**React JS Login with Protected dashboard page and PHP Mysql**

React JS

https://create-react-app.dev/

Create Project

C:\react-js>npx create-react-app my-app

Run

C:\react-js\my-app> npm start

C:\react-js\my-app\src\App.js

//C:\react-js\my-app\src\App.js

import React from "react";

import { BrowserRouter, Routes, Route } from "react-router-dom";

import Protected from "./components/Protected";

import Dashboard from "./components/Dashboard";

import Login from "./components/Login";

//import './App.css';

function App() {

  return (

    <BrowserRouter>

      <Routes>

        <Route path="/" element={<Login />} />

        <Route path="/dashboard" element={<Protected Component={Dashboard} />} />

      </Routes>

    </BrowserRouter>

  );

}

export default App

Install React Router Dom  
https://www.npmjs.com/package/react-router-dom  
C:\react-js\myreactdev>npm i react-router-dom --save  
**C:\react-js\my-app\src\components\Login.js**

//C:\react-js\my-app\src\components\Login.js

import React, { useState, useEffect  } from "react";

import { useNavigate } from 'react-router-dom';

export default function Login() {

    const naviget = useNavigate();

    const [user, setUser] = useState("");

    const [pass, setPass] = useState("");

    const [error, setError] = useState("");

    const [msg, setMsg] = useState("");

    useEffect(() => {

        let login = localStorage.getItem("login");

        if(login){

            naviget("/dashboard");

        }

        let loginStatus = localStorage.getItem("loginStatus");

        if(loginStatus){

            setError(loginStatus);

            setTimeout(function(){

                localStorage.clear();

                window.location.reload();

            }, 3000);

        }

        setTimeout(function(){

            setMsg("");

        }, 5000);

    }, [msg]);

    const handleInputChange = (e, type) => {

        switch(type){

            case "user":

                setError("");

                setUser(e.target.value);

                if(e.target.value === ""){

                    setError("Username has left blank");

                }

                break;

            case "pass":

                setError("");

                setPass(e.target.value);

                if(e.target.value === ""){

                    setError("Password has left blank");

                }

                break;

            default:

        }

    }

    function loginSubmit(){

        if(user !== "" && pass != ""){

            var url = "[http://localhost/reactjs/login.php](http://localhost/devtest/reactjs/login.php)";

            var headers = {

                "Accept": "application/json",

                "Content-type": "application/json"

            };

            var Data = {

                user: user,

                pass: pass

            };

            fetch(url, {

                method: "POST",

                headers: headers,

                body: JSON.stringify(Data)

            }).then((response) => response.json())

            .then((response) => {

                console.log(response);

                if(response[0].result === "Invalid username!" || response[0].result === "Invalid password!"){

                    setError(response[0].result);

                }

                else{

                    setMsg(response[0].result);

                    setTimeout(function(){

                        localStorage.setItem("login", true);

                        localStorage.setItem('user', user);

                        naviget("/dashboard");

                    }, 5000);

                }

            }).catch((err) => {

                setError(err);

                console.log(err);

            })

        }

        else{

            setError("All field are required!")

        }

    }

    return(

        <>

        <section className="vh-100" style={{backgroundColor: '#9A616D'}}>

        <div className="container py-5 h-100">

            <div className="row d-flex justify-content-center align-items-center h-100">

            <div className="col col-xl-10">

                <div className="card" style={{borderRadius: '1rem'}}>

                <div className="row g-0">

                    <div className="col-md-6 col-lg-5 d-none d-md-block">

                    <img src="<https://images.pexels.com/photos/4348403/pexels-photo-4348403.jpeg?auto=compress&cs=tinysrgb&w=1600>" alt="login form" className="img-fluid" style={{borderRadius: '1rem 0 0 1rem'}} />

                    </div>

                    <div className="col-md-6 col-lg-7 d-flex align-items-center">

                    <div className="card-body p-4 p-lg-5 text-black">

                        <p>

                            {

                                error !== "" ?

                                <div style={{color: '#842029'}}><b>{error}</b></div> :

                                <div style={{color: '#badbcc'}}><b>{msg}</b></div>

                            }

                        </p>

                        <div className="d-flex align-items-center mb-3 pb-1">

                            <i className="fas fa-cubes fa-2x me-3" style={{color: '#ff6219'}} />

                            <span className="h1 fw-bold mb-0">Logo</span>

                        </div>

                        <h5 className="fw-normal mb-3 pb-3" style={{letterSpacing: 1}}>Sign into your account</h5>

                        <div className="form-outline mb-4">

                            <input

                                type="text"

                                id="username"

                                className="form-control form-control-lg"

                                value={user}

                                onChange={(e) => handleInputChange(e, "user")}

                            />

                            <label className="form-label" htmlFor="username">User Name</label>

                        </div>

                        <div className="form-outline mb-4">

                            <input

                                type="password"

                                id="pass"

                                className="form-control form-control-lg"

                                value={pass}

                                onChange={(e) => handleInputChange(e, "pass")}

                            />

                            <label className="form-label" htmlFor="pass">Password</label>

                        </div>

                        <div className="pt-1 mb-4">

                            <input

                                type="submit"

