

Mobile Application Development

Prof. Fernando Pinéo



Tema Claro e Tema Escuro Expo Router

Criando o arq ThemeContext.jsx



```
♠ ThemeContext.jsx U X

 EXPLORADOR
∨ AULAFIREBAS... 📮 📮 🖔 🗗
                    src > context > Mr ThemeContext.isx >
 > 🗖 .expo
                           // src/context/ThemeContext.js

✓ male app

   _layout.tsx
   AlterarSenhaScreen.tsx
   CadastrarScreen tsx
                            import React, { createContext, useContext, useState } from "react";
   # HomeScreen.tsx M
                            import { Appearance } from "react-native";
   index.tsx
 > m assets
 // Criação do contexto
 > node modules
                            const ThemeContext = createContext();
 > services
 ∨ src
 // Hook customizado para acessar o tema
    ItemLoja.tsx
                            export function useTheme() {
    🏶 ThemeToggleBu... U

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    context

                              return useContext(ThemeContext);
    .gitignore
  app.json
  package-lock.json
                            // Provider que envolve toda a aplicação
  package.json
                            export function ThemeProvider({ children }) {
  T& tsconfig.ison
                               // Detecta o tema inicial do dispositivo
                       17
                              const colorScheme = Appearance.getColorScheme();
 ESTRUTURA DO CÓDIGO
                               // Estado para armazenar o tema (light ou dark)
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Criando o arq ThemeContext.jsx



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♠ ThemeContext.jsx U X

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                     src > context >  ThemeContext.jsx > ..
 > 🗖 .expo
                             export function ThemeProvider({ children }) {

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   _layout.tsx
   AlterarSenhaScreen.tsx
                               const [theme, setTheme] = useState(colorScheme || "light");
   CadastrarScreen.tsx
   HomeScreen.tsx
   index.tsx
                               // Alternar entre os temas
 > ia assets
                               const toggleTheme = () => {
 setTheme((prev) => (prev === "light" ? "dark" : "light"));
 > node modules
 > services
                               };
 ItemLoja.tsx

    ★ ThemeToggleBu... U

                               const themeColors = {
 light: {
    ThemeContext.jsx U
  .gitignore
                                    background: "□#FFFFFF",
  4 app.json
                                    text: "□#000000",
  package-lock.json
                                    button: " #007BFF",
  package.json
   T& tsconfig.ison
                                    buttonText: "□#FFFFFF",
                                  },
                                  dark: {
                                    background: "□#121212",
> ESTRUTURA DO CÓDIGO
                                    text: "■#FFFFFF",
> LINHA DO TEMPO
```

Criando o arq ThemeContext.jsx



```
    ★ ThemeContext.isx U X
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 > 🗖 .expo
                            export function ThemeProvider({ children }) {

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                              const themeColors = {
    _layout.tsx
                                light: {
      AlterarSenhaScree...
                       24
                                   DULLONIEXL:
                                                  -#rrrrrr ,
      CadastrarScreen.tsx
                                },
    M HomeScreen... M
                                dark: {
    index.tsx
                                   background: "\square#121212",
 > iii assets
 text: "■#FFFFFF",
   node modules
                                   button: "■#BB86FC",
 > services
                                   buttonText: " ☐ #000000",
 41
                                },
  ItemLoja.tsx U
                      42

    ★ ThemeTogg... U

  return (
     ThemeCont... U
                      45
                                 <ThemeContext.Provider value={{ theme, toggleTheme, colors: themeColors[theme] }}>
   • .gitignore
   4 app.json
                                   {children}
   package-lock.json
                                </ThemeContext.Provider>
                      47
   package.ison
                              );
   T& tsconfig.json
```

Criando o arq ThemeToggleButton.jsx FIAP



```
    ★ ThemeToggleButton.jsx U X

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✓ AULAFIREBASEAUTH
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> 🗖 .expo
                                 // src/components/ThemeToggleButton.js

✓ □ app

                                 // Botão que alterna o tema claro/escuro
     layout.tsx
                     M
     AlterarSenhaScreen.tsx
                                 import React from "react";
   CadastrarScreen.tsx
                                 import { TouchableOpacity, Text, StyleSheet } from "react-native";

₩ HomeScreen.tsx

   index.tsx
                                 import { useTheme } from "../context/ThemeContext";
> 👼 assets
export default function ThemeToggleButton() {
> node modules
                                    const { toggleTheme, colors } = useTheme();
> services
∨ ■ src
 return (
    ItemLoja.tsx
                                      <TouchableOpacity
    ThemeToggleButton.jsx U
                                        style={[styles.button, { backgroundColor: colors.button }]}
 ThemeContext.jsx
                                        onPress={toggleTheme}
  .gitignore
                                      >
  4 app.json
                                        <Text style={[styles.text, { color: colors.buttonText }]}>
  package-lock.json
                                          Alternar Tema
  package.json
                                        </Text>
                            18
  T& tsconfig.json
                                      </TouchableOpacity>
                                    );
ESTRUTURA DO CÓDIGO
LINHA DO TEMPO
                                 const styles - StyleSheet create()
```

