

# Usabilidade, Desenvolvimento Web, Mobile e Jogos

APP Navegação



Prof. Juliano Gaspar





## Prof. Dr. Juliano Gaspar

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## Formação

- **Cientista da Computação** pela UNIVALI (SC)
- **Mestre em Informática Médica** pela UP (Portugal)
- **Doutor em Saúde Digital** pela UFMG
- **Pós-doutor em Tec. para Educação em Saúde** pela UFMG

## Educação

### **Professor Convidado do Departamento de GOB da UFMG**

- o Introdução à Pesquisa Científica II
- o Informática Médica
- o Informação em Decisão em Saúde

### **Professor Grupo Ânima: Una, Unibh e Faseh**

- o Projetos e Processos em TI
- o Usabilidade, desenvolvimento Web, Mobile e Jogos
- o Pós-graduação em Saúde Digital e Telemedicina

### **Professor da Facisa BH**

- o Linguagens de Programação (Linguagem C)
- o Programação orientada à objetos (Python)
- o Programação para dispositivos móveis
- o Programação para Web

### **Professor da IESLA**

- o Gestão das Tecnologias da Informação

## Inovação, Pesquisa, Desenvolvimento e Extensão

- o Vice-coordenador do núcleo de pesquisa em Informática Aplicada à Saúde da UFMG
- o Membro do CINTESIS - Universidade Porto - Portugal
- o Membro da SBIS - Sociedade Brasileira de Informática em Saúde
- o Presidente do Comitê Científico do CBIS 2022
- o Revisor de revistas científicas

### **Linhas de pesquisa e projetos**

- o Detecção da prematuridade através da interação entre a luz e a pele neonatal
- o Sistema de Informação para Atenção Materno Infantil
- o Eliminando a morte materna: uma resposta a esse desafio no seu bolso.

### **Programas e projetos de extensão**

- o Informática e Saúde
- o Prevenção da COVID-19 em APP
- o Meu Pré-natal (APP)
- o Projeto Educação Continuada em Informática



# Usabilidade, Desenvolvimento Web, Mobile e Jogos

Prof. Juliano Gaspar

## Contatos

### Email

[julianogaspar@gmail.com](mailto:julianogaspar@gmail.com)

### Instagram

[@prof.julianogaspar](https://www.instagram.com/prof.julianogaspar)

### Twitter

<https://twitter.com/JulianoGaspar21>

### Currículo Lattes

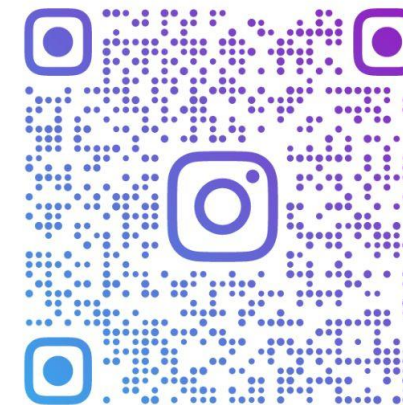
<http://lattes.cnpq.br/3926707936198077>

### Orcid ID

<https://orcid.org/0000-0003-0670-9021>

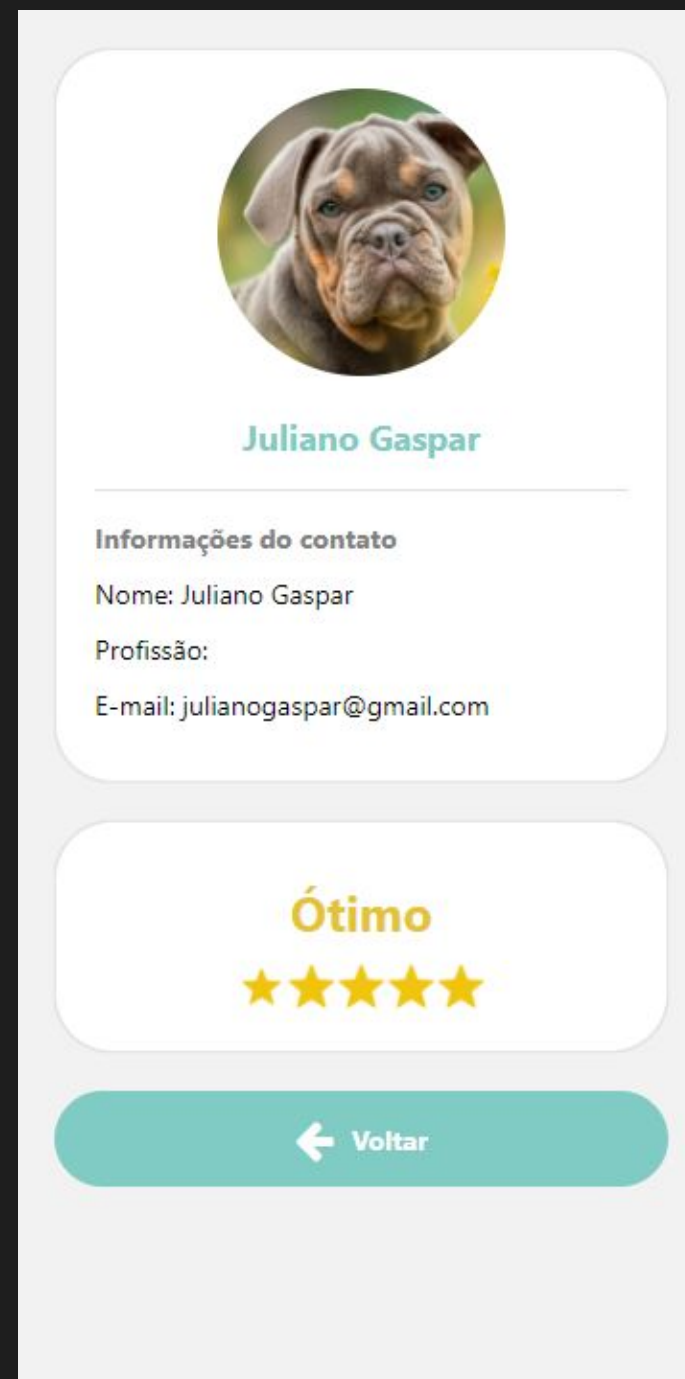
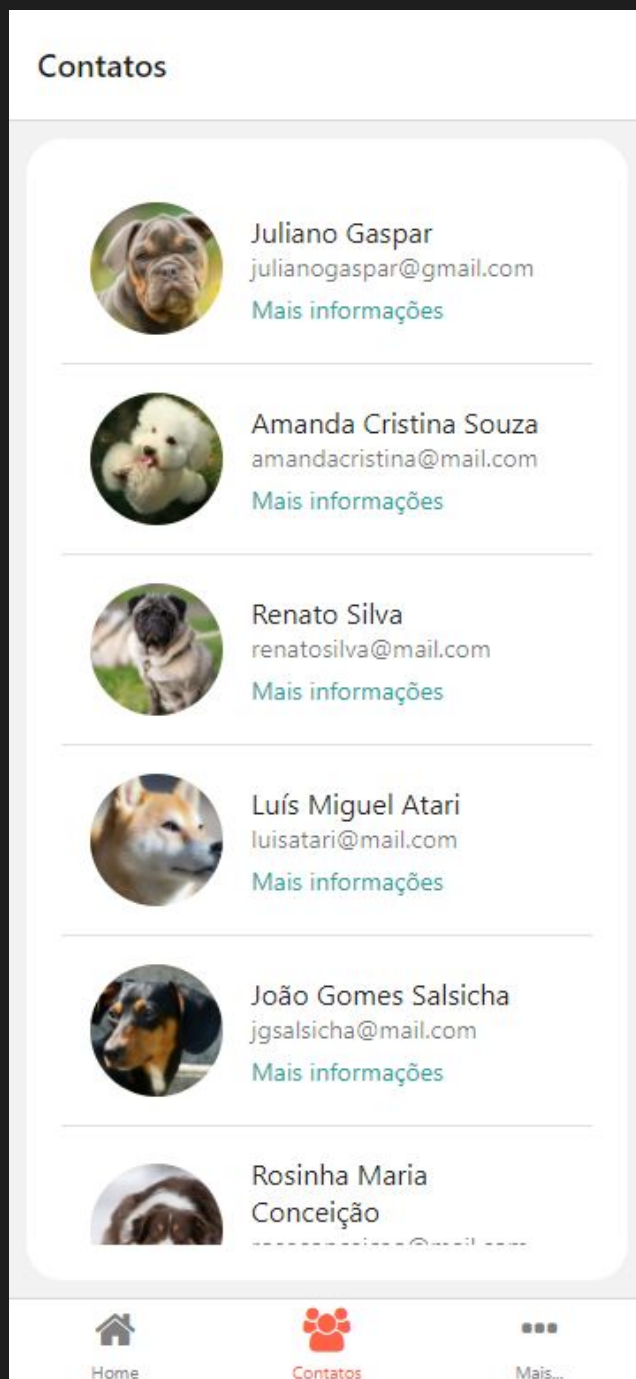
### Research Gate

