<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Quiz Generator</title>

    <script src="https://cdn.tailwindcss.com"></script>

    <style>

        @import url('https://fonts.googleapis.com/css2?family=Inter:wght@400;600;700&display=swap');

        body {

            font-family: 'Inter', sans-serif;

            background-color: #f3f4f6;

        }

        .container {

            max-width: 900px;

            margin: auto;

            padding: 2rem;

            background-color: white;

            border-radius: 1.5rem;

            box-shadow: 0 10px 15px -3px rgba(0, 0, 0, 0.1), 0 4px 6px -2px rgba(0, 0, 0, 0.05);

        }

        .btn-primary {

            background-color: #2563eb;

            color: white;

            padding: 0.75rem 1.5rem;

            border-radius: 0.75rem;

            font-weight: 600;

            transition: background-color 0.2s;

        }

        .btn-primary:hover {

            background-color: #1d4ed8;

        }

        .input-field {

            border: 2px solid #e5e7eb;

            padding: 0.5rem 1rem;

            border-radius: 0.75rem;

            width: 100%;

            transition: border-color 0.2s;

        }

        .input-field:focus {

            outline: none;

            border-color: #2563eb;

        }

        .timer-display {

            font-size: 1.5rem;

            font-weight: 700;

            color: #1f2937;

        }

        .timer-buttons button {

            background-color: #f3f4f6;

            color: #1f2937;

            padding: 0.5rem 1rem;

            border-radius: 0.75rem;

            font-weight: 600;

            border: 2px solid #d1d5db;

        }

        .timer-buttons button:hover {

            background-color: #e5e7eb;

        }

        .timer-buttons button.active {

            background-color: #10b981;

            color: white;

            border-color: #10b981;

        }

    </style>

</head>

<body class="bg-gray-100 flex items-center justify-center min-h-screen">

<div class="container space-y-8">

    <h1 class="text-4xl font-bold text-center text-gray-800">Quiz Generator</h1>

    <!-- Quiz Creation Section -->

    <div id="quiz-editor" class="bg-gray-50 p-6 rounded-xl space-y-6">

        <h2 class="text-2xl font-bold text-gray-700">Create Your Quiz</h2>

        <div class="space-y-4">

            <div>

                <label for="quiz-title" class="block text-sm font-medium text-gray-700">Quiz Title</label>

                <input type="text" id="quiz-title" placeholder="e.g., Entrepreneurship Quiz" class="input-field mt-1">

            </div>

            <div>

                <label for="quiz-content" class="block text-sm font-medium text-gray-700">Quiz Questions & Answers</label>

                <textarea id="quiz-content" rows="10" placeholder="Paste your quiz questions here. Use a clear format like:

Q1. Question text?

A. Correct Answer

B. Incorrect Answer

C. Incorrect Answer

Q2. Second question?

A. Correct Answer" class="input-field mt-1 resize-y"></textarea>

            </div>

            <div>

                <label for="answer-key" class="block text-sm font-medium text-gray-700">Answer Key</label>

                <textarea id="answer-key" rows="3" placeholder="Paste your answer key here. Separate with commas or new lines.

e.g., 1. A, 2. B, 3. C" class="input-field mt-1 resize-y"></textarea>

            </div>

            <div class="flex justify-end">

                <button id="create-quiz-btn" class="btn-primary">Generate Quiz</button>

            </div>

        </div>

    </div>

    <!-- Timer Section -->

    <div id="timer-section" class="bg-gray-50 p-6 rounded-xl space-y-6 hidden">

        <h2 class="text-2xl font-bold text-gray-700">Quiz Timer</h2>

        <div class="flex flex-col items-center space-y-4">

            <div class="timer-buttons flex flex-wrap justify-center gap-2">

                <button data-time="300" class="rounded-lg p-2 transition-all duration-300 transform hover:scale-105">5 min</button>

                <button data-time="600" class="rounded-lg p-2 transition-all duration-300 transform hover:scale-105">10 min</button>

                <button data-time="900" class="rounded-lg p-2 transition-all duration-300 transform hover:scale-105">15 min</button>

                <button data-time="1800" class="rounded-lg p-2 transition-all duration-300 transform hover:scale-105">30 min</button>

