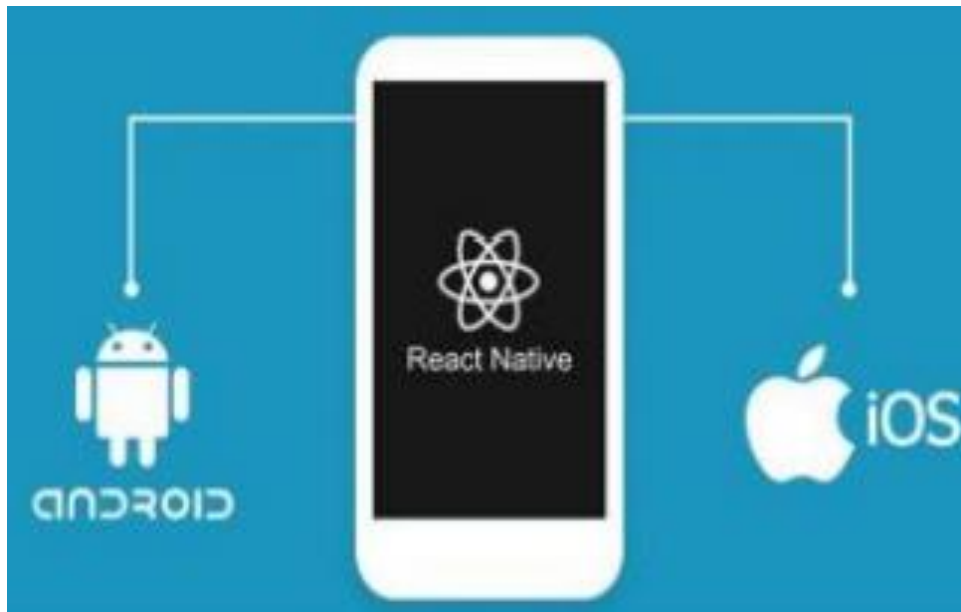


Navegação React-Native



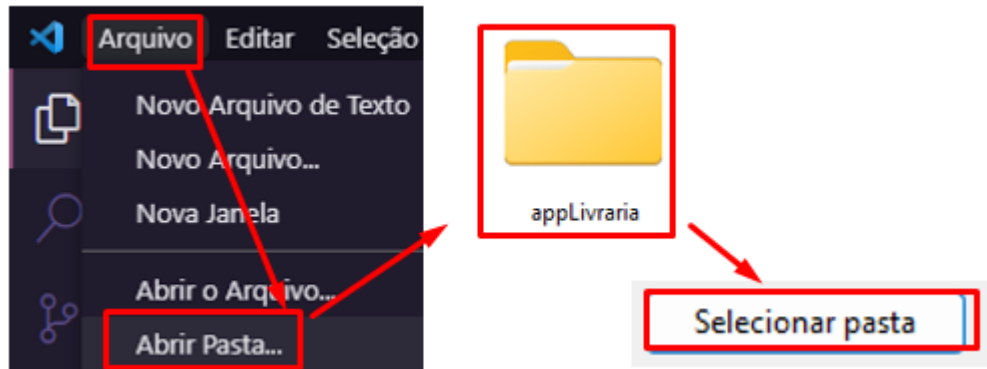
Prof: Mário de Jesus

Vamos aplicar no projeto livraria

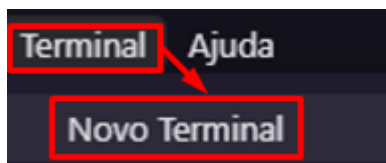
Crie o projeto appLivraria usando o comando **expo init appLivraria**

```
C:\Users\professores\Desktop>npx create-expo-app appLivraria  
✓ Downloaded and extracted project files.  
\\ Installing JavaScript dependencies with npm.
```

Abra o **appLivraria** com o **vs Code**



Agora abra o **terminal** do **vs code**



Instalações

Instale os pacotes necessários em seu projeto React Native:

npm install @react-navigation/native

```
O 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\professores\Desktop\appLivraria> npm install @react-navigation/native
```

No diretório do seu projeto, execute:

npx expo install react-native-screens react-native-safe-area-context

```
PROBLEMAS  SAÍDA  CONSOLE DE DEPURAÇÃO  TERMINAL

Run `npm audit` for details.
PS C:\Users\professores\Desktop\appLivraria> npx expo install react-native-screens react-native-safe-area-context
> Installing 2 SDK 47.0.0 compatible native modules using npm
> npm install
```

No diretório do seu projeto, execute:

npm install @react-navigation/bottom-tabs

```
PROBLEMAS  SAÍDA  CONSOLE DE DEPURAÇÃO  TERMINAL

Run `npm audit` for details.
PS C:\Users\professores\Desktop\appLivraria> npm install @react-navigation/bottom-tabs

added 9 packages, and audited 1154 packages in 3s
```

No diretório do seu projeto, execute:

npm install axios

```
PROBLEMAS  SAÍDA  CONSOLE DE DEPURAÇÃO  TERMINAL

Run `npm audit` for details.
PS C:\Users\professores\Desktop\appLivraria> npm install axios

added 4 packages, and audited 1158 packages in 3s
```

No diretório do seu projeto, execute:

npx expo install react-dom react-native-web @expo/webpack-config

```
PS C:\Users\professores\Desktop\appLivraria> npx expo install react-dom react-native-web @expo/webpack-config
> Installing 3 SDK 47.0.0 compatible native modules using npm
> npm install
npm WARN deprecated stable@0.1.8: Modern JS already guarantees Array#sort() is a stable sort, so this library is i
```