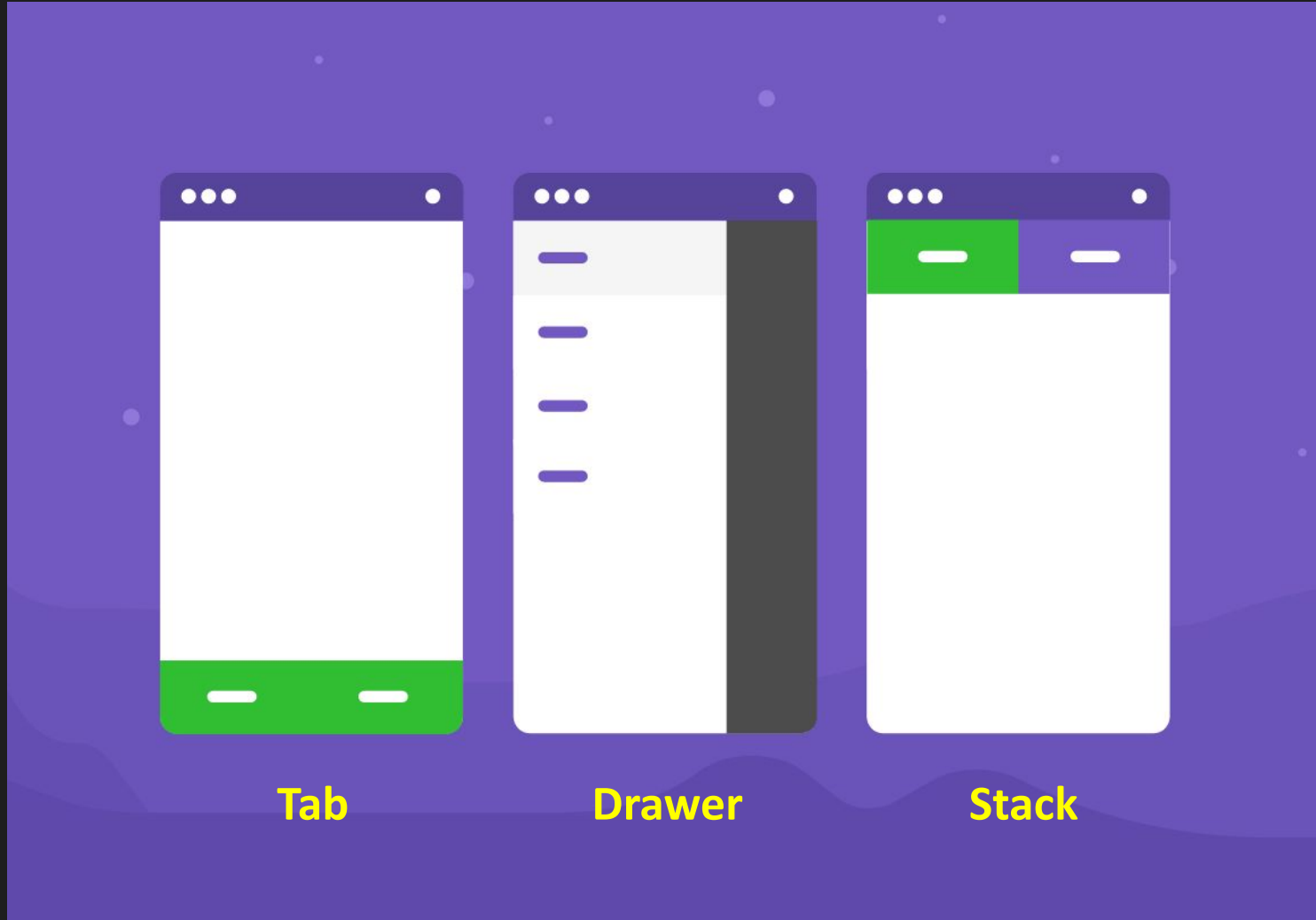
[https://www.researchgate.net/profile/Juliano\\_Gaspar](https://www.researchgate.net/profile/Juliano_Gaspar)



**PROF.JULIANOGASPAR**







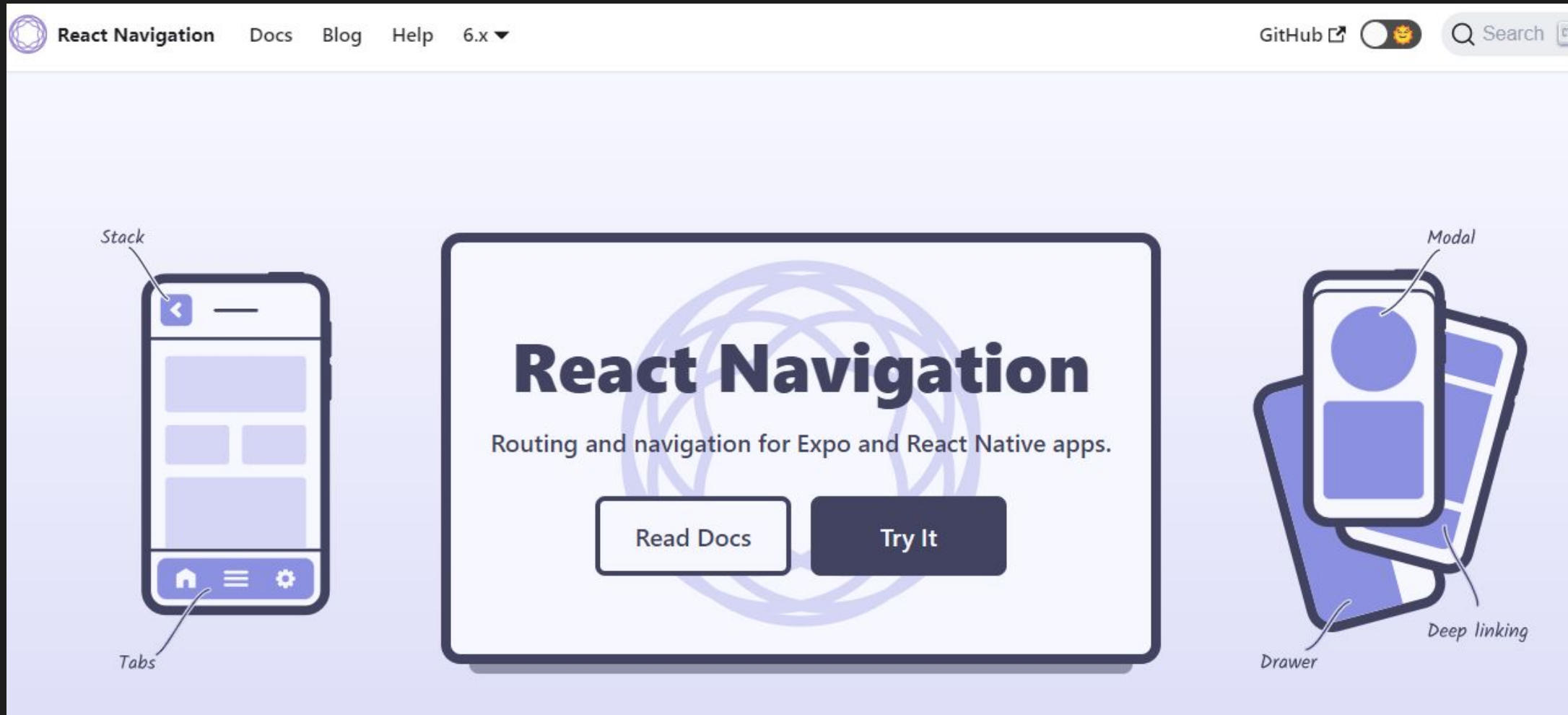
## Tópicos abordados:

- Navigation
- Stack Navigation
- Tab Navigation
- Drawer Navigation
- 
- entre outros





<https://reactnavigation.org/>



**Recomendação de leitura**

<https://blog.rocketseat.com.br/navegacao-react-native/>

<https://reactnavigation.org/docs/getting-started>



Fundamentals ▼

Getting started

Hello React Navigation

Moving between screens

Passing parameters to routes

Configuring the header bar

Header buttons

Nesting navigators

Navigation lifecycle

Next steps

Glossary of terms

Troubleshooting

Limitations

Guides >

API Reference >

Build your own Navigator >

Additional Resources >

Meta >

## Installation

Install the required packages in your React Native project:

npm

Yarn

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

React Navigation is made up of some core utilities and those are then used by navigators to create the navigation structure. Don't worry too much about this for now, it'll become clear soon enough! To frontload the installation workflow, we'll first configure dependencies used by most navigators, then we can move forward with starting to write some code.

The libraries we will install now are `react-native-screens` and `react-native-safe-area-context`. If you have them already installed and at the latest version, you are done here! Otherwise, read on.

### Installing dependencies into an Expo managed project

In your project directory, run:

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

This will install versions of these libraries that are compatible.

You can now continue to "Hello React Navigation" to start writing some code.



PROBLEMAS SAÍDA TERMINAL CONSOLE DE DEPURAÇÃO

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

```
PS C:\Users\Juliano\Documents\ProjetosReact\Testes> expo init AppNavegacao
```

```
? Choose a template: » - Use arrow-keys. Return to submit.
```

```
----- Managed workflow -----
```

```
> blank a minimal app as clean as an empty canvas
```

```
blank (TypeScript) same as blank but with TypeScript configuration
```

```
tabs (TypeScript) several example screens and tabs using react-navigation and TypeScript
```

```
----- Bare workflow -----
```

```
minimal bare and minimal, just the essentials to get you started
```

```
cd .\AppNavegacao\
```

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

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

```
npm install @react-navigation/drawer
```

```
npm install @react-navigation/bottom-tabs
```



Se tiver usando o expo, instalar essas dependencias:

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





## App.js

```
import React from 'react';
import { NavigationContainer } from '@react-navigation/native'
import { createStackNavigator } from '@react-navigation/stack'
import Contacts from './src/pages/contats'
import Information from './src/pages/information'

const Stack = createStackNavigator();

export default function App() {
  return (

  )
}
```

## STACK



## App.js

```
import React from 'react';
import { NavigationContainer } from '@react-navigation/native'
import { createStackNavigator } from '@react-navigation/stack'
import Contacts from './src/pages/contats'
import Information from './src/pages/information'

const Stack = createStackNavigator();

export default function App() {
  return (
    <NavigationContainer>
      <Stack.Navigator>
        <Stack.Screen name='Contacts' component={Contacts} />
        <Stack.Screen name='Information' component={Information} />
      </Stack.Navigator>
    </NavigationContainer>
  )
}
```





## Contacts/index.js

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

export default function Contacts() {
  return (
    <View>
      <Text>Contacts</Text>
    </View>
  )
}
```

## Information/index.js

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

export default function Information() {
  return (
    <View>
      <Text>Information</Text>
    </View>
  )
}
```

Contacts

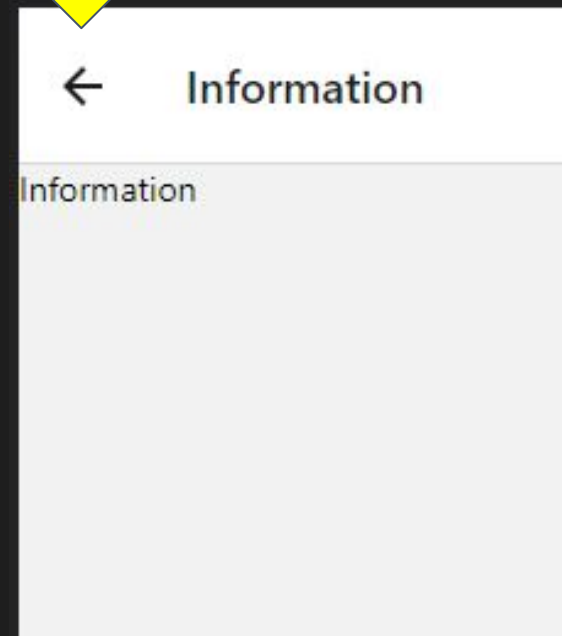
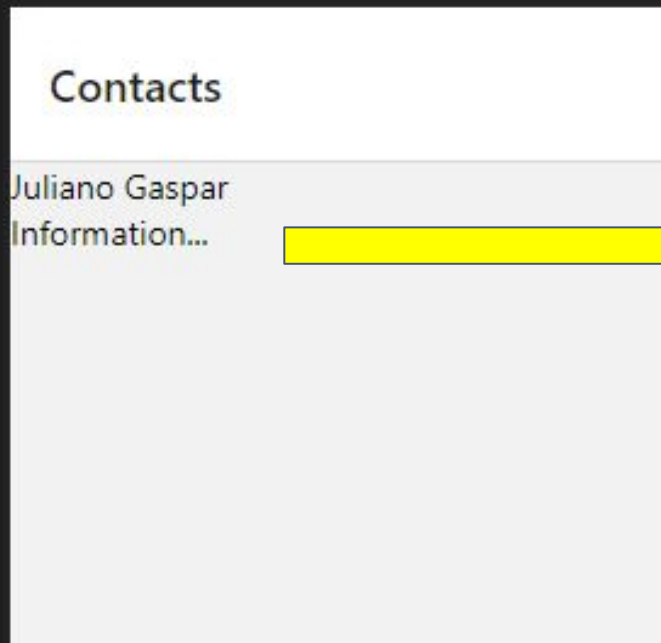
Contacts