                <button data-time="3600" class="rounded-lg p-2 transition-all duration-300 transform hover:scale-105">1 hr</button>

            </div>

            <div id="custom-timer-group" class="flex items-center space-x-2">

                <input type="number" id="custom-minutes" placeholder="Custom mins" class="input-field w-32 text-center">

                <button id="start-custom-timer-btn" class="btn-primary">Set Timer</button>

            </div>

            <div id="timer-display" class="timer-display">00:00</div>

        </div>

    </div>

    <!-- Quiz Display Section -->

    <div id="quiz-display" class="bg-gray-50 p-6 rounded-xl space-y-6 hidden">

        <h2 id="quiz-display-title" class="text-2xl font-bold text-gray-700"></h2>

        <div id="quiz-questions" class="space-y-4"></div>

        <div class="flex justify-end">

            <button id="submit-quiz-btn" class="btn-primary">Submit Quiz</button>

        </div>

        <div id="results" class="mt-6 p-4 rounded-xl bg-gray-100 hidden">

            <h3 class="text-xl font-bold text-gray-700">Quiz Results</h3>

            <p id="score-text" class="mt-2 text-lg text-gray-800"></p>

            <div id="result-details" class="mt-4 space-y-2"></div>

        </div>

    </div>

</div>

<script>

    const quizTitleInput = document.getElementById('quiz-title');

    const quizContentInput = document.getElementById('quiz-content');

    const answerKeyInput = document.getElementById('answer-key');

    const createQuizBtn = document.getElementById('create-quiz-btn');

    const quizEditor = document.getElementById('quiz-editor');

    const timerSection = document.getElementById('timer-section');

    const quizDisplay = document.getElementById('quiz-display');

    const quizDisplayTitle = document.getElementById('quiz-display-title');

    const quizQuestionsContainer = document.getElementById('quiz-questions');

    const submitQuizBtn = document.getElementById('submit-quiz-btn');

    const resultsContainer = document.getElementById('results');

    const scoreText = document.getElementById('score-text');

    const resultDetails = document.getElementById('result-details');

    const timerButtons = document.querySelectorAll('.timer-buttons button');

    const customMinutesInput = document.getElementById('custom-minutes');

    const startCustomTimerBtn = document.getElementById('start-custom-timer-btn');

    const timerDisplay = document.getElementById('timer-display');

    let quizData = {};

    let timerInterval;

    let timeRemaining = 0;

    // --- Quiz Generation Logic ---

    createQuizBtn.addEventListener('click', () => {

        const title = quizTitleInput.value;

        const content = quizContentInput.value;

        const answerKey = answerKeyInput.value;

        if (!title || !content || !answerKey) {

            alert('Please fill in all fields to generate the quiz.');

            return;

        }

        quizData = parseQuizContent(content, answerKey);

        quizEditor.classList.add('hidden');

        timerSection.classList.remove('hidden');

        quizDisplay.classList.remove('hidden');

        quizDisplayTitle.textContent = title;

        renderQuiz();

    });

    function parseQuizContent(content, key) {

        const lines = content.split('\n').filter(line => line.trim() !== '');

        const questions = [];

        let currentQuestion = null;

        lines.forEach(line => {

            if (line.match(/^Q\d+\./)) {

                if (currentQuestion) {

                    questions.push(currentQuestion);

                }

                currentQuestion = {

                    text: line.substring(line.indexOf('.') + 1).trim(),

                    options: []

                };

            } else if (line.match(/^[A-Z]\./) && currentQuestion) {

                currentQuestion.options.push({

                    text: line.substring(line.indexOf('.') + 1).trim(),

                    label: line.charAt(0)

                });

            }

        });

        if (currentQuestion) {

            questions.push(currentQuestion);

        }

        const answerKeyMap = {};

        key.split(/[,.\n]/).forEach(item => {

            const parts = item.trim().split('.');

            if (parts.length === 2) {

                const qNum = parseInt(parts[0].trim());

                const answer = parts[1].trim().toUpperCase();

                if (!isNaN(qNum) && answer.length === 1) {

                    answerKeyMap[qNum] = answer;

                }

            }

        });

        return { questions, answerKey: answerKeyMap };

