Online quiz

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

<title>Quiz Login and Quiz App</title>

<style>

body {

font-family: Arial, sans-serif;

background: #eef6f9;

margin: 0;

padding: 40px;

text-align: center;

}

.container {

max-width: 500px;

margin: auto;

background: white;

padding: 20px 30px;

border-radius: 10px;

box-shadow: 0 0 10px rgba(0,0,0,0.1);

}

input[type="text"], input[type="password"] {

width: 100%;

padding: 12px 10px;

margin: 12px 0;

font-size: 16px;

box-sizing: border-box;

border-radius: 5px;

border: 1px solid #ccc;

}

button {

width: 100%;

padding: 12px;

font-size: 16px;

background: #3498db;

color: white;

border: none;

border-radius: 6px;

cursor: pointer;

margin-top: 15px;

transition: background-color 0.3s ease;

}

button:hover {

background: #2980b9;

}

label.option-label {

display: flex;

align-items: center;

font-size: 16px;

margin: 10px 0;

cursor: pointer;

text-align: left;

}

label.option-label input[type="radio"] {

margin-right: 10px;

cursor: pointer;

width: 18px;

height: 18px;

}

#loginError {

color: red;

margin-top: 10px;

}

.forgot-pass {

text-align: right;

margin-top: 8px;

font-size: 14px;

}

.forgot-pass a {

color: #3498db;

cursor: pointer;

text-decoration: none;

}

.forgot-pass a:hover {

text-decoration: underline;

}

#result {

margin-top: 15px;

font-weight: bold;

}

#summary p {

text-align: left;

margin: 8px 0;

}

#summary strong {

display: block;

margin-top: 12px;

}

.hidden {

display: none;

}

</style>

</head>

<body>

<!-- Login container -->

<div class="container" id="loginContainer">

<h1>Login</h1>

<input type="text" id="username" placeholder="Enter username" autocomplete="off" />

<input type="password" id="password" placeholder="Enter password" autocomplete="off" />

<div class="forgot-pass">

<a href="#" onclick="forgotPassword(); return false;">Forgot password?</a>

</div>

<button onclick="login()">Login</button>

<p id="loginError"></p>

</div>

<!-- Quiz container hidden initially -->

<div class="container hidden" id="quizContainer">

<h1>Quiz</h1>

<div id="question"></div>

<div id="options"></div>

<button onclick="submitAnswer()">Submit</button>

<div id="result"></div>

<div id="summary"></div>

</div>

<script>

const validUsername = "user";

const validPassword = "1234";

const quizData = [

{ question: "What does HTML stand for?", options: ["Hyper Text Markup Language", "Hyperlinks and Text Mark Language", "Home Tool Markup Language"], answer: "Hyper Text Markup Language" },

{ question: "What does CSS stand for?", options: ["Cascading Style Sheets", "Computer Style Sheets", "Creative Style System"], answer: "Cascading Style Sheets" },

{ question: "What tag is used to create a hyperlink in HTML?", options: ["<a>", "<link>", "<href>"], answer: "<a>" },

{ question: "Which HTML tag is used to display an image?", options: ["<img>", "<image>", "<pic>"], answer: "<img>" },

{ question: "Which property is used to change text color in CSS?", options: ["color", "font-color", "text-color"], answer: "color" },

{ question: "Inside which HTML element do we put the JavaScript?", options: ["<script>", "<js>", "<javascript>"], answer: "<script>" },

{ question: "How do you create a function in JavaScript?", options: ["function myFunction()", "function:myFunction()", "create function myFunction()"], answer: "function myFunction()" },

{ question: "How do you call a function named \"myFunction\"?", options: ["myFunction()", "call myFunction()", "call function myFunction()"], answer: "myFunction()" },

{ question: "How to write an IF statement in JavaScript?", options: ["if (i == 5)", "if i = 5 then", "if i == 5 then"], answer: "if (i == 5)" },

{ question: "Which symbol is used for comments in JavaScript?", options: ["//", "<!-- -->", "\*\*"], answer: "//" }

];

let current = 0;

let score = 0;

let userAnswers = [];

function escapeHTML(str) {

return str.replace(/&/g, "&amp;")

.replace(/</g, "&lt;")

.replace(/>/g, "&gt;");

}

function login() {

const username = document.getElementById("username").value.trim();

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

const errorEl = document.getElementById("loginError");

errorEl.textContent = "";

if (username === validUsername && password === validPassword) {

document.getElementById("loginContainer").classList.add("hidden");

document.getElementById("quizContainer").classList.remove("hidden");

loadQuestion();

} else {

errorEl.textContent = "Invalid credentials.";

}

}

function forgotPassword() {

const email = prompt("Enter your email to reset your password:");

if (email) {

alert(`If this email is registered, a password reset link will be sent to: ${email}`);

} else {

alert("Password reset cancelled.");

}

}

function loadQuestion() {

const q = quizData[current];

document.getElementById("question").textContent = `Q${current + 1}. ${q.question}`;

const optionsHTML = q.options.map(opt =>

`<label class="option-label"><input type="radio" name="option" value="${escapeHTML(opt)}"> ${escapeHTML(opt)}</label>`

).join('');

document.getElementById("options").innerHTML = optionsHTML;

document.getElementById("result").textContent = "";

document.getElementById("summary").innerHTML = "";

}

function submitAnswer() {

const selected = document.querySelector('input[name="option"]:checked');

if (!selected) {

alert("Please select an answer before submitting.");

return;

}

const selectedVal = selected.value;

userAnswers.push(selectedVal);

if (selectedVal === quizData[current].answer) {

score++;

}

current++;

if (current < quizData.length) {

loadQuestion();

} else {

showResults();

}

}

function showResults() {

document.getElementById("question").textContent = "Quiz Completed!";

document.getElementById("options").innerHTML = "";

document.getElementById("result").textContent = `Your Score: ${score} / ${quizData.length}`;

let summaryHTML = "<h3>Answer Summary:</h3>";

quizData.forEach((q, i) => {

const userAns = userAnswers[i];

const correct = q.answer;

summaryHTML += `<p><strong>Q${i + 1}:</strong> ${q.question}<br>

Your answer: ${escapeHTML(userAns)}<br>

Correct answer: ${escapeHTML(correct)}</p><hr>`;

});

document.getElementById("summary").innerHTML = summaryHTML;

if(score >= 8) {

const certBtn = document.createElement("button");

certBtn.textContent = "Download Certificate";

certBtn.onclick = downloadCertificate;

document.getElementById("summary").appendChild(certBtn);

}

}

function downloadCertificate() {

const certificateText = `Congratulations!\n\nYou passed the quiz with a score of ${score}/${quizData.length}.`;

const element = document.createElement('a');

const file = new Blob([certificateText], {type: 'text/plain'});

element.href = URL.createObjectURL(file);

element.download = "certificate.txt";

document.body.appendChild(element);

element.click();

element.remove();

}

</script>

</body>

</html>