Criando o arq ThemeToggleButton.jsx FIAP



```
♠ ThemeTogaleButton.isx U X

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                            src > components > 🛞 ThemeToggleButton.jsx > 🕥 ThemeToggleButton

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 > 🗖 .expo
                                     export default function ThemeToggleButton() {
                                         </TouchableOpacity>
                       M
      layout.tsx
                                       );
      AlterarSenhaScreen.tsx
                               21
      CadastrarScreen.tsx
      HomeScreen.tsx
                        M
                               22
     index.tsx
                        M
                                     const styles = StyleSheet.create({
  assets
                                       button: {
 paddingVertical: 12,
 > node modules
                                         paddingHorizontal: 24,
 > services
 borderRadius: 8,
  marginTop: 20,
     ItemLoja.tsx
                                       },
     ThemeToggleButton.jsx
 text: {
     ThemeContext.isx
                                         fontSize: 16,
     .gitignore
                                         fontWeight: "bold",
                               32
   4 app.json
                                       },
   package-lock.json
                                    });
   package.json
   18 tsconfig.json
```

Modificação no arq _layout.tsx



```
layout.tsx M X
 EXPLORADOR
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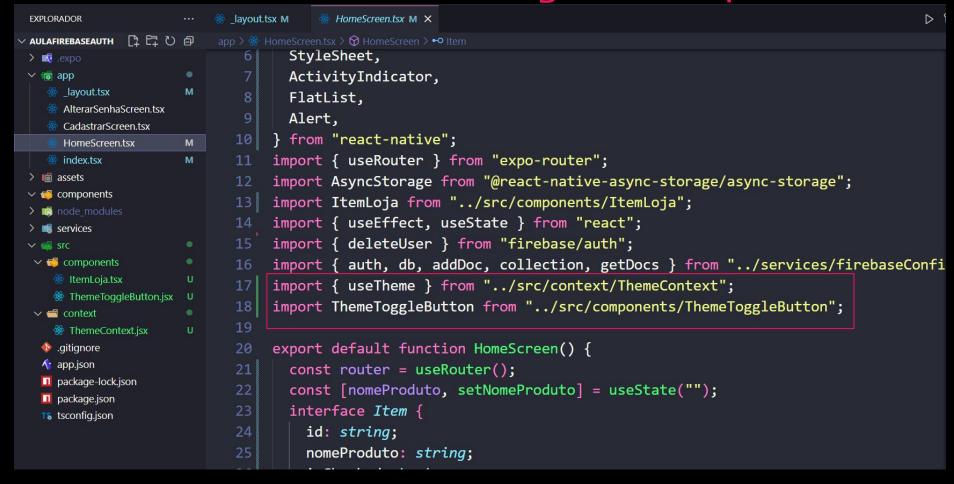
✓ AULAFIREBASEAUTH

> 🗖 .expo

✓ □ app

     _layout.tsx
                                 // ou seja, as telas vão sendo empilhadas conforme navegação.
     AlterarSenhaScreen.tsx
                                 import { Stack } from "expo-router";
     CadastrarScreen.tsx
   Marie HomeScreen.tsx
                      M
   mindex.tsx
                      M
 > magassets
import { ThemeProvider } from "../src/context/ThemeContext";
 > node modules
> services
export default function Layout() {
 return (
    ItemLoja.tsx
                                      // O ThemeProvider "envolve" toda a aplicação
    ThemeToggleButton.isx
                                      // Assim, qualquer tela terá acesso ao contexto de Tema (via useTheme)
 <ThemeProvider>
    ThemeContext.isx
  .gitignore
                            15
                                        <Stack screenOptions={{ headerShown: false }} />
  app.json
                                      </ThemeProvider>
  package-lock.json
                            17
                                    );
  package.json
  Ta tsconfig.json
                            19
```

