Criando o contexto - Counter

useContext RTK

src/hooks/useCounter src/slices/counter

```
import { createContext, useContext, useState, } from "react";
    const CounterContext = createContext({});
    export function CounterProvider({ children }) {
      const [count, setCount] = useState(0);
       function increment() {
        setCount((count) => count + 1);
       function decrement() {
        setCount((count) => count - 1);
       function incrementByAmount(amount) {
        setCount((count) => count + amount);
       return (
        <CounterContext.Provider
          value={{
            count,
            increment,
            decrement,
            incrementByAmount,
          { children }
        </CounterContext.Provider>
     const useCounter = () => useContext(CounterContext);
     export default useCounter;
```

```
import { createSlice } from "@reduxjs/toolkit";
     const initialState = {
     value: ₀,
     const reducers = {
     increment: (state) => {
       state.value += 1;
      decrement: (state) => {
       state.value -= 1;
      incrementByAmount: (state, action) => {
       state.value += action.payload;
     export const counterSlice = createSlice({
      name: 'counter',
      initialState,
      reducers,
     export const { increment, decrement, incrementByAmount } = counterSlice.actions;
     export default counterSlice.reducer;
```

Criando o contexto - User

useContext RTK

src/hooks/useUser src/slices/user

```
• • •
    import { createContext, useContext, useState } from 'react';
    const UserContext = createContext({});
    export function UserProvider({ children }) {
      const [name, setName] = useState('');
      const [githubUsername, setGithubUsername] = useState(null);
      const [highestCount, setHighestCount] = useState(0);
      const updateName = setName;
      const updateGithubUsername = setGithubUsername;
       function updateHighestCount(count) {
       if (count > highestCount) {
         setHighestCount(count);
       return (
        <UserContext.Provider</pre>
          value={{
            name,
            githubUsername,
            highestCount,
            updateName,
            updateGithubUsername,
            updateHighestCount,
          { children }
        </UserContext.Provider>
    const useUser = () => useContext(UserContext);
    export default useUser;
```

```
import { createSlice } from '@reduxjs/toolkit';
    const initialState = {
      name: 'Pessoa Anônima',
      githubUsername: null,
      highestCount: 0,
    const reducers = {
      updateName: (state, { payload }) => {
       state.name = payload;
      updateGithubUsername: (state, { payload }) => {
       state.githubUsername = payload;
      updateHighestCount: (state, { payload }) => {
       if (payload > state.highestCount) {
         state.highestCount = payload;
    export const userSlice = createSlice({
      name: 'user',
      initialState,
      reducers,
    export const { updateName, updateGithubUsername, updateHighestCount } = userSlice.actions;
    export default userSlice.reducer;
```

Provendo o Contexto

useContext RTK

index

import React from 'react'; import ReactDOM from 'react-dom'; import './index.css'; import App from './App'; import { UserProvider } from './hooks/useUser' import { CounterProvider } from './hooks/useCounter'; /* Nota: Context ao redor de toda a aplicação geralmente é uma má ideia. colocar cada contexto ao redor de cada grupo de componentes... */ ReactDOM.render(<React.StrictMode> <UserProvider> <CounterProvider> <App /> </CounterProvider> </UserProvider> </React.StrictMode>, document.getElementById('root')

store

```
import { configureStore } from "@reduxjs/toolkit";
import counter from './slices/counter';
import user from "./slices/user";

export const store = configureStore({
   reducer: {
      counter,
      user,
   },
},
};
```

Consumindo o Contexto - Layout

useContext RTK

src/components/Layout

src/components/Layout

```
import React from 'react';
    import useUser from '../hooks/useUser';
     function Layout({ children }) {
      const user = useUser();
      return(
          <header className="body-header">
            <h1>Contador Simprão</h1>
            <div>
              <img src={\ https://github.com/${user.githubUsername}.png`}  alt={\ Avatar for github user ${user.githubUsername}\)} />
              <section>
               <h1>0lá, <strong>{ user.name }</strong></h1>
               0 máximo que colocou o contador foi: <strong>{ user.highestCount }</strong>
              </section>
            </div>
          </header>
          { children }
          <footer>Exemplo simples de Redux Toolkit.</footer>
        </>
    export default Layout;
```

```
import React from 'react';
    import { useSelector } from 'react-redux';
    function Layout({ children }) {
     const user = useSelector((state) => state.user);
      return(
         <header className="body-header">
           <h1>Contador Simprão</h1>
           <div>
             <img src={\ https://github.com/${user.githubUsername}.png`}  alt={\ Avatar for github user ${user.githubUsername}\)} />
             <section>
               <h1>0lá, <strong>{ user.name }</strong></h1>
               o máximo que colocou o contador foi: <strong>{ user.highestCount }</strong>
             </section>
           </div>
         </header>
         { children }
         <footer>Exemplo simples de Redux Toolkit.</footer>
   export default Layout;
```

