<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

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

<title>8th Grade Quiz - Advanced</title>

<style>

body {

font-family: Arial, sans-serif;

background: #f0f8ff;

margin: 0;

padding: 0;

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

}

.quiz-container {

background: #ffffff;

padding: 30px;

border-radius: 10px;

box-shadow: 0 4px 8px rgba(0,0,0,0.1);

width: 90%;

max-width: 500px;

text-align: center;

}

h1 {

color: #333;

}

.question {

font-size: 20px;

margin: 20px 0;

}

.options button {

display: block;

width: 100%;

margin: 10px 0;

padding: 10px;

font-size: 16px;

border: 2px solid #007acc;

background: white;

color: #007acc;

border-radius: 5px;

cursor: pointer;

transition: all 0.3s;

}

.options button:hover {

background: #007acc;

color: white;

}

#next-btn {

margin-top: 20px;

padding: 10px 20px;

background: #28a745;

color: white;

border: none;

font-size: 16px;

cursor: pointer;

border-radius: 5px;

display: none;

}

#score, #timer {

font-size: 18px;

margin-top: 10px;

color: #2c3e50;

}

#leaderboard {

margin-top: 20px;

text-align: left;

}

#leaderboard h3 {

margin-bottom: 10px;

}

#leaderboard ol {

padding-left: 20px;

}

input[type="text"] {

padding: 8px;

margin-top: 15px;

width: 80%;

border: 1px solid #ccc;

border-radius: 5px;

}

#start-btn {

margin-top: 15px;

padding: 10px 20px;

background: #007acc;

color: white;

border: none;

font-size: 16px;

border-radius: 5px;

cursor: pointer;

}

</style>

</head>

<body>

<div class="quiz-container">

<h1>8th Grade Quiz</h1>

<div id="start-screen">

<p>Enter your name to start:</p>

<input type="text" id="username" placeholder="Your name">

<button id="start-btn">Start Quiz</button>

</div>

<div id="quiz-screen" style="display: none;">

<div id="timer">Time Left: 15s</div>

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

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

<button id="next-btn">Next</button>

</div>

<div id="score"></div>

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

<h3>🏆 Leaderboard (Top 5)</h3>

<ol id="leaders"></ol>

</div>

</div>

<script>

const questions = [

{

question: "Which part of the cell is responsible for producing energy?",

options: ["Nucleus", "Mitochondria", "Ribosomes", "Golgi body"],

answer: "Mitochondria"

},

{

question: "If x + y = 12 and x - y = 4, what is the value of x?",

options: ["4", "6", "8", "10"],

answer: "8"

},

{

question: "Which law states: For every action, there's an equal and opposite reaction?",

options: [

"Newton’s First Law",

"Newton’s Second Law",

"Newton’s Third Law",

"Law of Gravity"

],

answer: "Newton’s Third Law"

},

{

question: "A triangle has angles 2x°, 3x°, and 5x°. What is the value of x?",

options: ["12", "18", "20", "30"],

answer: "18"

},

{

question: "Which gas do plants use for photosynthesis?",

options: ["Oxygen", "Hydrogen", "Carbon Dioxide", "Nitrogen"],

answer: "Carbon Dioxide"

}

];

let currentQuestion = 0;

let score = 0;

let timer;

let timeLeft = 15;

let playerName = "";

const startBtn = document.getElementById("start-btn");

const usernameInput = document.getElementById("username");

const startScreen = document.getElementById("start-screen");

const quizScreen = document.getElementById("quiz-screen");

const questionEl = document.getElementById("question");

const optionsEl = document.getElementById("options");

const nextBtn = document.getElementById("next-btn");

const scoreEl = document.getElementById("score");

const timerEl = document.getElementById("timer");

const leaderboardEl = document.getElementById("leaderboard");

const leadersList = document.getElementById("leaders");

startBtn.onclick = () => {

playerName = usernameInput.value.trim();

if (playerName === "") {

alert("Please enter your name to start.");

return;

}

startScreen.style.display = "none";

quizScreen.style.display = "block";

showQuestion();

};

function showQuestion() {

resetTimer();

let q = questions[currentQuestion];

questionEl.textContent = q.question;

optionsEl.innerHTML = "";

nextBtn.style.display = "none";

q.options.forEach(option => {

let btn = document.createElement("button");

btn.textContent = option;

btn.onclick = () => selectOption(option);

optionsEl.appendChild(btn);

});

}

function selectOption(selected) {

stopTimer();

let correct = questions[currentQuestion].answer;

const buttons = optionsEl.querySelectorAll("button");

buttons.forEach(btn => {

btn.disabled = true;

if (btn.textContent === correct) {

btn.style.backgroundColor = "#28a745";

btn.style.color = "#fff";

} else if (btn.textContent === selected) {

btn.style.backgroundColor = "#dc3545";

btn.style.color = "#fff";

}

});

if (selected === correct) {

score++;

}

nextBtn.style.display = "inline-block";

}

nextBtn.onclick = () => {

currentQuestion++;

if (currentQuestion < questions.length) {

showQuestion();

} else {

endQuiz();

}

};

function resetTimer() {

timeLeft = 15;

timerEl.textContent = `Time Left: ${timeLeft}s`;

timer = setInterval(() => {

timeLeft--;

timerEl.textContent = `Time Left: ${timeLeft}s`;

if (timeLeft <= 0) {

stopTimer();

selectOption("Time's up"); // Force end of question

}

}, 1000);

}

function stopTimer() {

clearInterval(timer);

}

function endQuiz() {

quizScreen.style.display = "none";

scoreEl.innerHTML = `🎓 ${playerName}, you scored <strong>${score}</strong> out of <strong>${questions.length}</strong>!`;

updateLeaderboard(playerName, score);

displayLeaderboard();

}

function updateLeaderboard(name, score) {

let leaderboard = JSON.parse(localStorage.getItem("leaderboard")) || [];

leaderboard.push({ name, score });

leaderboard.sort((a, b) => b.score - a.score);

leaderboard = leaderboard.slice(0, 5);

localStorage.setItem("leaderboard", JSON.stringify(leaderboard));

}

function displayLeaderboard() {

leaderboardEl.style.display = "block";

const leaderboard = JSON.parse(localStorage.getItem("leaderboard")) || [];

leadersList.innerHTML = "";

leaderboard.forEach(entry => {

const li = document.createElement("li");

li.textContent = `${entry.name} - ${entry.score}`;

leadersList.appendChild(li);

});

}

</script>

</body>

</html>