**Objective: Build a Web Page with Sign-Up and Login Functionality**

**• Create a simple web interface with two sections: Sign Up and Login**

**. • Enable the user to set up a username and password through the Sign-Up form.**

**• Validate the login attempt by checking if the entered credentials match the saved ones**

**. • Redirect the user to a new page if credentials match.**

**Index.html:**

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| **<!DOCTYPE html>**  **<html lang="en">**  **<head>**  **<meta charset="UTF-8">**  **<title>Login / Sign Up</title>**  **<link rel="stylesheet" href="style.css">**  **</head>**  **<body>**  **<div class="form-container">**  **<h2 id="form-title">Login</h2>**  **<form id="main-form">**  **<input type="text" id="username" placeholder="Username" required>**  **<div class="password-container">**  **<input type="password" id="password" placeholder="Password" required>**  **<i class="eye-icon" id="eye-icon"></i>**  **</div>**  **<div class="options">**  **<label>**  **<input type="checkbox" id="save-password"> Save Password**  **</label>**  **</div>**  **<button type="submit" id="submit-btn">Login</button>**  **<p class="switch-text">**  **Don't have an account? <a href="#" id="toggle-link">Sign Up</a>**  **</p>**  **<p id="error-message" class="error"></p>**  **</form>**  **</div>**  **<script src="script.js"></script>**  **</body>**  **</html>** |

**Style.css:**

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| **body {**  **margin: 0;**  **font-family: Arial, sans-serif;**  **background-color: #f2f2f2;**  **height: 100vh;**  **display: flex;**  **justify-content: center;**  **align-items: center; }**  **.form-container {**  **background-color: white;**  **padding: 30px;**  **width: 300px;**  **border-radius: 8px;**  **box-shadow: 0 0 10px rgba(0,0,0,0.1);**  **text-align: center;}**  **h2 {**  **margin-bottom: 20px;**  **color: #333; }**  **input { width: 100%;**  **padding: 10px;**  **margin: 10px 0;**  **box-sizing: border-box;**  **border: 1px solid #ccc;**  **border-radius: 4px; }**  **.password-container {**  **position: relative; }**  **.eye-icon {**  **position: absolute;**  **right: 10px;**  **top: 50%;**  **transform: translateY(-50%);**  **cursor: pointer; }**  **button {**  **width: 100%;**  **padding: 10px;**  **background-color: #4CAF50;**  **color: white;**  **font-weight: bold;**  **border: none;**  **border-radius: 4px;**  **cursor: pointer; }**  **button:hover {**  **background-color: #45a049; }**  **.switch-text {**  **margin-top: 15px;**  **font-size: 14px; }**  **.switch-text a {**  **color: #007BFF;**  **text-decoration: none;}**  **.switch-text a:hover {**  **text-decoration: underline;}**  **.error {**  **color: red;**  **margin-top: 10px;**  **font-size: 14px; }**  **.options {**  **text-align: left;**  **margin: 10px 0;}** |

**Script.js:**

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| **const formTitle = document.getElementById("form-title");**  **const mainForm = document.getElementById("main-form");**  **const submitBtn = document.getElementById("submit-btn");**  **const toggleLink = document.getElementById("toggle-link");**  **const errorMsg = document.getElementById("error-message");**  **const eyeIcon = document.getElementById("eye-icon");**  **const passwordInput = document.getElementById("password");**  **const savePasswordCheckbox = document.getElementById("save-password");**  **let isLogin = true;**  **toggleLink.addEventListener("click", (e) => {**  **e.preventDefault();**  **isLogin = !isLogin;**  **formTitle.textContent = isLogin ? "Login" : "Sign Up";**  **submitBtn.textContent = isLogin ? "Login" : "Sign Up";**  **toggleLink.textContent = isLogin ? "Sign Up" : "Login";**  **toggleLink.parentElement.firstChild.textContent = isLogin**  **? "Don't have an account? "**  **: "Already have an account? ";**  **errorMsg.textContent = "";**  **});**  **eyeIcon.addEventListener("click", () => {**  **const type = passwordInput.type === "password" ? "text" : "password";**  **passwordInput.type = type;**  **eyeIcon.classList.toggle("eye-icon-open");**  **});**  **mainForm.addEventListener("submit", function (e) {**  **e.preventDefault();**  **const username = document.getElementById("username").value.trim();**  **const password = document.getElementById("password").value.trim();**  **if (!username || !password) {**  **errorMsg.textContent = "Both fields are required.";**  **return;}**  **if (isLogin) {**  **const savedUser = localStorage.getItem("username");**  **const savedPass = localStorage.getItem("password");**  **if (username === savedUser && password === savedPass) {**  **window.location.href = "home.html"; // redirect if success }**  **else { errorMsg.textContent = "Invalid username or password.";}}**  **else {**  **localStorage.setItem("username", username);**  **localStorage.setItem("password", password);**  **if (savePasswordCheckbox.checked) {**  **alert("Your password has been saved!");}**  **alert("Sign up successful! Please log in.");**  **toggleLink.click();**  **mainForm.reset(); }});** |

**OUTPUT:**