Agora vamos rodar nosso projeto na web apertando o **W**

```
added 685 packages, and audited 1835 packages in 30s
PS C:\Users\professores\Desktop\applivaria> npx expo start
Starting project at C:\Users\professores\Desktop\applivaria
Starting Metro Bundler

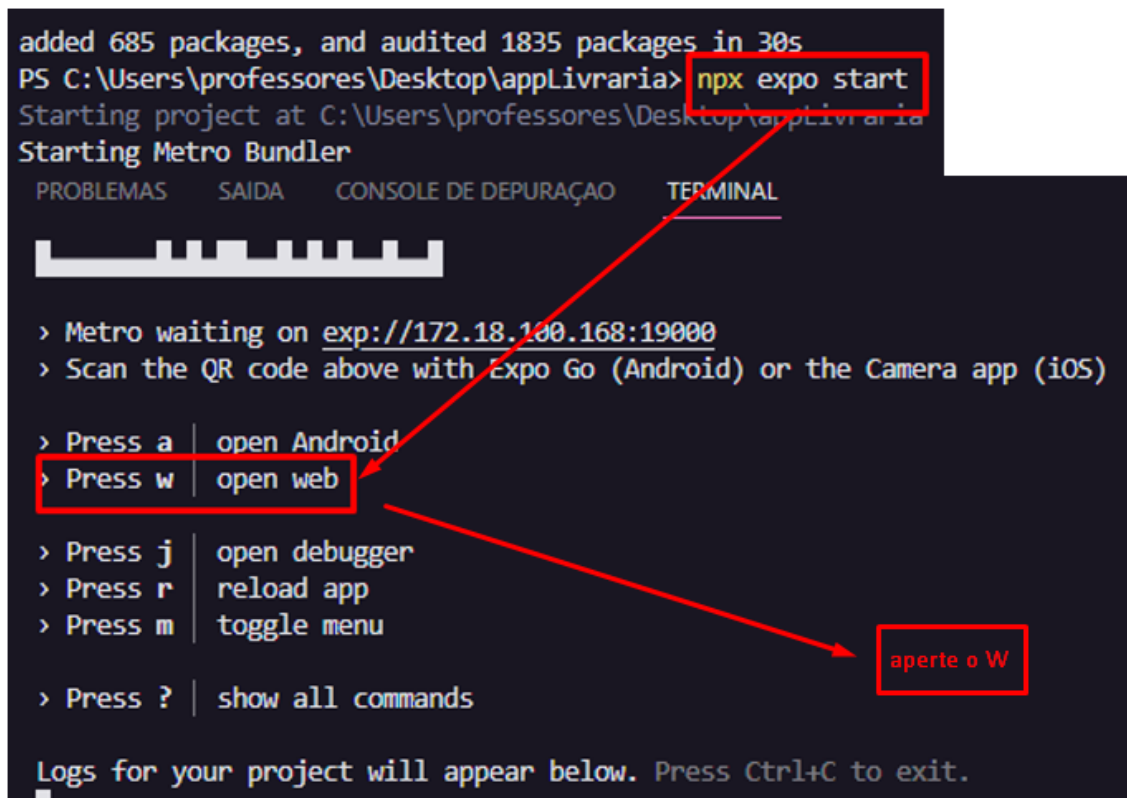
PROBLEMAS  SAIDA  CONSOLE DE DEPURAÇÃO  TERMINAL

┌───────────┴───────────┐
└───────────┴───────────┘

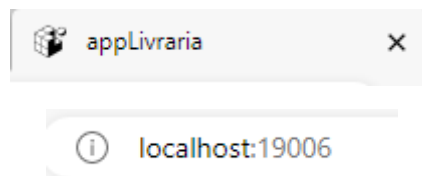
> Metro waiting on exp://172.18.100.168:19000
> Scan the QR code above with Expo Go (Android) or the Camera app (iOS)

> Press a | open Android
> Press w | open web
> Press j | open debugger
> Press r | reload app
> Press m | toggle menu
> Press ? | show all commands

Logs for your project will appear below. Press Ctrl+C to exit.
```

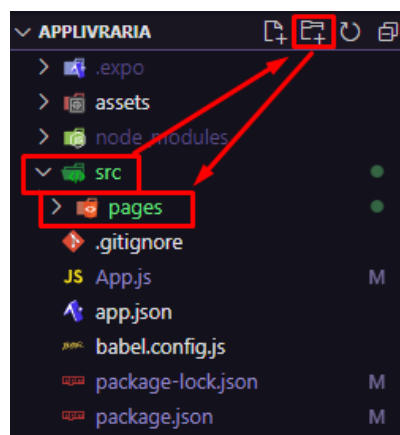


Saída no Browser

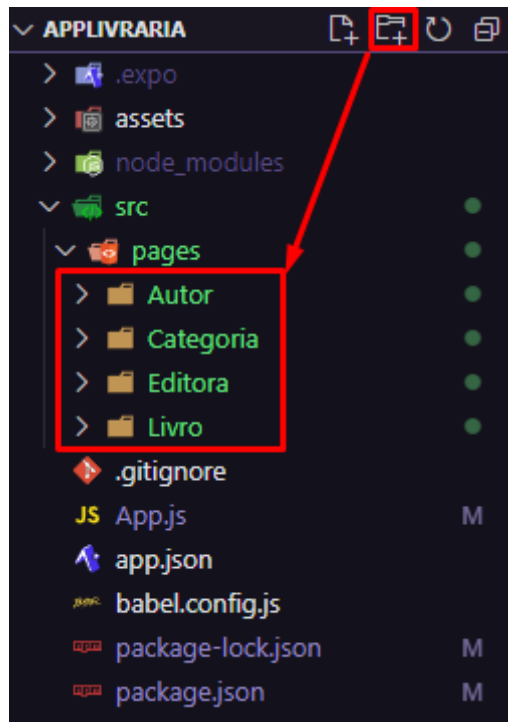


Open up App.js to start working on your app!