Consumindo o Contexto - App

useContext RTK

App App

```
import { useEffect, useState } from 'react';
    import useCounter from './hooks/useCounter';
    import useUser from './hooks/useUser';
    import Layout from './components/Layout';
      const { updateName, updateGithubUsername, updateHighestCount } = useUser();
      const { count, increment, decrement } = useCounter();
      const [name, setName] = useState('');
      const [githubUsername, setGithubUsername] = useState('');
      useEffect(() => {
       updateHighestCount(count);
      }, [count, updateHighestCount]);
      function handleSubmit(e) {
       e.preventDefault();
        const { id } = e.target;
         case 'name-form':
           updateName(name);
         case 'github-username-form':
           updateGithubUsername(githubUsername);
           break;
          default:
           break;
      return (
        <Layout>
         <main className="App">
           o valor atual é: <strong>{ count }</strong>
            <section className="counter-controls-section" aria-label="counter-controls">
               <button onClick={ () => increment() }>Aumentar
                <button onClick={ () => decrement() }>Diminuir
            </section>
            <section arial-label="user-controls">
             <form id="name-form" onSubmit={ handleSubmit }>
               <label htmlFor="name-update">
                Nome
                 <input
                   id="name-update"
                   type="text"
                   value={ name }
                   onChange={ ({ target }) => setName(target.value) }
                </label>
                <button type="submit">Atualizar meu nome</button>
              <form id="github-username-form" onSubmit={ handleSubmit }>
               <label htmlFor="name-update">
                 Username do GitHub
                 <input
                  id="name-update"
                   type="text"
                  value={ githubUsername }
                   onChange={ ({ target }) => setGithubUsername(target.value) }
                </label>
               <button type="submit">Atualizar meu avatar/button>
           </section>
          </main>
        </Layout>
    export default App;
```

```
import { useEffect, useState } from 'react';
    import { useSelector, useDispatch } from 'react-redux';
    import { updateHighestCount, updateName, updateGithubUsername } from './slices/user';
    import { increment, decrement } from './slices/counter';
    import Layout from './components/Layout';
     function App() {
     const count = useSelector((state) => state.counter.value);
     const dispatch = useDispatch();
     const [name, setName] = useState('');
      const [githubUsername, setGithubUsername] = useState('');
      useEffect(() => {
      dispatch(updateHighestCount(count));
     }, [dispatch, count]);
      function handleSubmit(e) {
       e.preventDefault();
        const { id } = e.target;
        switch (id) {
         case 'name-form':
           dispatch(updateName(name));
          case 'github-username-form':
          dispatch(updateGithubUsername(githubUsername));
           break;
          default:
           break;
      return (
        <Layout>
         <main className="App">
           0 valor atual é: <strong>{ count }</strong>
           <section className="counter-controls-section" aria-label="counter-controls">
              <button onClick={ () => dispatch(increment()) }>Aumentar
              <button onClick={ () => dispatch(decrement()) }>Diminuir
           </section>
           <section arial-label="user-controls">
            <form id="name-form" onSubmit={ handleSubmit }>
              <label htmlFor="name-update">
                <input
                  id="name-update"
                  type="text"
                  value={ name }
                  onChange={ ({ target }) => setName(target.value) }
              </label>
              <button type="submit">Atualizar meu nome</button>
             <form id="github-username-form" onSubmit={ handleSubmit }>
              <label htmlFor="name-update">
                Username do GitHub
                <input
                  id="name-update"
                  type="text"
                  value={ githubUsername }
                  onChange={ ({ target }) => setGithubUsername(target.value) }
              </label>
              <button type="submit">Atualizar meu avatar/button>
           </section>
          </main>
        </Layout>
    export default App;
```