Na HomeScreen, realizar os seguintes imports [-|/\.P



Alteração na Tela HomeScreen



```
EXPLORADOR
                     HomeScreen.tsx M X
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> 🗖 .expo
                           export default function HomeScreen() {

✓ □ app
                      98
   lavout.tsx
                             // Usa o hook useTheme() para acessar os valores do contexto de tema
    AlterarSenhaScreen.tsx
                             // Desestruturamos apenas a propriedade "theme" (que pode ser 'light' ou
   CadastrarScreen.tsx
     HomeScreen.tsx M
                             // Assim conseguimos usar esse valor para alterar estilos dinamicamente
   index.tsx
                             const { theme } = useTheme();
                     102
 > assets
 return (
    services
                                <SafeAreaView
 style={[
    ItemLoja.tsx
                                    styles.container,

☆ ThemeToggleB... U

                                     { backgroundColor: theme === "dark" ? "\square#121212" : "\square#ffffff" },
 ThemeContext.... U
  • .gitignore
                     110
  app.json
  package-lock.json
                                  <Text
  package.json
                                    style={{ fontSize: 18, fontWeight: "bold",
                     112
  To tsconfig.json
                                       margin: 10, color: theme === "dark" ? "■#fff" : "□#000" }}
                     114
                     115
                                    Seja bem-vindo, você está logado!!!
 ESTRUTURA DO CÓDIGO
                     116
                                  </Text>
> LINHA DO TEMPO
```

Alteração na Tela HomeScreen



```
HomeScreen.tsx M X
EXPLORADOR
✓ AULAFIREB... 📮 📮 ひ 🗊
                     app > ∰ HomeScreen.tsx > ❤ HomeScreen
> 🗖 .expo
                            export default function HomeScreen() {
∨ 👼 app
                      145
   layout.tsx
     AlterarSenhaScreen.tsx
                                    <TextInput
     CadastrarScreen.tsx
                      147
                                      placeholder="Digite o nome do produto"
     HomeScreen.tsx M
                                      placeholderTextColor={theme === "dark" ? "■#aaa" : "□#555"}
     index.tsx
> 🔞 assets
                      149
                                      style={[

√ 

← components

                      150
                                         styles.input,
> node modules
                      151
> services
∨ 🚮 src
                                           backgroundColor: theme === "dark" ? "□#333" : "□#f0f0f0",
 color: theme === "dark" ? " ■ #fff" : " ■ #000",
                      153
    ItemLoja.tsx

₹ ThemeToggleB... U

                                         },
 ThemeContext.... U
                                      value={nomeProduto}
  .gitignore
  4 app.json
                                      onChangeText={(value) => setNomeProduto(value)}
  package-lock.ison
                                      onSubmitEditing={salvarItem}
  package.json
  To tsconfig.json
                                  </SafeAreaView>
                               );
                      162
```

Alteração na Tela HomeScreen



```
EXPLORADOR
                       HomeScreen.tsx M X
                     app > 
HomeScreen.tsx > HomeScreen
✓ AULAFIREBASEAUTH
                             export default function HomeScreen() {

✓ male app

                                   \/ JUJEALEUV LEWY
     _layout.tsx
                       161
                                );
     AlterarSenhaScreen.tsx
                       162
     CadastrarScreen.tsx
                       163
     HomeScreen.tsx M
   mindex.tsx
                             const styles = StyleSheet.create({
> assets
                                container: {
> node modules
                                   flex: 1,
> services
                       167
                                },
∨ ■ src
                                input: {
 ItemLoja.tsx
                                  width: "90%",

♠ ThemeToggleB... U

                                   alignSelf: "center",
                       170
 marginTop: "auto",
                       171
    ThemeContext.... U
  .gitignore
                                   borderRadius: 10,
                       172
  app.json
                       173
                                   paddingLeft: 20,
  package-lock.json
                                   height: 45,
  package.json
                       174
  T& tsconfig.json
                       175
                                },
                       176
                             });
                       177
```