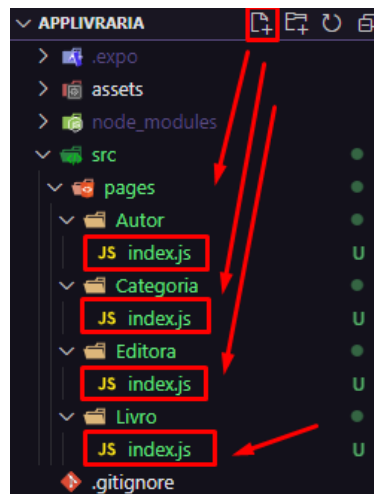
Crie a pasta SRC e dentro dela a pasta Pages



Dentro da pasta **pages** crie as **pastas Autor, Categoria, Editora e Livro** como segue Abaixo:



Dentro de cada **pasta** crie um arquivo chamando **index.js**



Abra o arquivo **index.js** do **Autor** e digite:

```
import React from 'react';
import { StyleSheet, Text, View } from 'react-native';

export default function Autor(){
  return (
    <View style={{ flex: 1, justifyContent: 'center', alignItems:
'center' }}>
      <Text>Autor!</Text>
    </View>
  );
}
```

Abra o arquivo **index.js** da **Categoria** e digite:

```
import React from 'react';
import { StyleSheet, Text, View } from 'react-native';

export default function Categoria(){
  return (
    <View style={{ flex: 1, justifyContent: 'center', alignItems:
'center' }}>
      <Text>Categoria!</Text>
    </View>
  );
}
```

Abra o arquivo **index.js** da **Editora** e digite:

```
import React from 'react';
import { StyleSheet, Text, View } from 'react-native';

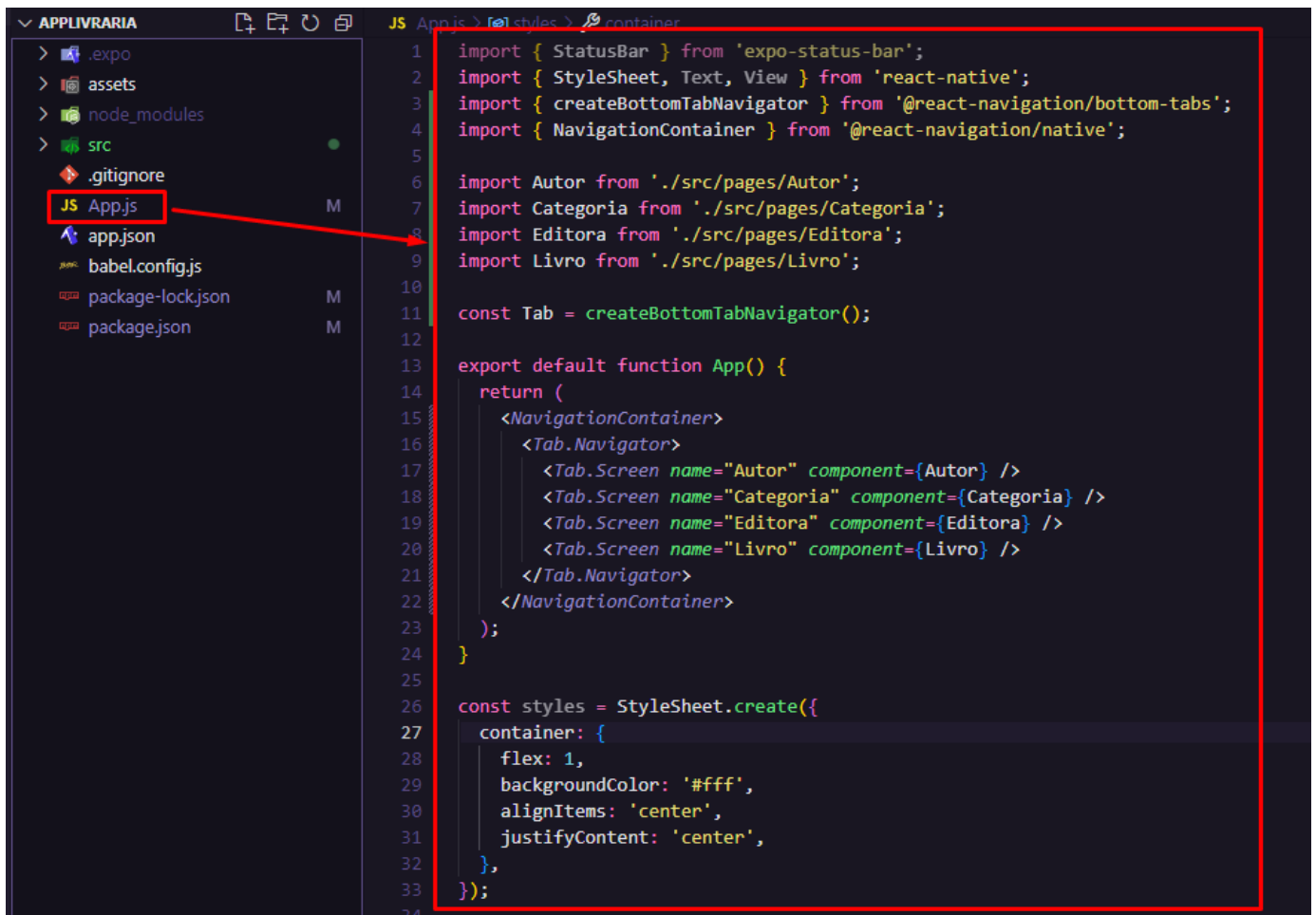
export default function Editora(){
  return (
    <View style={{ flex: 1, justifyContent: 'center', alignItems:
'center' }}>
      <Text>Editora!</Text>
    </View>
  );
}
```

Abra o arquivo **index.js** do **Livro** e digite:

```
import React from 'react';
import { StyleSheet, Text, View } from 'react-native';

export default function Livro(){
  return (
    <View style={{ flex: 1, justifyContent: 'center', alignItems:
'center' }}>
      <Text>Livro!</Text>
    </View>
  );
}
```

