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import React, { useState, useEffect, useCallback, useRef } from "react";
import { ColorModeContext, useMode } from "../theme";
import { CssBaseline, ThemeProvider } from "@mui/material";
import {
  Routes,
  Route,
  Navigate,
  useLocation,
  useNavigate,
} from "react-router-dom";
import Topbar from "../scenes/global/topbar";
import Sidebar from "../scenes/global/sidebar";
import Dashboard from "../scenes/dashboard";
import Location from "../scenes/device-location";
import HistoricalData from "../scenes/historical";
import DeviceConfig from "../scenes/device-config";
import LoginPage from "../scenes/login";

```

```

function App() {
  const [theme, colorMode] = useMode();
  const [loggedIn, setLoggedIn] = useState(false);
  const location = useLocation();
  const navigate = useNavigate();
  const inactivityTimer = useRef(null);

```

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  const handleLogout = useCallback(() => {
    localStorage.removeItem("isLoggedIn");
    setLoggedIn(false);
    navigate("/");
    clearTimeout(inactivityTimer.current);
  }, [navigate, inactivityTimer]);

```

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  const startInactivityTimer = useCallback(() => {
    clearTimeout(inactivityTimer.current);
    inactivityTimer.current = setTimeout(
      () => {
        handleLogout();
      },
      30 * 60 * 1000,
    );
  }, [handleLogout]);

```

```

  useEffect(() => {
    const isAuthenticated = localStorage.getItem("isLoggedIn");
    if (isAuthenticated === "true") {
      setLoggedIn(true);
    }
  });

```

```

    }

    const handleWindowClose = (event) => {
      if (
        !event.currentTarget.performance ||
        event.currentTarget.performance.navigation.type !== 1
      ) {
        handleLogout();
      }
    };

    window.addEventListener("beforeunload", handleWindowClose);

    return () => {
      window.removeEventListener("beforeunload", handleWindowClose);
      clearTimeout(inactivityTimer.current);
    };
  }, [loggedIn, handleLogout, startInactivityTimer]);

  useEffect(() => {
    if (loggedIn && location.pathname !== "/") {
      localStorage.setItem("lastVisitedRoute", location.pathname);
    }
  }, [loggedIn, location.pathname]);

  useEffect(() => {
    if (loggedIn && location.pathname === "/") {
      const lastVisitedRoute = localStorage.getItem("lastVisitedRoute");
      if (lastVisitedRoute) {
        navigate(lastVisitedRoute);
      } else {
        navigate("/dashboard");
      }
    }
  }, [loggedIn, location.pathname, navigate]);

  const handleLogin = () => {
    localStorage.setItem("isLoggedIn", "true");
    setLoggedIn(true);
    navigate("/dashboard");
    startInactivityTimer();
  };

  const handleUserActivity = useCallback(() => {
    clearTimeout(inactivityTimer.current);
    startInactivityTimer();
  }, []);

```

```
}, [startInactivityTimer]);
```

```
useEffect(() => {  
  document.addEventListener("mousedown", handleUserActivity);  
  document.addEventListener("keydown", handleUserActivity);  
  
  return () => {  
    document.removeEventListener("mousedown", handleUserActivity);  
    document.removeEventListener("keydown", handleUserActivity);  
  };  
}, [handleUserActivity]);
```

```
return (  
  <ColorModeContext.Provider value={colorMode}>  
    <ThemeProvider theme={theme}>  
      <CssBaseline />  
      <div className="app">  
        {loggedIn && <Sidebar onLogout={handleLogout} />}  
        <main className="content">  
          {loggedIn && <Topbar loggedIn={loggedIn} onLogout={handleLogout} />}  
          <Routes>  
            <Route  
              path="/"   
              element={(  
                loggedIn ? (  
                  <Navigate to="/dashboard" replace />  
                ) : (  
                  <LoginPage onLogin={handleLogin} />  
                )  
              )}  
            />  
            <Route  
              path="/dashboard"  
              element={loggedIn ? <Dashboard /> : <Navigate to="/" replace />}  
            />  
            <Route  
              path="/device-location"  
              element={loggedIn ? <Location /> : <Navigate to="/" replace />}  
            />  
            <Route  
              path="/device-config"  
              element={(  
                loggedIn ? <DeviceConfig /> : <Navigate to="/" replace />  
              )}  
            />  
            <Route
```

```
        path="/historical"
        element={
          loggedIn ? <HistoricalData /> : <Navigate to="/" replace />
        }
      />
    </Routes>
  </main>
</div>
</ThemeProvider>
</ColorModeContext.Provider>
);
}

export default App;
```