Alterando o esquema de cores para a tela de Login(index)



```
EXPLORADOR
                   index.tsx M X
∨ AULAFIREB... [ □ □ □ □
                   app > 🎡 index.tsx > 🕥 LoginScreen
 > 🗖 .expo
                           import { Link } from 'expo-router';
 import React, { useState, useEffect } from 'react';
   layout.tsx
                          import { View, Text, TextInput, TouchableOpacity, StyleSheet, Alert } from
     AlterarSenhaScreen.tsx
   CadastrarScreen.tsx
                          import AsyncStorage from '@react-native-async-storage/async-storage';
   HomeScreen.tsx M
                           import { useRouter } from 'expo-router';
     index.tsx
                           import { signInWithEmailAndPassword,sendPasswordResetEmail } from 'firebase/
 > magassets
 import {auth} from '../services/firebaseConfig'
 > node modules
                          import { useTheme } from "../src/context/ThemeContext";
 > services
 ∨ 륢 src
 ThemeToggleB... U

✓ 

    context

                           export default function LoginScreen() {

♠ ThemeContext.... U

                      13
  • .gitignore
                             // Desestruturamos apenas a propriedade "theme" (que pode ser 'light' ou
                      14
  app.json
  package-lock.json
                      15
                            // Assim conseguimos usar esse valor para alterar estilos dinamicamente
  package.json
                             const { theme } = useTheme();
  T& tsconfig.json
                      17
                             // Estados para armazenar os valores digitados
```



```
index.tsx M X
app > ∰ index.tsx > ♦ LoginScreen
      export default function LoginScreen() {
  81
        return (
  82
          <View style={[styles.container,</pre>
           { backgroundColor: theme === 'dark' ? '□#121212' : '□#ffffff' }]}>
  83
             <Text style={[styles.titulo,
             { color: theme === 'dark' ? '■#fff' : '□#000' }]}>Realizar login</Text>
  87
             {/* Campo Email */}
             <TextInput
  90
               style={[styles.input,
                 { backgroundColor: theme === 'dark' ? '□#1E1E1E' : '■#f0f0f0',
  91
                    color: theme === 'dark' ? ' #fff' : ' #000' }]}
  92
               placeholder="E-mail"
               placeholderTextColor + {theme === 'dark' ? '■#aaa' : '□#555'}
  94
               keyboardType="email-address"
```



```
index.tsx M X
app > ∰ index.tsx > ❤ LoginScreen
      export default function LoginScreen() {
               autoCapitalize="none"
  97
               value={email}
               onChangeText={setEmail}
  99
             />
 101
             {/* Campo Senha */}
 102
             <TextInput
 103
               style={[styles.input,
                 { backgroundColor: theme === 'dark' ? \square #1E1E1E' : \square #f0f0f0',
 104
                     color: theme === 'dark' ? ' #fff' : ' #000' }]}
 105
               placeholder="Senha"
               placeholderTextColor={theme === 'dark' ? '■#aaa' : '■#555'}
               secureTextEntry
 108
 109
               value={senha}
               onChangeText={setSenha}
 110
             />
 111
```



```
index.tsx M X
app > 🎡 index.tsx > 😭 LoginScreen
      export default function LoginScreen() {
 113
             {/* Botão */}
 114
             <TouchableOpacity style={styles.botao} onPress={handleLogin}>
               <Text style={styles.textoBotao}>Login</Text>
 115
             </TouchableOpacity>
 116
 117
             <Link href="CadastrarScreen" style={{ marginTop: 20,</pre>
                color: theme === 'dark' ? '■#00B37E' : '■#00875F',
 119
                 marginLeft: 150 }}>Cadastre-se</Link>
 120
 122
             <Text style={{ marginTop: 20,
               color: theme === 'dark' ? '■#00B37E' : '■#00875F',
 124
               marginLeft: 130 }} onPress={esqueceuSenha}>Esquece a senha</Text>
 125
           </View>
 126
 127
```



```
index.tsx M X
app > 🎡 index.tsx > 🕥 LoginScreen
       // Estilização
       const styles = StyleSheet.create({
 130
         container: {
 131
           flex: 1,
 132
 133
           justifyContent: 'center',
 134
           padding: 20,
 135
 136
         titulo: {
 137
           fontSize: 28,
           fontWeight: 'bold',
 138
 139
           color: '□#fff',
 140
           marginBottom: 30,
           textAlign: 'center',
 141
 142
         },
```



```
index.tsx M X
app > ∰ index.tsx > ❤ LoginScreen
      const styles = StyleSheet.create({
 130
 142
         },
         input: {
           backgroundColor: ' #1E1E1E',
 144
           color: ' #fff',
           borderRadius: 10,
           padding: 15,
 147
           marginBottom: 15,
 148
           fontSize: 16,
 150
           borderWidth: 1,
           borderColor: '□#333',
 151
         botao: {
           backgroundColor: '■#00B37E',
 154
 155
           padding: 15,
           borderRadius: 10,
 156
           alignItems: 'center',
 157
 158
```



```
index.tsx M X
app > ∰ index.tsx > ❤ LoginScreen
       const styles = StyleSheet.create({
 130
         botao: {
 153
           backgroundColor: '■#00B37E',
 154
 155
           padding: 15,
           borderRadius: 10,
 156
           alignItems: 'center',
 157
 158
 159
         textoBotao: {
           color: '□#fff',
 160
           fontSize: 18,
 161
           fontWeight: 'bold',
 162
 163
         },
 164
       });
 165
```



Dúvidas?