Agora abra o arquivo **App.js** que está na **raiz** do **projeto** e digite



```
1 import { StatusBar } from 'expo-status-bar';
2 import { StyleSheet, Text, View } from 'react-native';
3 import { createBottomTabNavigator } from '@react-navigation/bottom-tabs';
4 import { NavigationContainer } from '@react-navigation/native';
5
6 import Autor from './src/pages/Autor';
7 import Categoria from './src/pages/Categoria';
8 import Editora from './src/pages/Editora';
9 import Livro from './src/pages/Livro';
10
11 const Tab = createBottomTabNavigator();
12
13 export default function App() {
14   return (
15     <NavigationContainer>
16       <Tab.Navigator>
17         <Tab.Screen name="Autor" component={Autor} />
18         <Tab.Screen name="Categoria" component={Categoria} />
19         <Tab.Screen name="Editora" component={Editora} />
20         <Tab.Screen name="Livro" component={Livro} />
21       </Tab.Navigator>
22     </NavigationContainer>
23   );
24 }
25
26 const styles = StyleSheet.create({
27   container: {
28     flex: 1,
29     backgroundColor: '#fff',
30     alignItems: 'center',
31     justifyContent: 'center',
32   },
33 });
```

Código do **App.js**

```
import { StatusBar } from 'expo-status-bar';
import { StyleSheet, Text, View } from 'react-native';
import { createBottomTabNavigator } from '@react-navigation/bottom-tabs';
import { NavigationContainer } from '@react-navigation/native';

import Autor from './src/pages/Autor';
import Categoria from './src/pages/Categoria';
import Editora from './src/pages/Editora';
import Livro from './src/pages/Livro';

const Tab = createBottomTabNavigator();

export default function App() {
  return (
    <NavigationContainer>
      <Tab.Navigator>
        <Tab.Screen name="Autor" component={Autor} />
        <Tab.Screen name="Categoria" component={Categoria} />
        <Tab.Screen name="Editora" component={Editora} />
        <Tab.Screen name="Livro" component={Livro} />
      </Tab.Navigator>
    </NavigationContainer>
  );
}

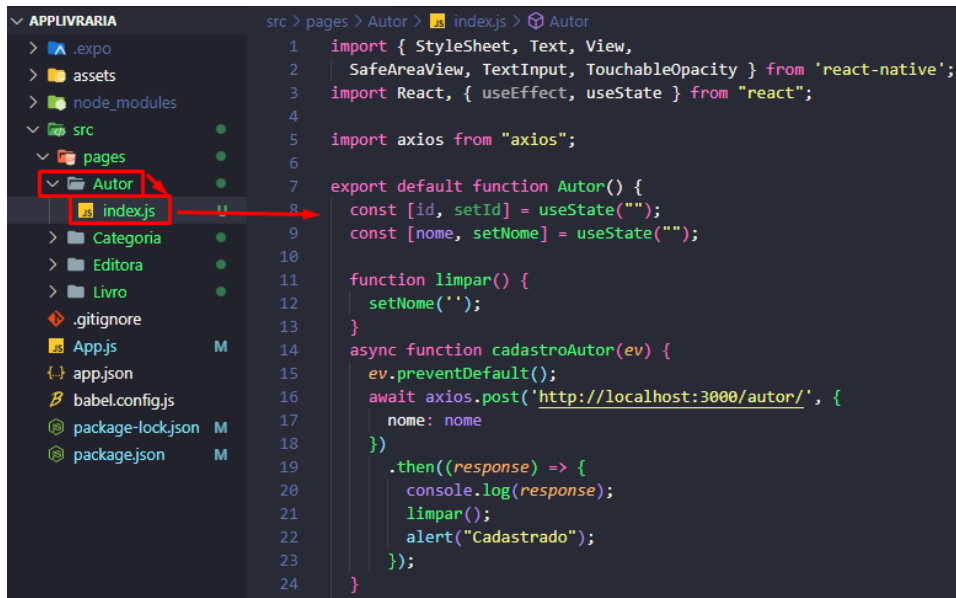
const styles = StyleSheet.create({
  container: {
    flex: 1,
    backgroundColor: '#fff',
    alignItems: 'center',
    justifyContent: 'center',
  },
});
```


Saída



Cadastrando os Autores

Abra o **arquivo index** da **pasta Autor** e faça as modificações abaixo:



```
1 import { StyleSheet, Text, View,
2   SafeAreaView, TextInput, TouchableOpacity } from 'react-native';
3 import React, { useEffect, useState } from "react";
4
5 import axios from "axios";
6
7 export default function Autor() {
8   const [id, setId] = useState("");
9   const [nome, setNome] = useState("");
10
11   function limpar() {
12     setNome('');
13   }
14
15   async function cadastroAutor(ev) {
16     ev.preventDefault();
17     await axios.post('http://localhost:3000/autor/', {
18       nome: nome
19     })
20     .then((response) => {
21       console.log(response);
22       limpar();
23       alert("Cadastrado");
24     });
25   }
26 }
```

Código completo do **Index do Autor**

```
import { StyleSheet, Text, View,
  SafeAreaView, TextInput, TouchableOpacity } from 'react-native';
import React, { useEffect, useState } from "react";

import axios from "axios";

export default function Autor() {
  const [id, setId] = useState("");
  const [nome, setNome] = useState("");

  function limpar() {
    setNome('');
  }

  async function cadastroAutor(ev) {
    ev.preventDefault();
    await axios.post('http://localhost:3000/autor/', {
      nome: nome
    })
    .then((response) => {
      console.log(response);
      limpar();
      alert("Cadastrado");
    });
  }

  return (
    <SafeAreaView style={styles.container}>
      <View style={{ alignItems: "center" }}>
```

```

    <Text style={styles.text}>Digite seu nome</Text>
    <TextInput
      style={styles.input}
      placeholder="Digite seu nome"
      value={nome}
      onChangeText={({texto}) => setNome(texto)}
    />
  </View>
  <View style={styles.areaBtn}>
    <TouchableOpacity
      style={[styles.botao, { backgroundColor: "#1d75cd" }]}
      onPress={cadastroAutor}
    >
      <Text style={styles.botaoText}>Cadastrar</Text>
    </TouchableOpacity>
  </View>
</SafeAreaView>
);
}

//css
const styles = StyleSheet.create({
  container: {
    flex: 1,
  },
  text: {
    marginTop: 25,
    marginBottom: 15,
    fontSize: 25,
    fontWeight: "bold",
  },
  input: {
    backgroundColor: "#FFF",
    borderWidth: 1,
    borderColor: "#DDD",
    borderRadius: 5,
    width: "90%",
    padding: 10,
    fontSize: 18,
  },
  areaBtn: {
    alignItems: "center",
    flexDirection: "row",
    marginTop: 15,
    justifyContent: "space-around",
  },
  botao: {
    height: 50,
    justifyContent: "center",