## Contacts/index.js

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

export default function Contacts({ navigation }) {
  return (
    <View>
      <Text>Juliano Gaspar</Text>
      <Text
        onPress={() => navigation.navigate('Information')}
      >Information...</Text>
    </View>
  )
}
```







## App.js

```
import React from 'react';
import { NavigationContainer } from '@react-navigation/native'
// import { createStackNavigator } from '@react-navigation/stack'
import { createDrawerNavigator } from '@react-navigation/drawer'
import Contacts from '../src/pages/contats'
import Information from '../src/pages/information'

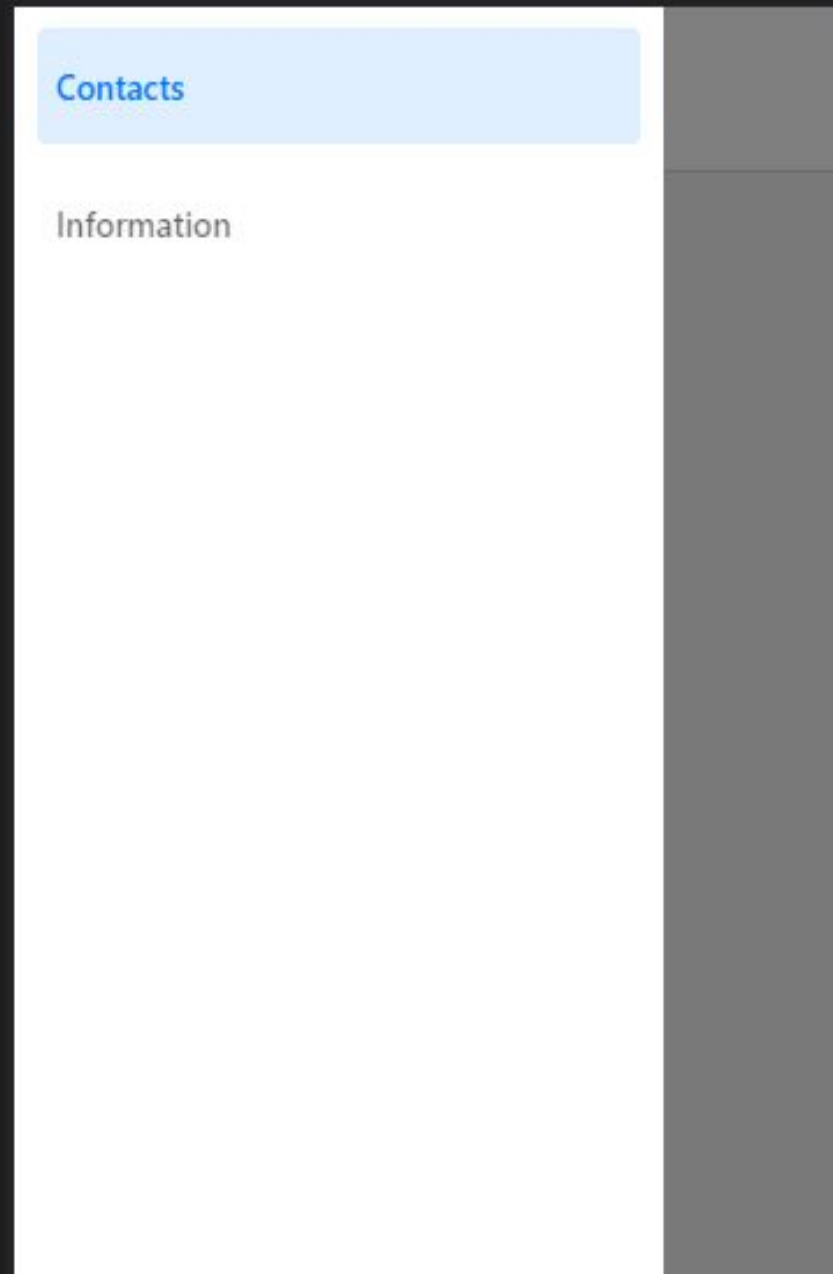
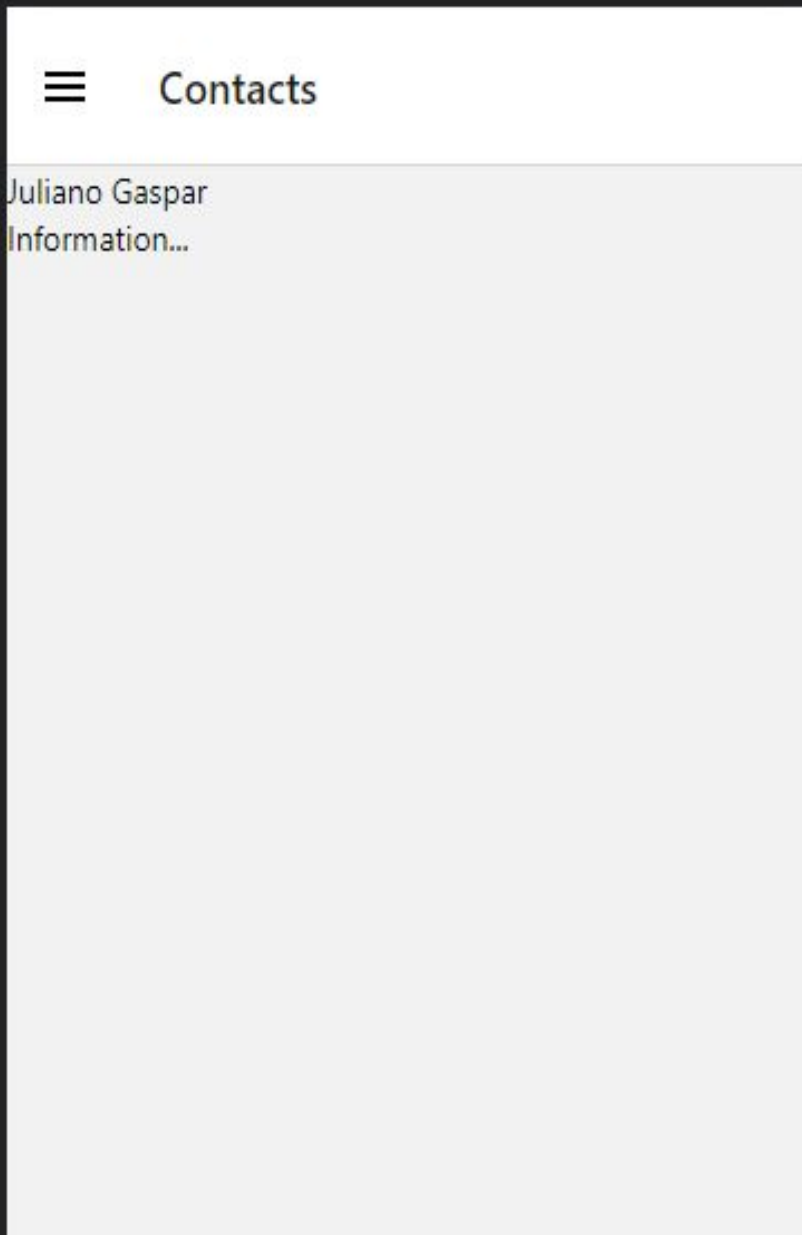
// const Stack = createStackNavigator();
const Drawer = createDrawerNavigator();

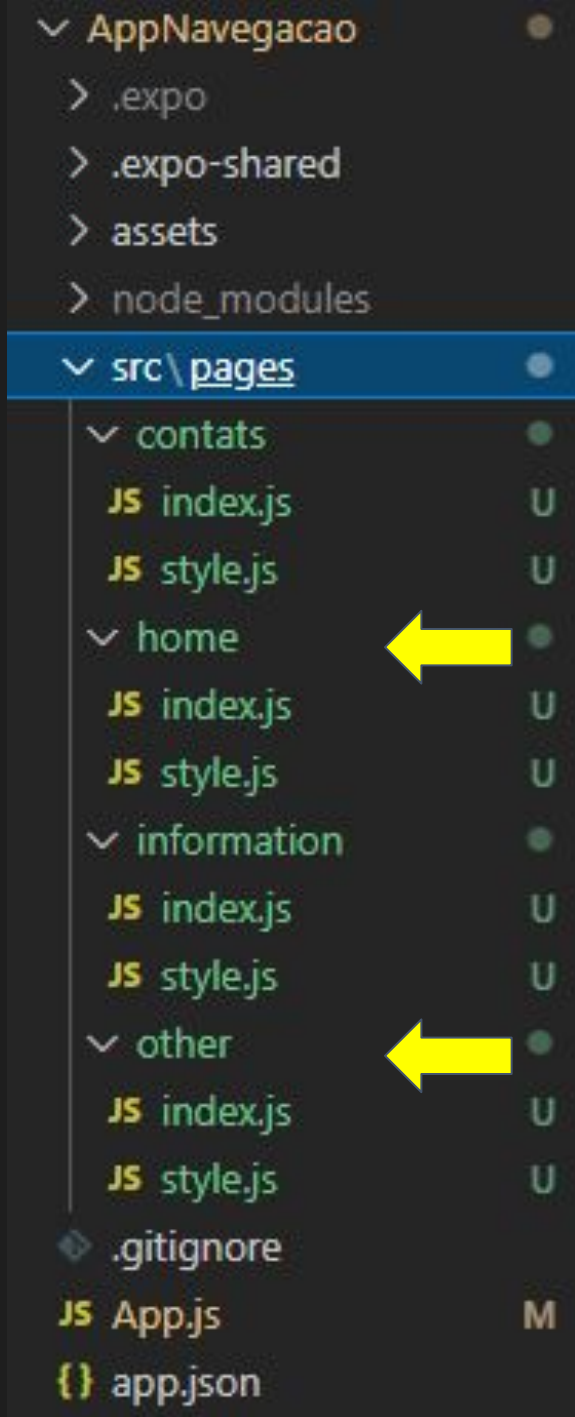
export default function App() {
  return (
    <NavigationContainer>
      {/* <Stack.Navigator>
        <Stack.Screen name='Contacts' component={Contacts} />
        <Stack.Screen name='Information' component={Information} />
      </Stack.Navigator> */}

