

TASK 4: LOGIN AUTHENTICATION

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CODE:

HTML CODE:

```
<!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 CODE:

```

body {
    font-family: Arial, sans-serif;
    text-align: center;
    background-color: #414040;
    margin: 0;
    padding: 0;
}

h1 {
    color: #f8f6f6;
}

form {
    background-color: #080808;
    border: 40px solid #070707;
    padding: 20px;
    margin: 10px auto;
    max-width: 400px;
}

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;
}

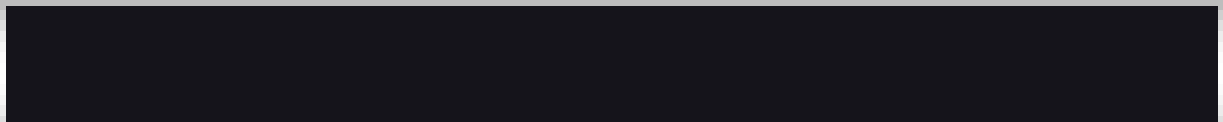
button:hover {
  background-color: #0056b3;
}

#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;
}
```

JS CODE:



```

// 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";  
}
```