```

```

    alignItems: "center",
    padding: 15,
    borderRadius: 5,
  },
  botaoText: {
    fontSize: 22,
    color: "#FFF",
  },
});

```

Saída dos autores

Confira na API o cadastro

localhost:3000/autor/

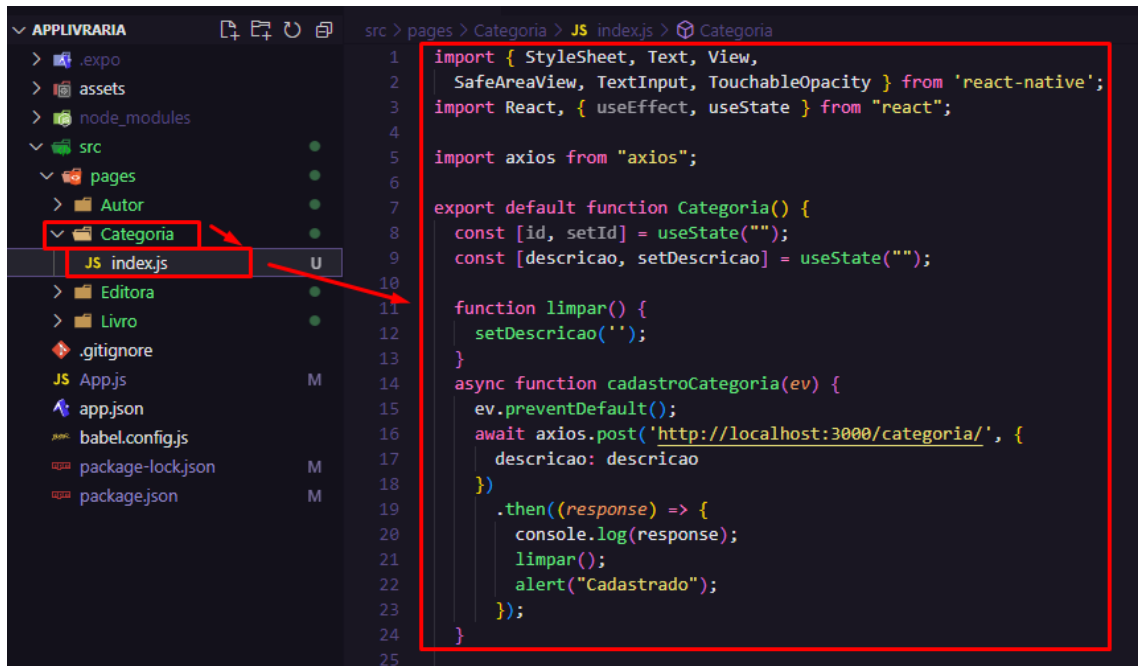
```

[{"id":1,"nome":"Machado de Assis","createdAt":"2022-10-23T21:19:25.000Z","updatedAt":"2022-10-23T21:19:25.000Z"}, {"id":2,"nome":"Graciliano Ramos","createdAt":"2022-10-23T21:19:52.000Z","updatedAt":"2022-10-23T21:19:52.000Z"}, {"id":7,"nome":"Carlos Drumom", "createdAt":"2022-10-23T21:40:15.000Z","updatedAt":"2022-10-23T21:40:15.000Z"}, {"id":8,"nome":null,"createdAt":"2022-11-29T23:52:27.000Z","updatedAt":"2022-11-29T23:52:27.000Z"}, {"id":9,"nome":null,"createdAt":"2022-11-29T23:53:22.000Z","updatedAt":"2022-11-29T23:53:22.000Z"}, {"id":10,"nome":null,"createdAt":"2022-11-29T23:54:16.000Z","updatedAt":"2022-11-29T23:54:16.000Z"}, {"id":11,"nome":null,"createdAt":"2022-11-29T23:55:03.000Z","updatedAt":"2022-11-29T23:55:03.000Z"}, {"id":12,"nome":"tetetete","createdAt":"2022-11-30T00:00:12.000Z","updatedAt":"2022-11-30T00:00:12.000Z"}, {"id":13,"nome":"jose","createdAt":"2022-11-30T00:00:49.000Z","updatedAt":"2022-11-30T00:00:49.000Z"}, {"id":14,"nome":"bet","createdAt":"2022-11-30T00:01:49.000Z","updatedAt":"2022-11-30T00:01:49.000Z"}, {"id":15,"nome":"trtrtrtrtr","createdAt":"2022-11-30T00:02:29.000Z","updatedAt":"2022-11-30T00:02:29.000Z"}, {"id":16,"nome":"Mario","createdAt":"2022-11-30T00:16:25.000Z","updatedAt":"2022-11-30T00:16:25.000Z"}]

```

Cadastrando as Categorias

Abra o arquivo **index** da pasta **Categoria** e faça as modificações abaixo:



```
1 import { StyleSheet, Text, View,
2   SafeAreaView, TextInput, TouchableOpacity } from 'react-native';
3 import React, { useEffect, useState } from "react";
4
5 import axios from "axios";
6
7 export default function Categoria() {
8   const [id, setId] = useState("");
9   const [descricao, setDescricao] = useState("");
10
11   function limpar() {
12     setDescricao('');
13   }
14   async function cadastroCategoria(ev) {
15     ev.preventDefault();
16     await axios.post('http://localhost:3000/categoria/', {
17       descricao: descricao
18     })
19     .then((response) => {
20       console.log(response);
21       limpar();
22       alert("Cadastrado");
23     });
24   }
25 }
```