      <Drawer.Navigator>
        <Drawer.Screen name='Contacts' component={Contacts} />
        <Drawer.Screen name='Information' component={Information} />
      </Drawer.Navigator>

    </NavigationContainer>
  )
}
```

## DRAWER



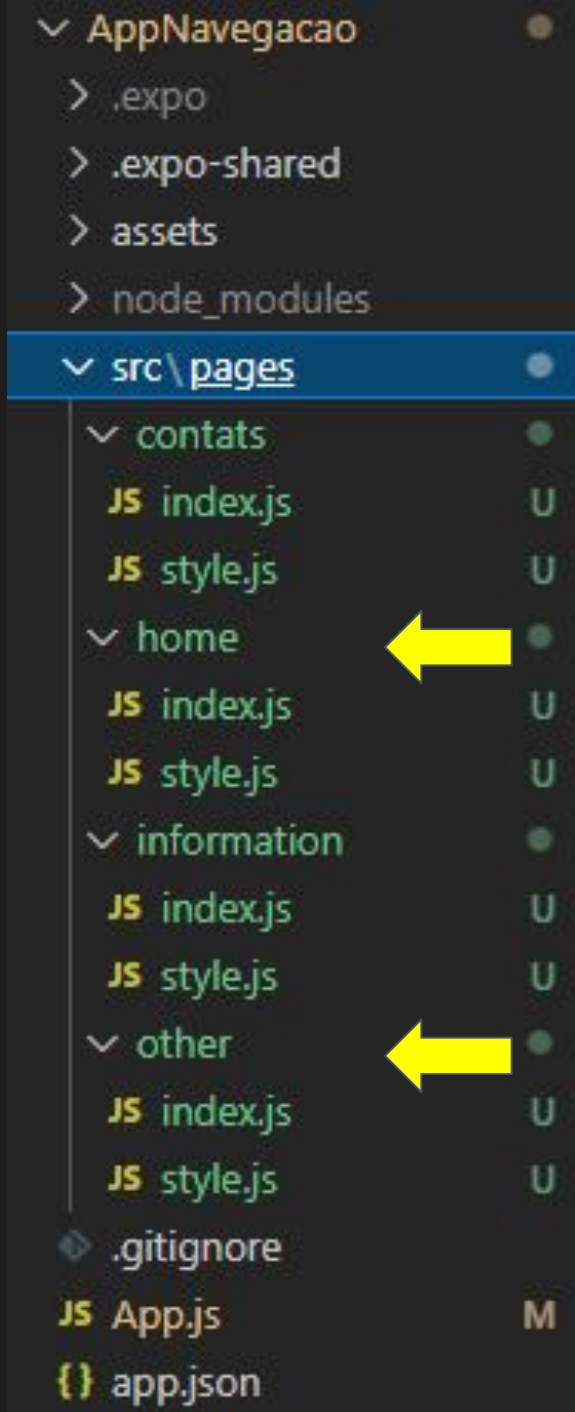


## Tab Navigation

## TABS

Para facilitar o entendimento do TABS vamos criar mais duas pages:

- Home
- Other



# Tab Navigation

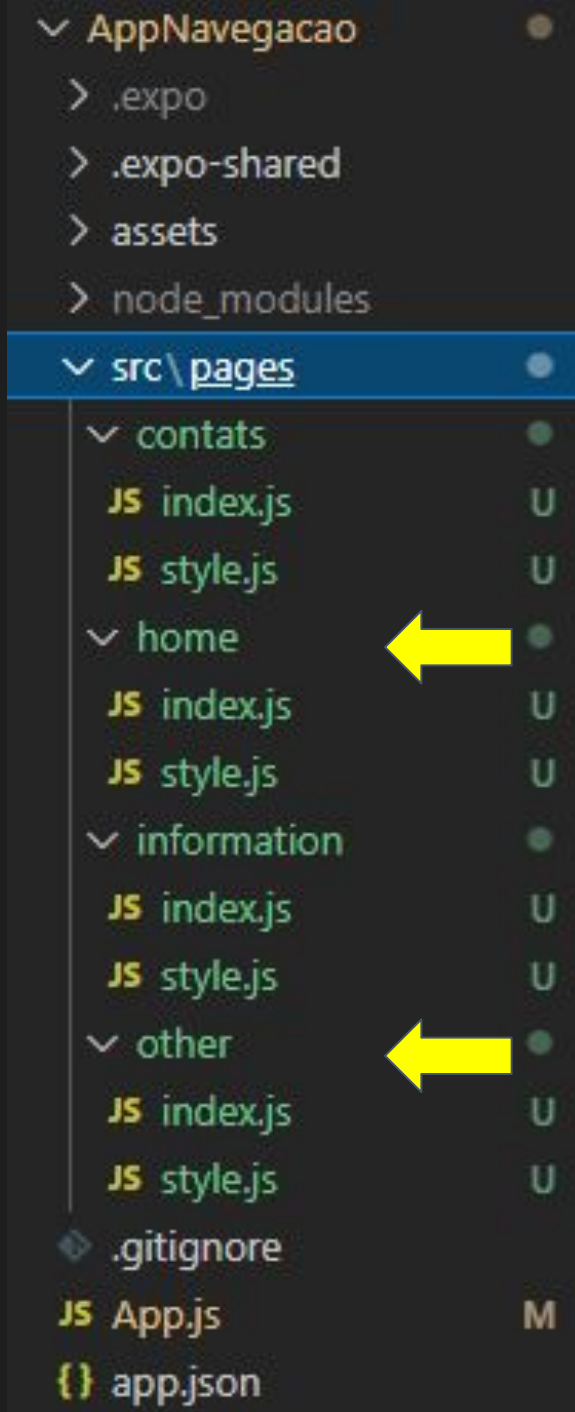
## App.js

```
import React from 'react'
import { NavigationContainer } from '@react-navigation/native'
// import { createStackNavigator } from '@react-navigation/stack'
import { createBottomTabNavigator } from '@react-navigation/bottom-tabs'
import Contacts from './src/pages/contats'
import Information from './src/pages/information'
import Home from './src/pages/home'
import Other from './src/pages/other'

// const Stack = createStackNavigator()
const Tab = createBottomTabNavigator()

export default function App() {
  return (
    <NavigationContainer>
      <Tab.Navigator>
        <Tab.Screen name='Home' component={Home} />
        <Tab.Screen name='Contacts' component={Contacts} />
        <Tab.Screen name='Others' component={Other} />
      </Tab.Navigator>
    </NavigationContainer>
  )
}
```





## home/index.js

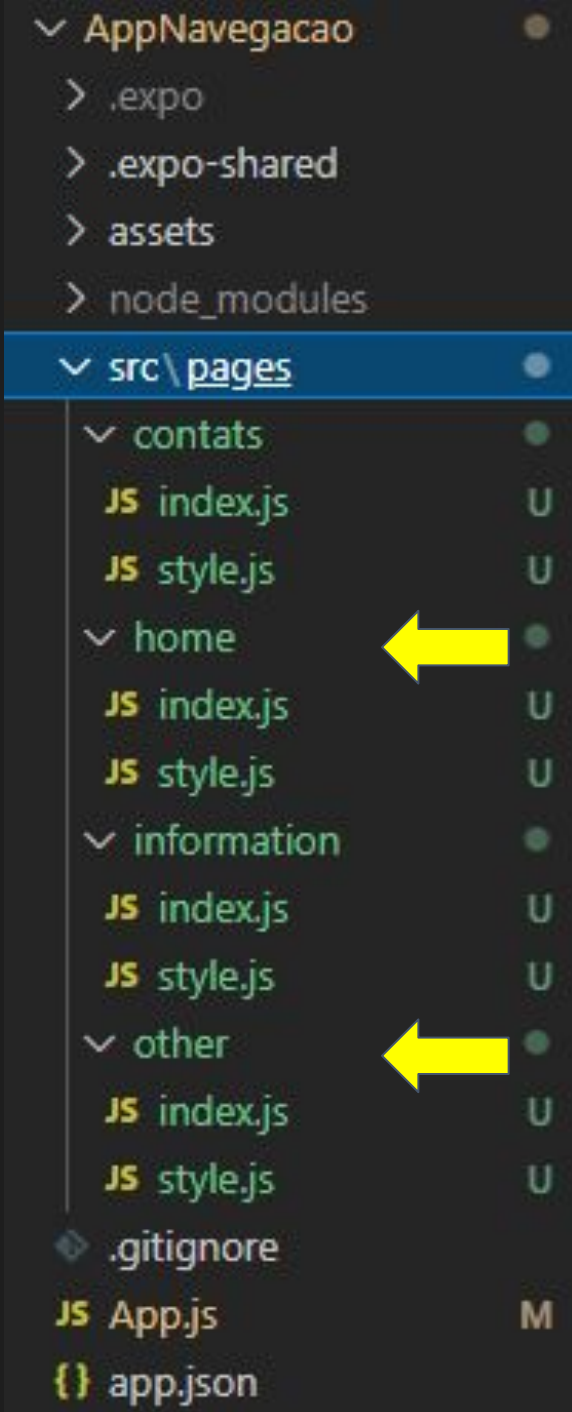
```
import React from 'react'
import { Text, View } from 'react-native'
import styles from './style'
```

```
export default function Home() {
  return (
    <View style={styles.viewPrincipal}>
      <Text>APP Navegação</Text>
      <Text>Home</Text>
    </View>
  )
}
```

```
import { StyleSheet } from "react-native";

const styles = StyleSheet.create({
  viewPrincipal: {
    backgroundColor: '#fff',
    borderRadius: 20,
    padding: 20,
    margin: 10,
  },
});

export default styles
```



## other/index.js

```
import React from 'react'
import { Text, View } from 'react-native'
import styles from './style'

export default function Other() {
  return (
    <View style={styles.viewPrincipal}>
      <Text>APP</Text>
      <Text>Outras informações do APP</Text>
    </View>
  )
}
```

