Task 4-Oasis Infobyte(Login Authentication)

Code-

HTML-

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <link rel="stylesheet" href="style.css">

    <title>Login Authentication System</title>

</head>

<body>

    <h1>Login Authentication System</h1>

    <!-- Registration Form -->

    <h2>Register</h2>

    <form id="registerForm">

        <input type="text" id="regUsername" placeholder="Username" required>

        <input type="password" id="regPassword" placeholder="Password" required>

        <button type="submit">Register</button>

    </form>

    <!-- Login Form -->

    <h2>Login</h2>

    <form id="loginForm">

        <input type="text" id="loginUsername" placeholder="Username" required>

        <input type="password" id="loginPassword" placeholder="Password" required>

        <button type="submit">Login</button>

    </form>

    <!-- Secured Page -->

    <div id="securedPage" style="display: none;">

        <h2>Welcome to the Secured Page</h2>

        <button id="logoutButton">Logout</button>

    </div>

    <script src="scripts.js"></script>

</body>

</html>

CSS-

body {

    font-family: Arial, sans-serif;

    text-align: center;

    background-color: #62d4f4;

    margin: 0;

    padding: 0;

}

h1 {

    color: #333;

}

form {

    background-color: #070808;

    border: 50px solid #121212;

    padding: 20px;

    margin: 20px auto;

    max-width: 300px;

}

input[type="text"],

input[type="password"] {

    width: 100%;

    padding: 10px;

    margin: 10px 0;

    border: 1px solid #ccc;

    border-radius: 3px;

}

button {

    background-color: #007bff;

    color: #fff;

    border: none;

    padding: 10px 20px;

    cursor: pointer;

    border-radius: 3px;

}

button:hover {

    background-color: #0056b3;

}

#securedPage {

    background-color: #fff;

    border: 1px solid #ccc;

    padding: 20px;

    margin: 20px auto;

    max-width: 300px;

}

#logoutButton {

    background-color: #ff3333;

    color: #fff;

    border: none;

    padding: 10px 20px;

    cursor: pointer;

    border-radius: 3px;

}

#logoutButton:hover {

    background-color: #d20000;

}

Java Script-

// Sample user data (replace with a real database)

const users = [

    { username: "user1", password: "password1" },

    { username: "user2", password: "password2" }

];

// Elements

const registerForm = document.getElementById("registerForm");

const loginForm = document.getElementById("loginForm");

const securedPage = document.getElementById("securedPage");

const logoutButton = document.getElementById("logoutButton");

// Event listeners

registerForm.addEventListener("submit", register);

loginForm.addEventListener("submit", login);

logoutButton.addEventListener("click", logout);

// Functions

function register(e) {

    e.preventDefault();

    const regUsername = document.getElementById("regUsername").value;

    const regPassword = document.getElementById("regPassword").value;

    // Check if the username is already taken

    if (users.some(user => user.username === regUsername)) {

        alert("Username is already taken. Please choose another.");

        return;

    }

    // Add the new user to the list (you should hash the password in a real system)

    users.push({ username: regUsername, password: regPassword });

    // Clear the registration form

    registerForm.reset();

    alert("Registration successful. You can now log in.");

}

function login(e) {

    e.preventDefault();

    const loginUsername = document.getElementById("loginUsername").value;

    const loginPassword = document.getElementById("loginPassword").value;

    // Check if the username and password match any user

    const user = users.find(user => user.username === loginUsername && user.password === loginPassword);

    if (user) {

        // Hide the login form and show the secured page

        loginForm.reset();

        loginForm.style.display = "none";

        securedPage.style.display = "block";

    } else {

        alert("Invalid credentials. Please try again.");

    }

}

function logout() {

    // Clear the user's session and show the login form

    loginForm.style.display = "block";

    securedPage.style.display = "none";

}