Código completo do **Index da Categoria**

```
import { StyleSheet, Text, View,
  SafeAreaView, TextInput, TouchableOpacity } from 'react-native';
import React, { useEffect, useState } from "react";

import axios from "axios";

export default function Categoria() {
  const [id, setId] = useState("");
  const [descricao, setDescricao] = useState("");

  function limpar() {
    setDescricao('');
  }
  async function cadastroCategoria(ev) {
    ev.preventDefault();
    await axios.post('http://localhost:3000/categoria/', {
      descricao: descricao
    })
    .then((response) => {
      console.log(response);
      limpar();
      alert("Cadastrado");
    });
  }
}
```

```

return (
  <SafeAreaView style={styles.container}>
    <View style={{ alignItems: "center" }}>
      <Text style={styles.text}>Digite a descrição</Text>
      <TextInput
        style={styles.input}
        placeholder="Digite a descrição da categoria"
        value={descricao}
        onChangeText={(texto) => setDescricao(texto)}
      />
    </View>
    <View style={styles.areaBtn}>
      <TouchableOpacity
        style={[styles.botao, { backgroundColor: "#1d75cd" }]}
        onPress={cadastroCategoria}
      >
        <Text style={styles.botaoText}>Cadastrar</Text>
      </TouchableOpacity>
    </View>
  </SafeAreaView>
);
}

//css
const styles = StyleSheet.create({
  container: {
    flex: 1,
  },
  text: {
    marginTop: 25,
    marginBottom: 15,
    fontSize: 25,
    fontWeight: "bold",
  },
  input: {
    backgroundColor: "#FFF",
    borderWidth: 1,
    borderColor: "#DDD",
    borderRadius: 5,
    width: "90%",
    padding: 10,
    fontSize: 18,
  },
  areaBtn: {
    alignItems: "center",
    flexDirection: "row",
    marginTop: 15,
    justifyContent: "space-around",
  },
});

```

```
botao: {
  height: 50,
  justifyContent: "center",
  alignItems: "center",
  padding: 15,
  borderRadius: 5,
},
botaoText: {
  fontSize: 22,
  color: "#FFF",
},
});
```

Saída da categoria

Categoria

Digite a descrição

terror

Cadastrar

▼

Autor

▼

Categoria

▼

Editora

▼

Livro

localhost:19006 diz

Cadastrado

OK

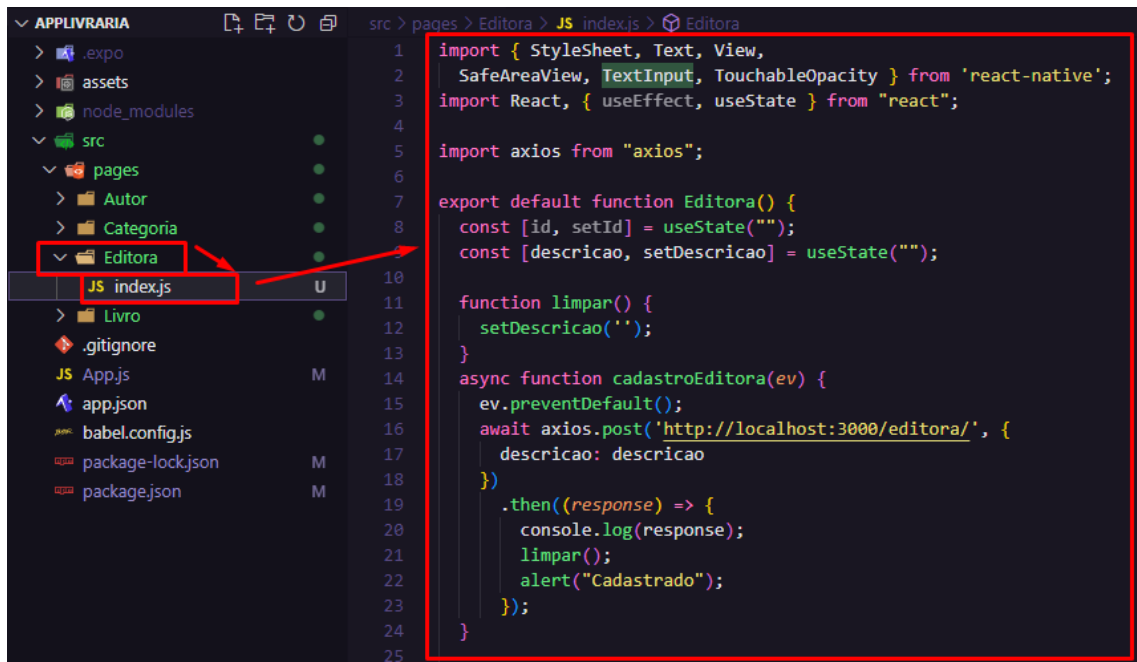
Confira na API o cadastro

localhost:3000/categoria/

```
localhost:3000/categoria/
[{"id":1,"descricao":"terror","createdAt":"2022-12-06T21:12:19.000Z","updatedAt":"2022-12-06T21:12:19.000Z"}]
```

Cadastrando as Editoras

Abra o arquivo **index** da pasta **Editora** e faça as modificações abaixo:



```
1 import { StyleSheet, Text, View,
2   SafeAreaView, TextInput, TouchableOpacity } from 'react-native';
3 import React, { useEffect, useState } from "react";
4
5 import axios from "axios";
6
7 export default function Editora() {
8   const [id, setId] = useState("");
9   const [descricao, setDescricao] = useState("");
10
11   function limpar() {
12     setDescricao('');
13   }
14   async function cadastroEditora(ev) {
15     ev.preventDefault();
16     await axios.post('http://localhost:3000/editora/', {
17       descricao: descricao
18     })
19     .then((response) => {
20       console.log(response);
21       limpar();
22       alert("Cadastrado");
23     });
24   }
25 }
```