```
import { StyleSheet } from "react-native";

const styles = StyleSheet.create({
  viewPrincipal: {
    backgroundColor: '#fff',
    borderRadius: 20,
    padding: 20,
    margin: 10,
  },
});

export default styles
```



# Melhorando contatos

```
import React from 'react'
import { Text, View } from 'react-native'
import styles from './style'

export default function Contacts({ navigation }) {
  return (
    <View>
      <View style={styles.viewContact}>
        <Text>Nome: Juliano Gaspar</Text>
        <Text>Telefone: (31) 99999-99999999</Text>
        <Text
          style={styles.textInformation}
          onPress={() => navigation.navigate('Information')}
        >Information...</Text>
      </View >
      <View style={styles.viewContact}>
        <Text>Nome: Loreen Gaspar</Text>
        <Text>Telefone: (31) 55555-5555555</Text>
        <Text
          style={styles.textInformation}
          onPress={() => navigation.navigate('Information')}
        >Information...</Text>
      </View>
    </View >
  )
}
```



# Melhorando contatos

```
import { StyleSheet } from "react-native";

const styles = StyleSheet.create({
  viewContact: {
    flex: 1,
    backgroundColor: '#fff',
    borderRadius: 20,
    padding: 20,
    margin: 10,
  },
  textInformation: {
    color: 'blue',
    marginTop: 5
  }
});

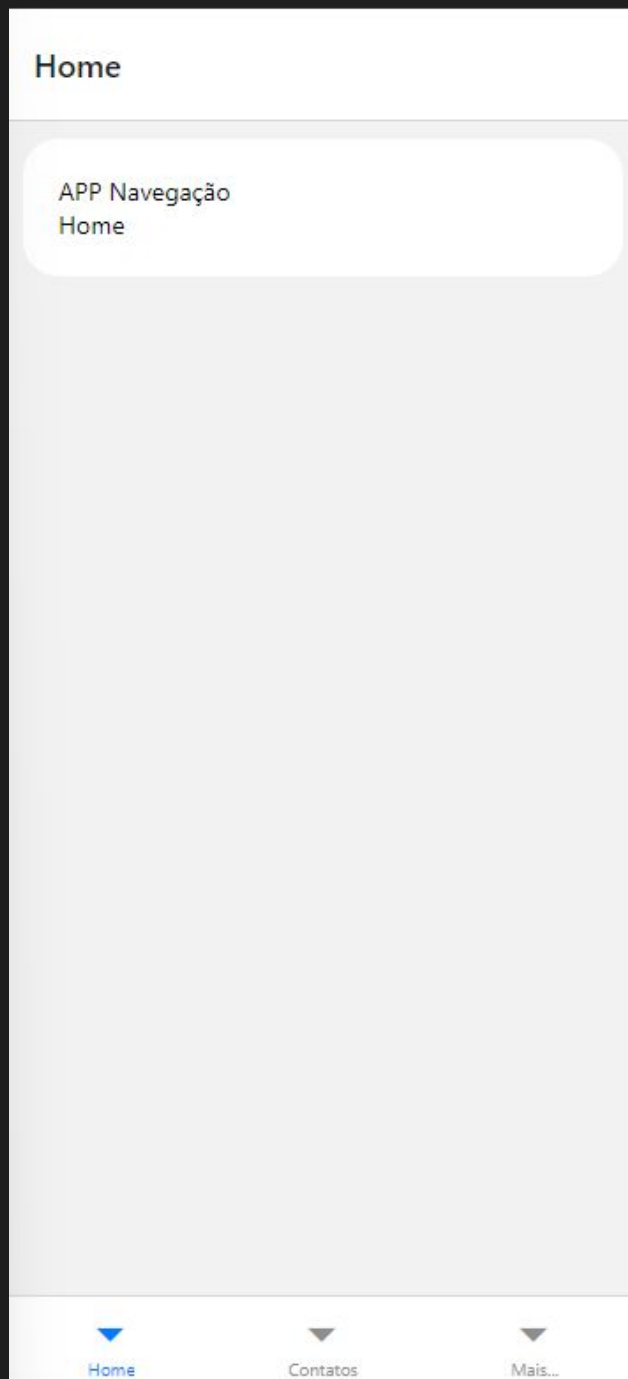
export default styles
```

## Contacts

Nome: Juliano Gaspar  
Telefone: (31) 99999-999999999  
[Information...](#)

Nome: Loreen Gaspar  
Telefone: (31) 55555-5555555  
[Information...](#)







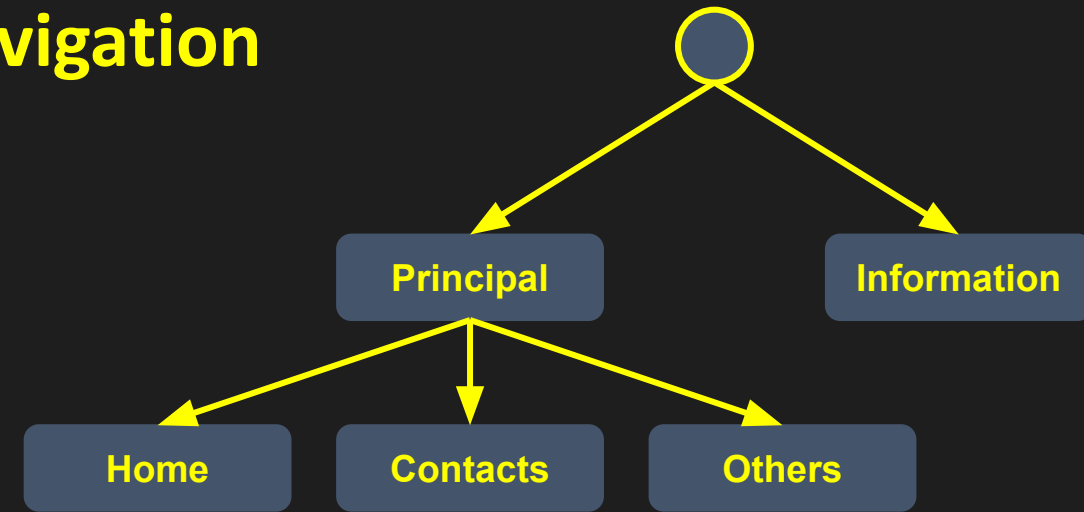
# Stack Navigation com o Tab Navigation

## App.js

```
import Home from './src/pages/home'  
import Other from './src/pages/other'
```

```
const Stack = createStackNavigator()  
const Tab = createBottomTabNavigator()
```

```
function Tabs() {  
  return (  
    <Tab.Navigator>  
      <Tab.Screen name='Home' component={Home} />  
      <Tab.Screen name='Contacts' component={Contacts} />  
      <Tab.Screen name='Others' component={Other} />  
    </Tab.Navigator>  
  )  
}  
  
export default function App() {  
  return (  
    <NavigationContainer>  
      <Stack.Navigator>  
        <Stack.Screen name='Principal' component={Tabs} />  
        <Stack.Screen name='Information' component={Information} />  
      </Stack.Navigator>  
    </NavigationContainer>  
  )  
}
```





## Outro exemplo, invertendo a lógica.

Nos dois casos tem de trabalhar o Style para ajustar a barra superior.

```
function NavigationByStack() {  
  return (  
    <Stack.Navigator>  
      <Stack.Screen name="Contacts" component={Contacts} />  
      <Stack.Screen name="Information" component={Information} />  
    </Stack.Navigator>  
  );  
}  
  
export default function App() {  
  return (  
    <NavigationContainer>  
      <Tab.Navigator>  
        <Tab.Screen name='Home' component={Home} />  
        <Tab.Screen name='Contatos' component={NavigationByStack} />  
        <Tab.Screen name='Mais...' component={Other} />  
      </Tab.Navigator>  
    </NavigationContainer>  
  )  
}
```



```
const Stack = createStackNavigator()
const Tab = createBottomTabNavigator()
```

