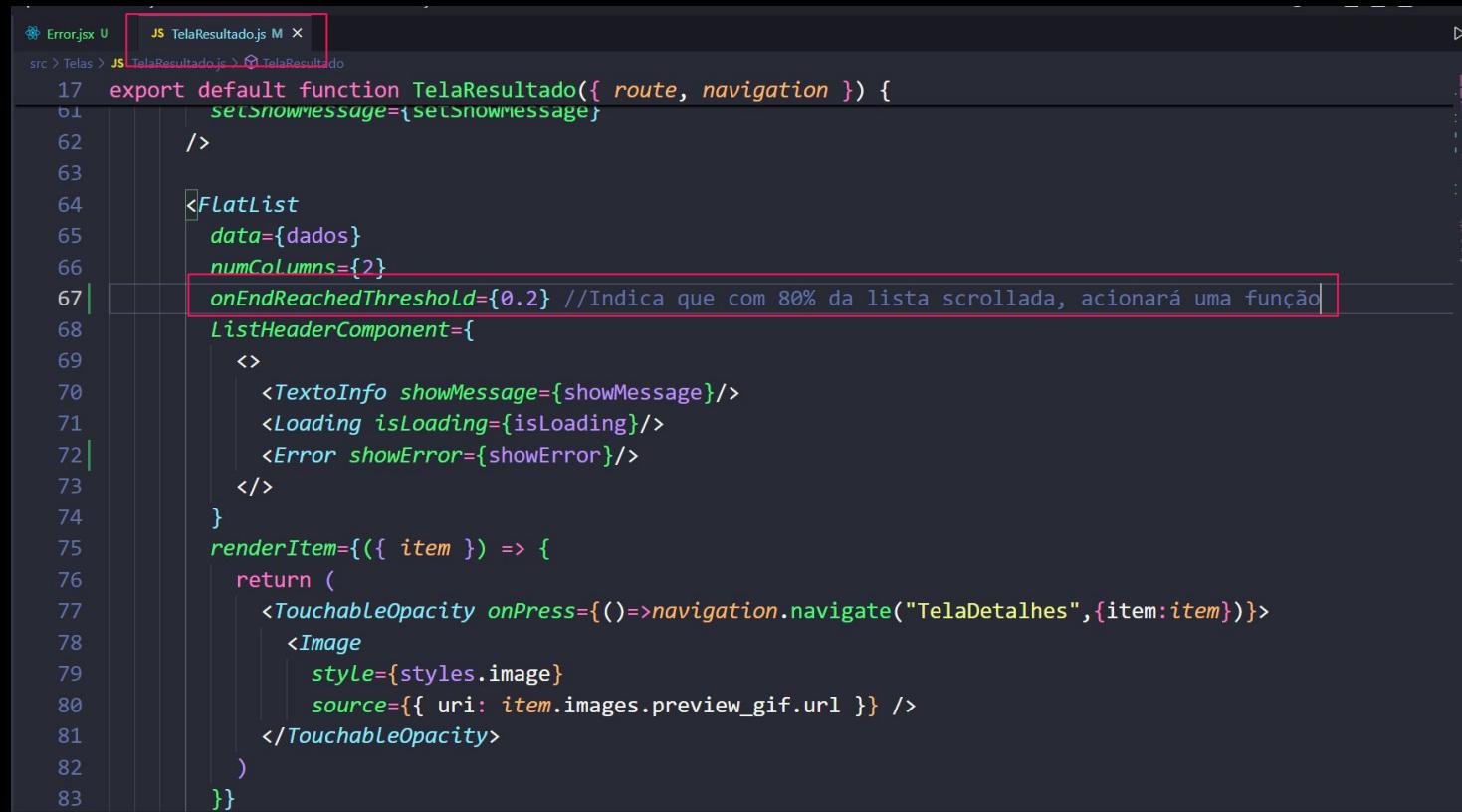
# Configurando os parâmetros para paginação