Código completo do **Index da Edigora**

```
import { StyleSheet, Text, View,
  SafeAreaView, TextInput, TouchableOpacity } from 'react-native';
import React, { useEffect, useState } from "react";

import axios from "axios";

export default function Editora() {
  const [id, setId] = useState("");
  const [descricao, setDescricao] = useState("");

  function limpar() {
    setDescricao('');
  }
  async function cadastroEditora(ev) {
    ev.preventDefault();
    await axios.post('http://localhost:3000/editora/', {
      descricao: descricao
    })
    .then((response) => {
      console.log(response);
      limpar();
      alert("Cadastrado");
    });
  }
}
```



```

return (
  <SafeAreaView style={styles.container}>
    <View style={{ alignItems: "center" }}>
      <Text style={styles.text}>Digite a descrição</Text>
      <TextInput
        style={styles.input}
        placeholder="Digite a descrição da editora"
        value={descricao}
        onChangeText={(texto) => setDescricao(texto)}
      />
    </View>
    <View style={styles.areaBtn}>
      <TouchableOpacity
        style={[styles.botoao, { backgroundColor: "#1d75cd" }]}
        onPress={cadastroEditora}
      >
        <Text style={styles.botoaoText}>Cadastrar</Text>
      </TouchableOpacity>
    </View>
  </SafeAreaView>
);
}

//css
const styles = StyleSheet.create({
  container: {
    flex: 1,
  },
  text: {
    marginTop: 25,
    marginBottom: 15,
    fontSize: 25,
    fontWeight: "bold",
  },
  input: {
    backgroundColor: "#FFF",
    borderWidth: 1,
    borderColor: "#DDD",
    borderRadius: 5,
    width: "90%",
    padding: 10,
    fontSize: 18,
  },
  areaBtn: {
    alignItems: "center",
    flexDirection: "row",
    marginTop: 15,
    justifyContent: "space-around",
  },
});

```

```
botao: {
  height: 50,
  justifyContent: "center",
  alignItems: "center",
  padding: 15,
  borderRadius: 5,
},
botaoText: {
  fontSize: 22,
  color: "#FFF",
},
});
```

Saída da editora

Editora

Digite a descrição

Fenix

Cadastrar

Autor

Categoria

Editora

Livro

localhost:19006 diz

Cadastrado

OK

Confira na API o cadastro

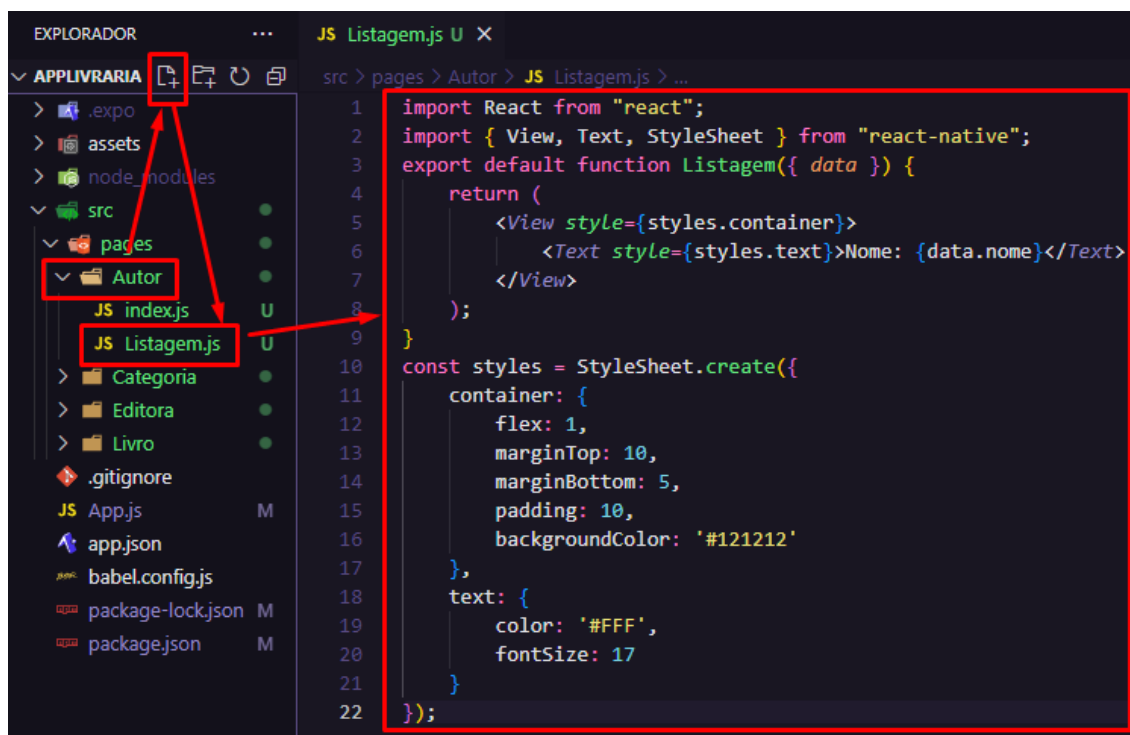
localhost:3000/editora/

```
localhost:3000/editora/
[{"id":1,"descricao":"Fenix","createdAt":"2022-12-06T21:21:12.000Z","updatedAt":"2022-12-06T21:21:12.000Z"}]
```

Listando os dados do Autor

Criando um modelo de lista.