```
function Tabs() {
  return (
    <Tab.Navigator screenOptions={{ headerShown: false }} >
      <Tab.Screen name='Home' component={Home} />
      <Tab.Screen name='Contatos' component={Contacts} />
      <Tab.Screen name='Mais...' component={Other} />
    </Tab.Navigator>
  )
}
```



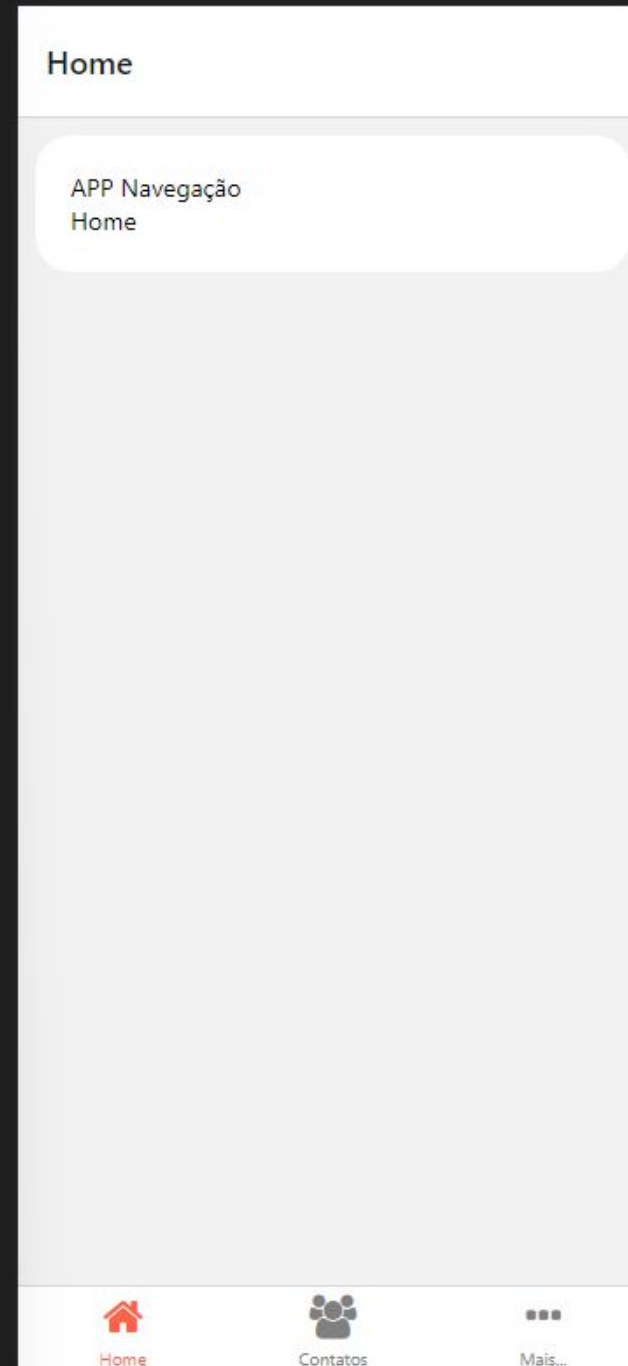
Para não duplicar o cabeçalho.

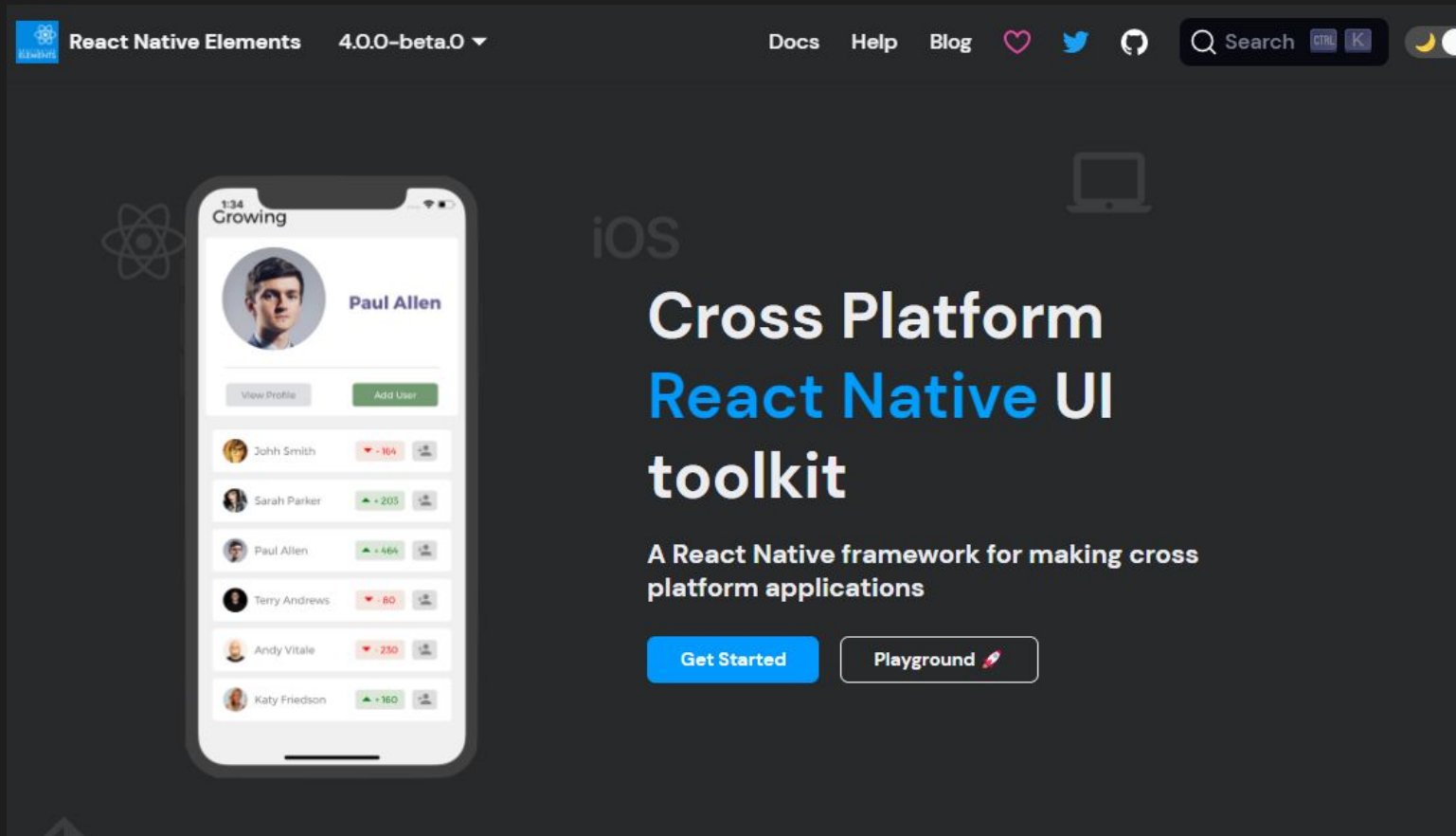
```
export default function App() {
  return (
    <NavigationContainer>
      <Stack.Navigator >
        <Stack.Screen name='Principal' component={Tabs} />
        <Stack.Screen name='Information' component={Information} />
      </Stack.Navigator>
    </NavigationContainer>
  )
}
```





```
import { FontAwesome } from '@expo/vector-icons'
function Tabs() {
  return (
    <Tab.Navigator
      // screenOptions={{ headerShown: false }}
      screenOptions={({ route }) => ({
        tabBarIcon: ({ focused, color, size }) => {
          let iconName = 'home';
          switch (route.name) {
            case 'Home':
              iconName = 'home'
              break;
            case 'Contatos':
              iconName = 'users'
              break;
            case 'Mais...':
              iconName = 'ellipsis-h'
              break;
          }
          return <FontAwesome name={iconName} size={size} color={color} />;
        },
        tabBarActiveTintColor: 'tomato',
        tabBarInactiveTintColor: 'gray',
      ))}
    >
    <Tab.Screen name='Home' component={Home} />
    <Tab.Screen name='Contatos' component={Contacts} />
    <Tab.Screen name='Mais...' component={Other} />
  </Tab.Navigator>
)
}
```





## Tópicos abordados:

- Componentes de interface
- Dados
- Json
- entre outros

<https://reactnativeelements.com/docs/>



## React Native Elements

### IT STARTS BASIC

Getting Started

Overview

Customization

Usage on the Web

Troubleshooting

### COMPONENTS

AirbnbRating

Avatar

Badge

BottomSheet

Button

ButtonGroup

Card

CheckBox

Chip

Version: 4.0.0-beta.0

# Getting Started

## NOTE

The aim of React Native Elements is to provide an all-in-one UI kit for creating apps in react native. There are many great ui components made by developers all around open source. React Native Elements takes the hassle of assembling these packages together by giving you a ready made kit with consistent api and look and feel.

## Stable

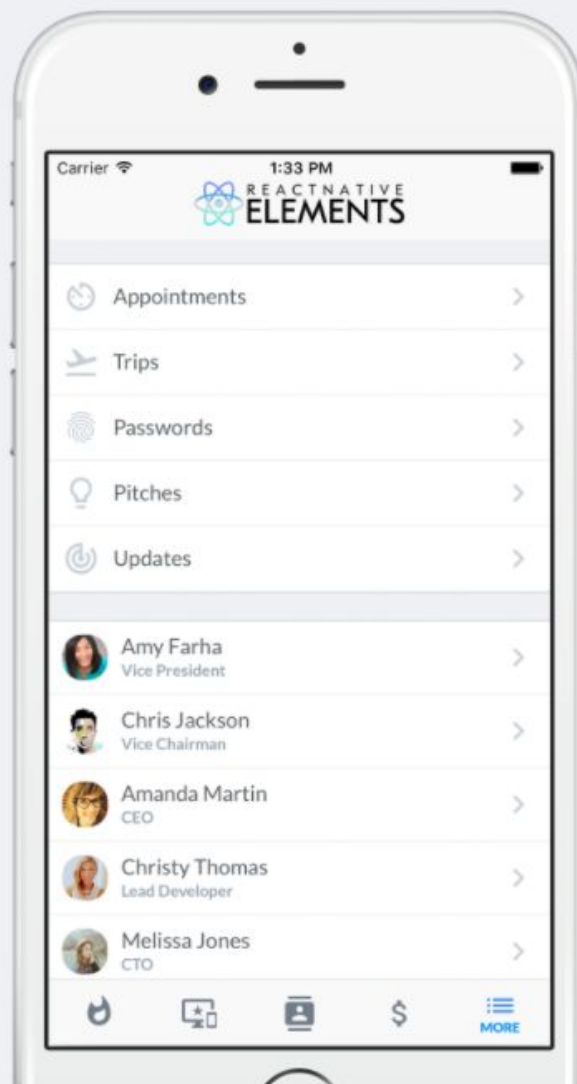
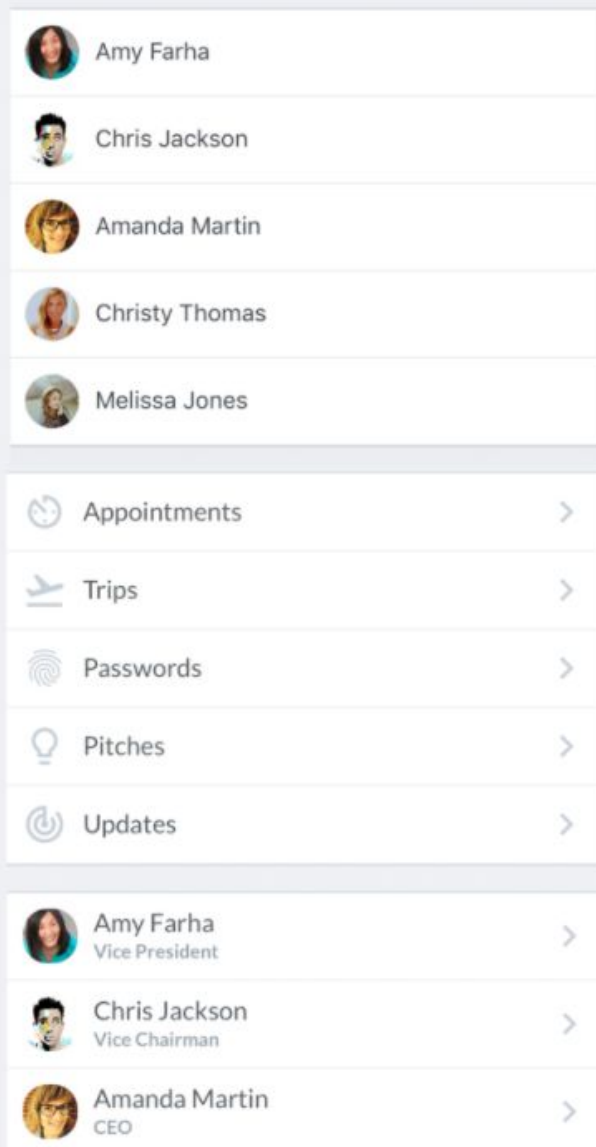
NPM

Yarn