The screenshot shows a code editor interface with a dark theme. On the left is the Explorer sidebar, which lists the project structure. The current file is `TelaResultado.js`, located in the `src/Telas` directory. The code in the editor is as follows:

```
17 export default function TelaResultado({ route, navigation }) {
18   const [text, setText] = useState('')
19   const [dados, setDados] = useState([])
20   const [showMessage, setShowMessage] = useState(true)
21   const [isLoading, setIsLoading] = useState(false)
22   const [showError, setShowErro] = useState(false)
23
24   const solicitarDados = async (text) => {
25     showError && setShowErro(false)
26     Keyboard.dismiss()
27     setIsLoading(true)
28     try {
29       const resultado = await axios.get(link, {
30         params: {
31           api_key: API_KEY,
32           q: text,
33           limit: 20,
34           offset: 0
35         }
36       })
37       setDados(resultado.data)
38     } catch (error) {
39     }
40   }
41
42   useEffect(() => {
43     solicitarDados(text)
44   }, [text])
45
46   const handleTextChange = (e) => {
47     setText(e.target.value)
48   }
49
50   const handlePress = () => {
51     solicitarDados(text)
52   }
53
54   return (
55     <View>
56       <Text>{text}</Text>
57       <Text>{dados}</Text>
58     </View>
59   )
60 }
```

A red rectangular box highlights the line `limit: 20,` indicating it is the parameter being configured for pagination.

# Detectando que o usuário está chegando no final da lista



```
17 export default function TelaResultado({ route, navigation }) {
18     setSnowMessage={setSnowMessage}
19     />
20
21     <FlatList
22         data={dados}
23         numColumns={2}
24         onEndReachedThreshold={0.2} //Indica que com 80% da lista scrollada, acionará uma função
25         ListHeaderComponent={
26             <>
27                 <TextoInfo showMessage={showMessage}/>
28                 <Loading isLoading={isLoading}/>
29                 <Error showError={showError}/>
30             </>
31         }
32         renderItem={({ item }) => {
33             return (
34                 <TouchableOpacity onPress={()=>navigation.navigate("TelaDetalhes",{item:item})}>
35                     <Image
36                         style={styles.image}
37                         source={{ uri: item.images.preview_gif.url }} />
38                 </TouchableOpacity>
39             )
40         }}
41     }
42 }
```

# Função que será disparada

```
JS TelaResultado.js M X
src > Telas > JS TelaResultado.js > TelaResultado
17 export default function TelaResultado({ route, navigation }) {
60     ...
61     ...
62     ...
63
64     <FlatList
65         ...
66         ...
67         ...
68         onEndReached={()=>solicitarDados}
69         ...
70         ...
71         ...
72         ...
73         ...
74         ...
75     }
76     renderItem={({ item }) => {
77         return (
78             ...
79                 ...
80                 ...
81                 ...
82             )
83         )
84     }
85 }
```

# Criando a variável que será incrementada

FIAP

The screenshot shows a code editor interface with a dark theme. At the top, there are two tabs: "Error.jsx" and "JS TelaResultado.js". The "JS TelaResultado.js" tab is active, indicated by a red border around its title. Below the tabs, the file path is shown as "src > Telas > JS TelaResultado.js > [?] pagina". The main area contains the following code:

```
2 import { useState } from 'react';
3 import { StyleSheet, ImageBackground, FlatList, Dimensions, TouchableOpacity, View, Text, Image, SafeAreaView } from 'react-native';
4 import { Ionicons } from "react-native-vector-icons"
5 import TextoInfo from '../Components/TextoInfo';
6 import Loading from '../Components>Loading';
7
8
9 import API_KEY from '../API_KEY';
10 import axios from 'axios';
11 import Cabecalho from '../Components/Cabecalho';
12 import Error from '../Components/Error';
13 const{width,height}=Dimensions.get("window")
14 const IMAGE_WIDTH = width
15
16 let pagina = 0
17
18 export default function TelaResultado({ route, navigation }) {
19   const escolha = route.params.escolha
20   const link = `http://api.giphy.com/v1/${escolha}/search`
```

The line "let pagina = 0" is highlighted with a red rectangular box. The code uses syntax highlighting to distinguish between different language elements like imports, variables, and functions.