                                defaultValue="Login"

                                className="btn btn-dark btn-lg btn-block"

                                onClick={loginSubmit}

                            />

                        </div>

                        <a className="small text-muted" href="#!">Forgot password?</a>

                        <p className="mb-5 pb-lg-2" style={{color: '#393f81'}}>Don't have an account? <a href="#!" style={{color: '#393f81'}}>Register here</a></p>

                        <a href="#!" className="small text-muted">Terms of use.</a>

                        <a href="#!" className="small text-muted">Privacy policy</a>

                    </div>

                    </div>

                </div>

                </div>

            </div>

            </div>

        </div>

        </section>

        </>

    )

}

**C:\react-js\my-app\src\components\Dashboard.js**

//C:\react-js\my-app\src\components\Dashboard.js

import React, {  } from "react";

import { useNavigate } from 'react-router-dom';

export default function Dashboard() {

    const naviget = useNavigate();

    function logoutSubmit(){

        localStorage.setItem("login", "");

        localStorage.setItem("loginStatus", "Logged out successfully!")

        naviget("/");

    }

    const user = localStorage.getItem('user');

    return(

        <>

        <nav className="navbar navbar-expand-lg navbar-light bg-light">

        <div className="container">

          <a className="navbar-brand" href="#">Cairocoders</a>

          <button className="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

            <span className="navbar-toggler-icon" />

          </button>

          <div className="collapse navbar-collapse" id="navbarSupportedContent">

            <ul className="navbar-nav me-auto mb-2 mb-lg-0">

              <li className="nav-item">

                <a className="nav-link active" aria-current="page" href="#">Home</a>

              </li>

              <li className="nav-item">

                <a className="nav-link" href="#">Link</a>

              </li>

            </ul>

            <div className="d-flex">

              <button className="btn btn-outline-primary" type="submit" onClick={logoutSubmit}>

                Logout

              </button>

            </div>

          </div>

        </div>

        </nav>

        <div className="container" style={{paddingTop: 50}}>

            <h3>{user}</h3>

            <h3>Dashboard Page</h3>

        </div>

        </>

    )

}

**C:\react-js\my-app\src\components\Protected.js**

//C:\react-js\my-app\src\components\Protected.js

import React, { useEffect } from "react";

import { useNavigate } from "react-router-dom";

export default function Protected(props) {

    const naviget = useNavigate();

    const { Component } = props;

    useEffect(() => {

        let login = localStorage.getItem("login");

        if(!login){

            localStorage.setItem("loginStatus", "Please login to view dashboard!");

            naviget("/", {replace: true});

        }

    }, []);

    return(

        <Component />

    );

}

**react-js\my-app\public\index.html**

//react-js\my-app\public\index.html

<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="utf-8" />

    <link rel="icon" href="%PUBLIC\_URL%/favicon.ico" />

    <meta name="viewport" content="width=device-width, initial-scale=1" />

    <meta name="theme-color" content="#000000" />

    <meta

      name="description"

      content="Web site created using create-react-app"

    />

    <link rel="apple-touch-icon" href="%PUBLIC\_URL%/logo192.png" />

    <link rel="manifest" href="%PUBLIC\_URL%/manifest.json" />

    <title>React App</title>

    <link rel="stylesheet" href="<https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css>">

  </head>

  <body>

    <noscript>You need to enable JavaScript to run this app.</noscript>

    <div id="root"></div>

  </body>

</html>

Run C:\react-j\myreactdev>npm start  
<http://localhost:3000/>

**PHP Mysql** [**http://localhost/reactjs/login.php [path**](http://localhost/reactjs/login.php%5bpath) **location]**

//<http://localhost/reactjs/login.php>

<?php

    header("Access-Control-Allow-Origin: \*"); //add this CORS header to enable any domain to send HTTP requests to these endpoints:

    header("Access-Control-Allow-Methods: GET, POST");

    header("Access-Control-Allow-Headers: Content-Type");

    $conn = new mysqli("localhost", "root", "", "reactjsDB");

    if(mysqli\_connect\_error()){

        echo mysqli\_connect\_error();

        exit();

    }

    else{

        $eData = file\_get\_contents("[php://input](about:blank)");

        $dData = json\_decode($eData, true);

        $user = $dData['user'];

        $pass = $dData['pass'];

        //$password = md5($pass);

        $result = "";

        if($user != "" and $pass != ""){

            $sql = "SELECT \* FROM user WHERE user='$user';";

            $res = mysqli\_query($conn, $sql);

            if(mysqli\_num\_rows($res) != 0){

                $row = mysqli\_fetch\_array($res);

                if($pass != $row['pass']){

                    $result = "Invalid password!";

                }

                else{

                    $result = "Loggedin successfully! Redirecting...";

                }

            }

            else{

                $result = "Invalid username!";

            }

        }

        else{

            $result = "";

        }

        $conn -> close();

        $response[] = array("result" => $result);

        echo json\_encode($response);

    }

?>