```
npm install react-native-elements
```

# ListItem

ListItems are used to display rows of information, such as a contact list, playlist, or menu. They are very customizable and can contain switches, avatars, badges, icons, and more.





PROBLEMAS SAÍDA TERMINAL CONSOLE DE DEPURAÇÃO

Web Bundling complete 451ms

› Stopping Webpack server

› Stopped server

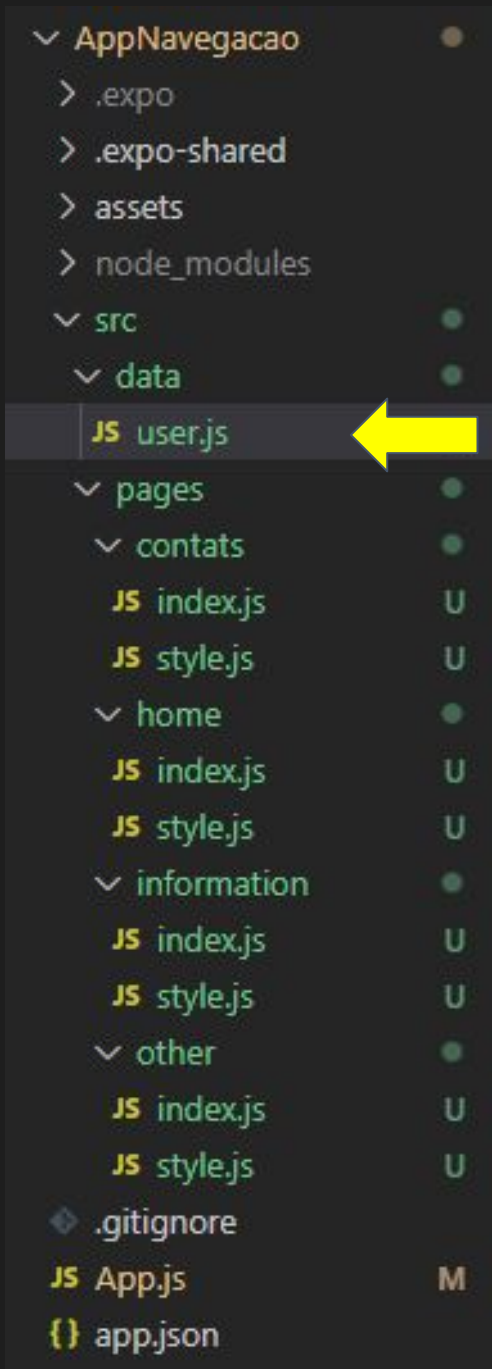
PS C:\Users\Juliano\Documents\ProjetosReact\Testes\AppNavegacao> **npm** install react-native-elements

added 21 packages, and audited 937 packages in 16s

Abrir o aplicativo APP Navegação

**npm install react-native-elements**





Dentro de src criar

- pasta 'data'
- e um arquivo user.js esse arquivo será um JSON com os dados de contatos.





```
export default [  
  {  
    id: 1,  
    name: 'Juliano Gaspar',  
    email: 'julianogaspar@gmail.com',  
    avatarUrl: 'https://cdn.pixabay.com/photo/2019/05/27/19/08/puppy-4233378_960_720.jpg',  
  },  
  {  
    id: 2,  
    name: 'Amanda Cristina Souza',  
    email: 'amandacristina@mail.com',  
    avatarUrl: 'https://cdn.pixabay.com/photo/2015/05/05/08/36/pets-753464_960_720.jpg',  
  },  
  {  
    id: 3,  
    name: 'Renato Silva',  
    email: 'renatosilva@mail.com',  
    avatarUrl: 'https://cdn.pixabay.com/photo/2019/07/03/10/16/pug-4314106_960_720.jpg',  
  },  
  {  
    id: 4,  
    name: 'Luís Miguel Atari',  
    email: 'luisatari@mail.com',  
    avatarUrl: 'https://cdn.pixabay.com/photo/2018/01/17/00/46/shiba-inu-3087207_960_720.jpg',  
  },  
  {  
    id: 5,  
    name: 'João Gomes Salsicha',  
    email: 'jgsalsicha@mail.com',  
    avatarUrl: 'https://cdn.pixabay.com/photo/2012/08/28/00/43/dog-55141_960_720.jpg',  
  },  
  {  
    id: 6,  
    name: 'Rosinha Maria Conceição',  
    email: 'roseconceicao@mail.com',  
    avatarUrl: 'https://cdn.pixabay.com/photo/2021/01/09/14/04/australian-shepherd-5902417_960_720.jpg',  
  },  
]
```





## contacts/index.js

```
import React from 'react'
import { Text, View, FlatList } from 'react-native'
import styles from './style'
import users from '../../data/user'

export default function Contacts({ navigation }) {

  function getUserItem({ item: user }) {
    return <Text>{user.name}</Text>
  }

  return (
    <View>
      <FlatList
        data={users}
        keyExtractor={user => user.id.toString()}
        renderItem={getUserItem}
      />

      <View style={styles.viewContact}>
        <Text>Nome: Juliano Gaspar</Text>
        <Text>Telefone: (31) 99999-99999999</Text>
      </View>
      <View style={styles.viewContact}>
        <Text>Nome: Loreen Gaspar</Text>
        <Text>Telefone: (31) 55555-5555555</Text>
      </View>
    </View>
  )
}
```

## Contatos

Juliano Gaspar  
Amanda Cristina Souza  
Renato Silva  
Luís Miguel Atari  
João Gomes Salsicha  
Rosinha Maria Conceição

Nome: Juliano Gaspar  
Telefone: (31) 99999-99999999

[Information...](#)

Nome: Loreen Gaspar  
Telefone: (31) 55555-5555555

[Information...](#)



Home



Contatos



Mais...



## contacts/index.js

```
import { ListItem, Avatar } from 'react-native-elements' ←

export default function Contacts({ navigation }) {

  function getUserItem({ item: user }) {
    return (
      <View styles={{ flex: 1 }}>
        <ListItem key={user.id} bottomDivider >
          <Avatar rounded size='large' source={{ uri: user.avatarUrl }} /> ←
          <ListItem.Content>
            <ListItem.Title>{user.name}</ListItem.Title>
            <ListItem.Subtitle>{user.email}</ListItem.Subtitle>
            <Text
              style={styles.textInformation}
              onPress={() => navigation.navigate('Information', { user })} ←
            >Mais informações</Text>
          </ListItem.Content>
        </ListItem>
      </View>
    )
  }

  return (
    <View style={styles.viewContact}> ←
      <FlatList
        data={users}
        keyExtractor={user => user.id.toString()}
        renderItem={getUserItem}
      />
    </View >
  )
}
```



## contacts/style.js

```
import { StyleSheet } from "react-native";
```

```
const styles = StyleSheet.create({  
  viewContact: {  
    flex: 1,  
    backgroundColor: '#fff',  
    borderRadius: 20,  
    padding: 20,  
    margin: 10,  
  },  
  textInformation: {  
    color: '#26A69A',  
    marginTop: 5  
  }  
});
```

```
export default styles
```

## Contatos



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Home



Contatos



Mais...



# Melhorando informações

## information/index.js

```
import React from 'react'
import { Text, View } from 'react-native'
import styles from './style'

export default function Information({ route }) {
  return (
    <View style={styles.viewContact}>
      <Text>Information</Text>
      <Text>Nome: {route.params?.user.name}</Text>
      <Text>Profissão: {route.params?.user.profissao}</Text>
      <Text>E-mail: {route.params?.user.email}</Text>
    </View>
  )
}
```



A partir do route.params consegue-se acessar o USER passado ao clicar em MAIS INFORMAÇÕES

Colocar um ? após params faz com que ele deixe vazio caso não receba determinado parâmetro

Information  
Nome: Juliano Gaspar  
Profissão:  
E-mail: julianogaspar@gmail.com





## information/index.js

```
import React from 'react'
import { Text, View, TouchableOpacity } from 'react-native'
import styles from './style'
import { FontAwesome } from '@expo/vector-icons' ←

export default function Information({ route, navigation }) {
  return (
    <View>
      <View style={styles.viewContact}>
        <Text>Information</Text>
        <Text>Nome: {route.params?.user.name}</Text>
        <Text>Profissão: {route.params?.user.profissao}</Text>
        <Text>E-mail: {route.params?.user.email}</Text>
      </View>

      <TouchableOpacity ←
        style={styles.button}
        onPress={() => navigation.navigate('Contatos')}
      >
        <FontAwesome name='arrow-left' size={23} color='#fff'></FontAwesome>
        <Text style={styles.buttonText}>Voltar</Text>
      </TouchableOpacity>
    </View>
  )
}
```





## information/style.js

```
import { StyleSheet } from "react-native";

const styles = StyleSheet.create({
  viewContact: {
    backgroundColor: '#fff',
    borderRadius: 20,
    padding: 20,
    margin: 10,
  },
  button: {
    flexDirection: "row",
    justifyContent: 'center',
    alignItems: 'center',
    backgroundColor: '#80CBC4',
    margin: 20,
    height: 50,
    borderRadius: 50,
  },
  buttonText: {
    color: '#fff',
    fontWeight: 'bold',
    marginLeft: 10
  }
});

export default styles
```

Information  
Nome: Juliano Gaspar  
Profissão:  
E-mail: julianogaspar@gmail.com

← Voltar



## information/index.js

```
import { Card, Avatar } from "react-native-elements";  
  
export default function Information({ route, navigation }) {  
  return (  
    <View>  
      <Card containerStyle={styles.card} wrapperStyle={{}}>  
        <View style={styles.avatar} >  
          <Avatar rounded size='xlarge' source={{ uri: route.params?.user.avatarUrl }} />  
        </View>  
        <Card.Title style={styles.cardTitle} >{route.params?.user.name}</Card.Title>  
        <Card.Divider />  
        <View>  
          <Text style={styles.infoText}>Informações do contato</Text>  
          <Text style={styles.text}>Nome: {route.params?.user.name}</Text>  
          <Text style={styles.text}>Profissão: {route.params?.user.profissao}</Text>  
          <Text style={styles.text}>E-mail: {route.params?.user.email}</Text>  
        </View>  
      </Card>  
  
      <TouchableOpacity  
        style={styles.button}  
        onPress={() => navigation.navigate('Contatos')}  
      >  
        <FontAwesome name='arrow-left' size={23} color='#fff'></FontAwesome>  
        <Text style={styles.buttonText}>Voltar</Text>  
      </TouchableOpacity>  
    </View>  
  )  
}
```



## information/style.js

```
import { StyleSheet } from "react-native";

const styles = StyleSheet.create({
  card: {
    backgroundColor: '#fff',
    borderRadius: 30,
    padding: 20,
    margin: 20,
  },
  ...
  avatar: {
    alignItems: "center"
  },
  cardTitle: {
    marginTop: 20,
    fontSize: 18,
    color: '#80CBC4',
  },
  infoText: {
    fontWeight: 'bold',
    marginBottom: 10,
    color: 'gray',
  },
  text: {
    marginBottom: 10
  },
},
```



Juliano Gaspar

### Informações do contato

Nome: Juliano Gaspar

Profissão:

E-mail: julianogaspar@gmail.com

← Voltar



## information/index.js