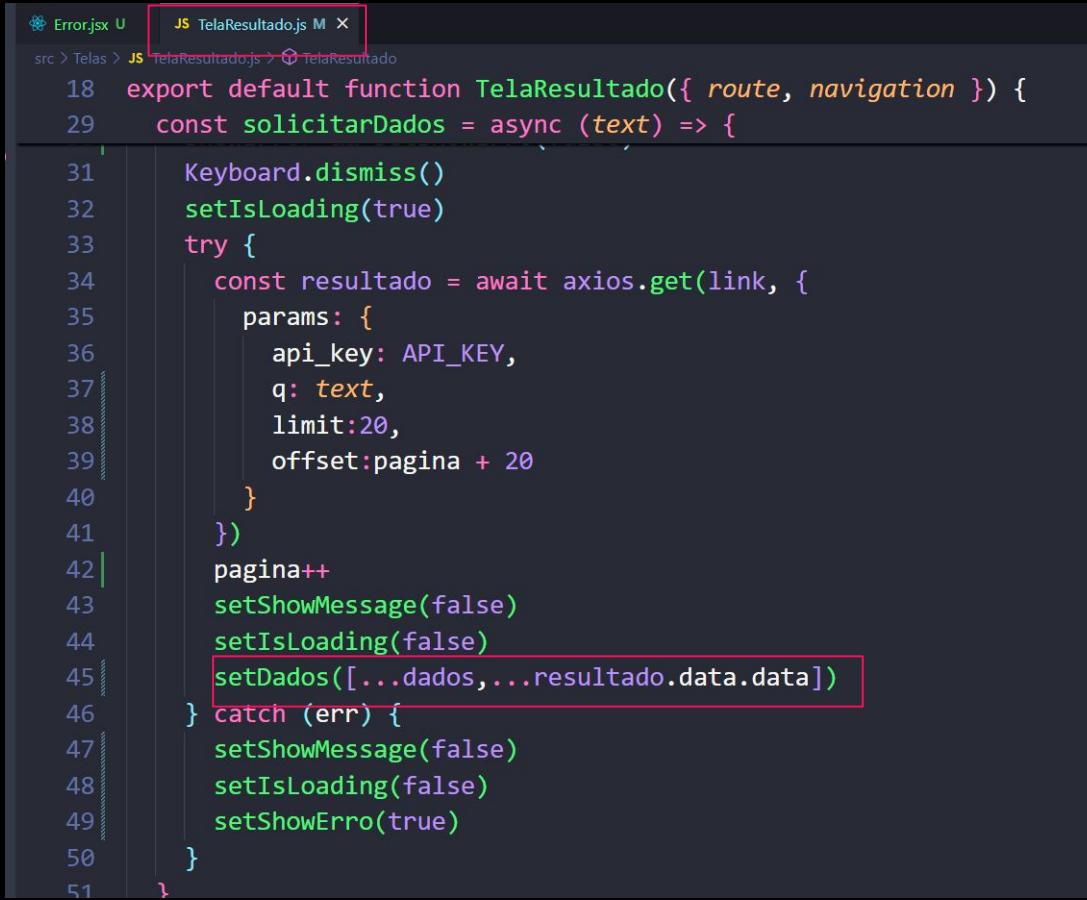
# Criando a variável que será incrementada

FIA P

```
src > Telas > JS TelaResultado.js > TelaResultado > [s] solicitarDados
18  export default function TelaResultado({ route, navigation }) {
19
20
21
22
23
24
25
26
27
28
29  const solicitarDados = async (text) => {
30    showError && setShowErro(false)
31    Keyboard.dismiss()
32    setIsLoading(true)
33    try {
34      const resultado = await axios.get(link, {
35        params: {
36          api_key: API_KEY,
37          q: text,
38          limit: 20,
39          offset: pagina + 20
40        }
41      })
42      pagina++
43      setShowMessage(false)
44      setIsLoading(false)
45      setDados(resultado.data.data)
46    } catch (err) {
```

# Add dados novos e mantendo os antigos

FIAP



The screenshot shows a code editor with the file `TelaResultado.js` open. The file contains a function `TelaResultado` that performs an asynchronous API call to `axios.get`. The response data is then combined with the existing state using the spread operator (`setDados([...dados, ...resultado.data.data])`). A pink rectangular highlight is placed over the line containing this assignment.

```
18 export default function TelaResultado({ route, navigation }) {
19   const solicitarDados = async (text) => {
20     Keyboard.dismiss()
21     setIsLoading(true)
22     try {
23       const resultado = await axios.get(link, {
24         params: {
25           api_key: API_KEY,
26           q: text,
27           limit: 20,
28           offset: pagina + 20
29         }
30       })
31       pagina++
32       setShowMessage(false)
33       setIsLoading(false)
34       setDados([...dados, ...resultado.data.data])
35     } catch (err) {
36       setShowMessage(false)
37       setIsLoading(false)
38       setShowErro(true)
39     }
40   }
41 }
```

Dúvidas?