Vamos criar o **Arquivo Listagem.js** dentro da **pasta Autor** e digitar os códigos abaixo:



Código do Listagem.js do Autor

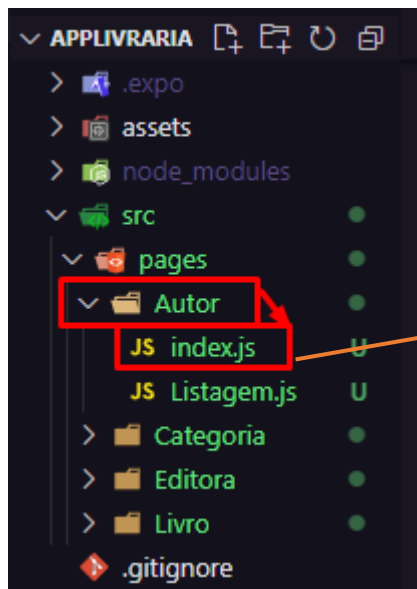
```
import React from "react";
import { View, Text, StyleSheet } from "react-native";
export default function Listagem({ data }) {
  return (
    <View style={styles.container}>
      <Text style={styles.text}>Nome:
{data.nome}</Text>
    </View>
  );
}
const styles = StyleSheet.create({
  container: {
    flex: 1,
    marginTop: 10,
    marginBottom: 5,
    padding: 10,
    backgroundColor: '#121212'
  },
});
```

```

text: {
  color: '#FFF',
  fontSize: 17
}
});

```

Abra o arquivo **index** da pasta **Autor** e faça as modificações abaixo:



```

import {
  StyleSheet, Text, View,
  SafeAreaView, TextInput, TouchableOpacity,
  FlatList, Keyboard
} from 'react-native';
import React, { useEffect, useState } from "react";
import axios from "axios";

import Listagem from './Listagem';

export default function Autor() {

  const [id, setId] = useState("");
  const [nome, setNome] = useState("");

  const [lista, setlista] = useState([]);

  //quando a tela for carregada ele chama essa função
  useEffect(() => {
    listarDados();
  }, []);

  async function listarDados() {
    try {
      const res = await axios.get("http://localhost:3000/autor/");
      setlista(res.data);
      Keyboard.dismiss();
    } catch (error) {
      console.log('Erro: ', error);
    }
  }

  <View style={styles.areaBtn}>
    <TouchableOpacity
      style={[styles.botao, { backgroundColor: "#1d75cd" }]}
      onPress={cadastroAutor}
    >
      <Text style={styles.botaoText}>Cadastrar</Text>
    </TouchableOpacity>

    <TouchableOpacity
      style={[styles.botao, { backgroundColor: "#1d75cd" }]}
      onPress={listarDados}
    >
      <Text style={styles.botaoText}>Buscar</Text>
    </TouchableOpacity>
  </View>

  <FlatList
    keyExtractor={item => item.id}
    data={lista}
    renderItem={({ item }) => (<Listagem data={item} />)}
  />

```

Código completo do **Index do Autor**

```
import {
  StyleSheet, Text, View,
  SafeAreaView, TextInput, TouchableOpacity,

  FlatList, Keyboard
} from 'react-native';
import React, { useEffect, useState } from "react";
import axios from "axios";

import Listagem from './Listagem';

export default function Autor() {

  const [id, setId] = useState("");
  const [nome, setNome] = useState("");

  const [lista, setLista] = useState([]);

  //quando a tela for carregada ele chama essa função
  useEffect(() => {
    listarDados();
  }, []);

  async function listarDados() {
    try {
      const res = await axios.get("http://localhost:3000/autor/");
      setLista(res.data);
      Keyboard.dismiss();
    } catch (error) {
      console.log('Erro: ', error);
    }
  }

  function limpar() {
    setNome('');
  }

  async function cadastroAutor(ev) {
    ev.preventDefault();
    await axios.post('http://localhost:3000/autor/', {
      nome: nome
    })
    .then((response) => {
      console.log(response);
    })
  }
}
```

```

        limpar();
        alert("Cadastrado");
    });
}

return (
    <SafeAreaView style={styles.container}>

        <View style={{ alignItems: "center" }}>
            <Text style={styles.text}>Digite seu nome</Text>
            <TextInput
                style={styles.input}
                placeholder="Digite seu nome"
                value={nome}
                onChangeText={({texto}) => setNome(texto)}
            />
        </View>
        <View style={styles.areaBtn}>
            <TouchableOpacity
                style={[styles.botao, { backgroundColor: "#1d75cd" }]}
                onPress={cadastroAutor}
            >
                <Text style={styles.botaoText}>Cadastrar</Text>
            </TouchableOpacity>

            <TouchableOpacity
                style={[styles.botao, { backgroundColor: "#1d75cd" }]}
                onPress={listarDados}
            >
                <Text style={styles.botaoText}>Buscar</Text>
            </TouchableOpacity>
        </View>

        <FlatList
            keyExtractor={item => item.id}
            data={lista}
            renderItem={({ item }) => (<Listagem data={item} />)}
        />

    </SafeAreaView>
);
}
//css
const styles = StyleSheet.create({
    container: {
        flex: 1,
    },
    text: {
        marginTop: 25,

```

```

marginBottom: 15,
fontSize: 25,
fontWeight: "bold",
},
input: {
  backgroundColor: "#FFF",
  borderWidth: 1,
  borderColor: "#DDD",
  borderRadius: 5,
  width: "90%",
  padding: 10,
  fontSize: 18,
},
areaBtn: {
  alignItems: "center",
  flexDirection: "row",
  marginTop: 15,
  justifyContent: "space-around",
},
botao: {
  height: 50,
  justifyContent: "center",
  alignItems: "center",
  padding: 15,
  borderRadius: 5,
},
botaoText: {
  fontSize: 22,
  color: "#FFF",
},
});

```

Saída da categoria

Autor

Digite seu nome

Cadastrar
Buscar

Nome: Mário

Nome: Senhor

Nome: dadsadas

Nome: Lourival

<localhost:3000/autor/>

← → ↻ ⓘ localhost:3000/autor/ 🔍 ⚙️ ⌂ Entrar

```

[{"id":1,"nome":"Mário","createdAt":"2022-12-06T20:11:49.000Z","updatedAt":"2022-12-06T20:11:49.000Z"}, {"id":2,"nome":"Senhor","createdAt":"2022-12-06T21:07:03.000Z","updatedAt":"2022-12-06T21:07:03.000Z"}, {"id":3,"nome":"dadsadas","createdAt":"2022-12-06T21:49:25.000Z","updatedAt":"2022-12-06T21:49:25.000Z"}, {"id":4,"nome":"Lourival","createdAt":"2022-12-06T21:53:01.000Z","updatedAt":"2022-12-06T21:53:01.000Z"}]

```