```
import React, { useState } from 'react'
import { Card, Avatar, AirbnbRating } from "react-native-elements"

export default function Information({ route, navigation }) {

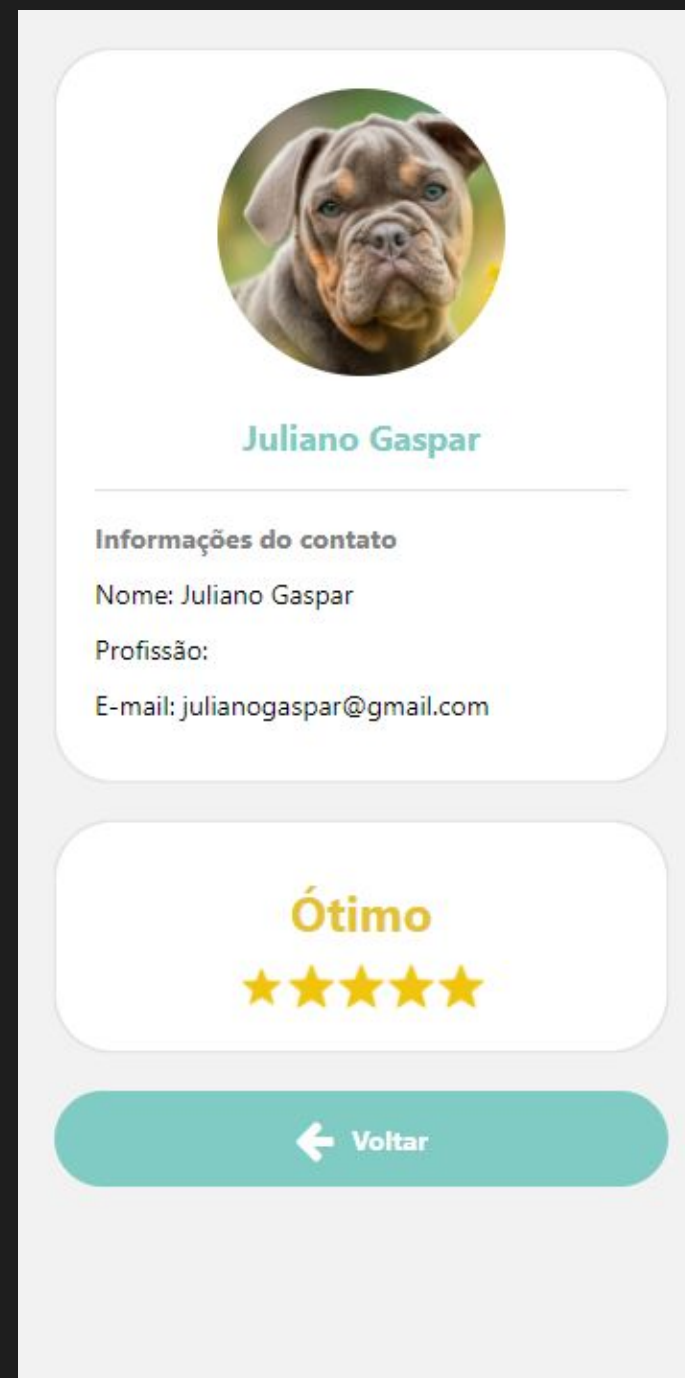
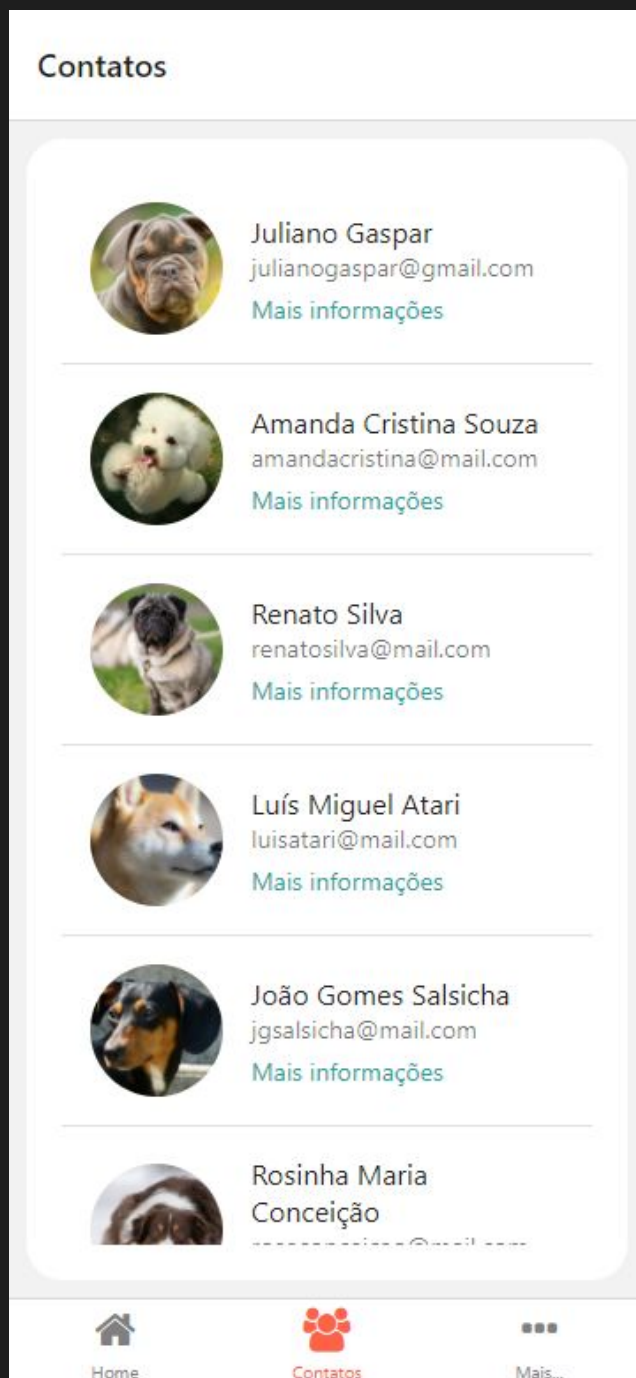
  const [avaliacao, setAvaliacao] = useState(5)

  function ratingCompleted(rating) {
    setAvaliacao(rating)
  }

  return (
    <View>

      ...

      <Card containerStyle={styles.card} wrapperStyle={{}}>
        <View>
          <AirbnbRating
            count={5}
            reviews={['Péssimo', 'Ruim', 'Bom', 'Muito bom', 'Ótimo']}
            defaultRating={5}
            size={20}
            onFinishRating={ratingCompleted}
          />
        </View>
      </Card>
    </View>
  )
}
```



**Usabilidade,  
Desenvolvimento Web, Mobile e Jogos**

**Obrigado!**

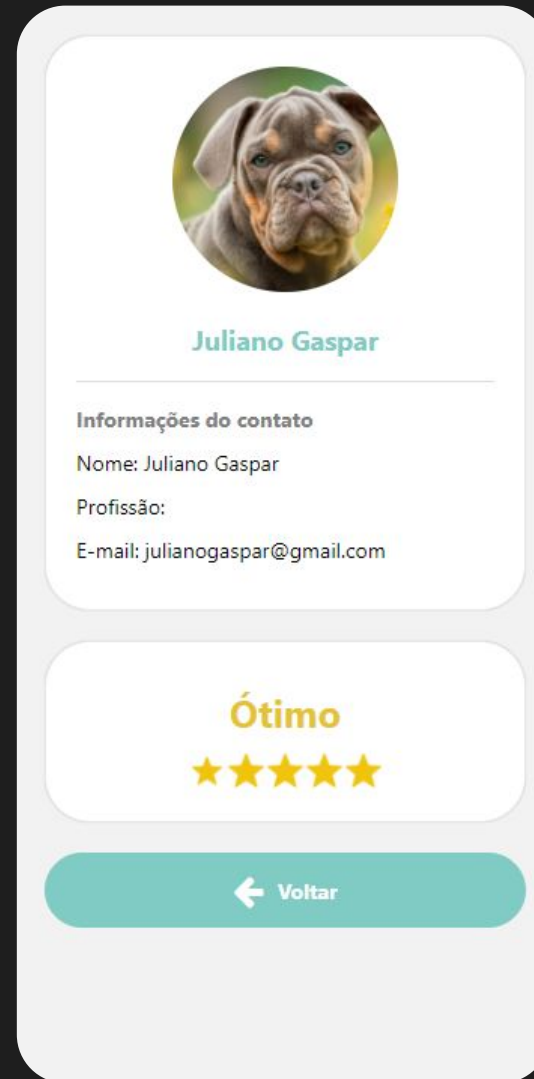
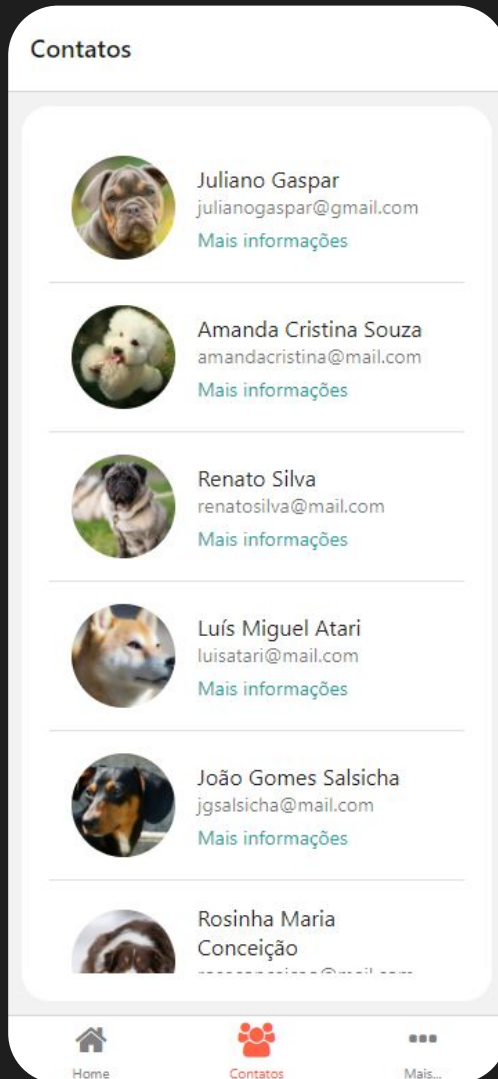


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Prof. Juliano Gaspar





## Desenvolvimento Mobile

### APP Navegação Biblioteca Elements