    }

    function renderQuiz() {

        quizQuestionsContainer.innerHTML = '';

        quizData.questions.forEach((q, index) => {

            const questionElement = document.createElement('div');

            questionElement.classList.add('question', 'p-4', 'bg-white', 'rounded-xl', 'border-2', 'border-gray-200');

            questionElement.innerHTML = `<p class="font-semibold text-lg text-gray-800">Q${index + 1}. ${q.text}</p>`;

            const optionsList = document.createElement('div');

            optionsList.classList.add('mt-2', 'space-y-2');

            q.options.forEach(option => {

                const optionElement = document.createElement('label');

                optionElement.classList.add('block', 'p-3', 'rounded-xl', 'bg-gray-100', 'cursor-pointer', 'hover:bg-gray-200', 'transition-colors', 'duration-200', 'flex', 'items-center', 'space-x-2');

                optionElement.innerHTML = `

                    <input type="radio" name="q${index}" value="${option.label}" class="form-radio text-blue-600 h-4 w-4">

                    <span class="text-gray-700">${option.text}</span>

                `;

                optionsList.appendChild(optionElement);

            });

            questionElement.appendChild(optionsList);

            quizQuestionsContainer.appendChild(questionElement);

        });

    }

    // --- Timer Logic ---

    function startTimer() {

        if (timerInterval) clearInterval(timerInterval);

        updateTimerDisplay();

        timerInterval = setInterval(() => {

            timeRemaining--;

            updateTimerDisplay();

            if (timeRemaining <= 0) {

                clearInterval(timerInterval);

                alert('Time is up! The quiz will be submitted automatically.');

                submitQuiz();

            }

        }, 1000);

    }

    function updateTimerDisplay() {

        const minutes = Math.floor(timeRemaining / 60);

        const seconds = timeRemaining % 60;

        timerDisplay.textContent = `${String(minutes).padStart(2, '0')}:${String(seconds).padStart(2, '0')}`;

    }

    timerButtons.forEach(button => {

        button.addEventListener('click', () => {

            timerButtons.forEach(btn => btn.classList.remove('active'));

            button.classList.add('active');

            timeRemaining = parseInt(button.dataset.time, 10);

            startTimer();

        });

    });

    startCustomTimerBtn.addEventListener('click', () => {

        const minutes = parseInt(customMinutesInput.value, 10);

        if (!isNaN(minutes) && minutes > 0) {

            timerButtons.forEach(btn => btn.classList.remove('active'));

            timeRemaining = minutes \* 60;

            startTimer();

        } else {

            alert('Please enter a valid number of minutes.');

        }

    });

    // --- Quiz Submission Logic ---

    submitQuizBtn.addEventListener('click', () => {

        clearInterval(timerInterval);

        submitQuiz();

    });

    function submitQuiz() {

        let score = 0;

        let correctCount = 0;

        resultDetails.innerHTML = '';

        quizData.questions.forEach((q, index) => {

            const questionNumber = index + 1;

            const selectedAnswer = document.querySelector(`input[name="q${index}"]:checked`);

            const correctAnswer = quizData.answerKey[questionNumber];

            const resultElement = document.createElement('div');

            resultElement.classList.add('p-3', 'rounded-lg');

            const isCorrect = selectedAnswer && selectedAnswer.value === correctAnswer;

            if (isCorrect) {

                score++;

                correctCount++;

                resultElement.classList.add('bg-green-100');

                resultElement.innerHTML = `<span class="font-semibold text-green-700">Q${questionNumber}. Correct!</span> Your answer was ${selectedAnswer.value}.`;

            } else {

                resultElement.classList.add('bg-red-100');

                const userAnswer = selectedAnswer ? selectedAnswer.value : 'No answer';

                resultElement.innerHTML = `<span class="font-semibold text-red-700">Q${questionNumber}. Incorrect.</span> Your answer was ${userAnswer}. The correct answer was ${correctAnswer}.`;

            }

            resultDetails.appendChild(resultElement);

        });

        scoreText.textContent = `You scored ${correctCount} out of ${quizData.questions.length}!`;

        resultsContainer.classList.remove('hidden');

    }

</script>

</body>

</html>