Index.html

<!DOCTYPE html>

<html>

<head>

<title>JavaScript Quiz App</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

<div class="container">

<h1>Quiz App</h1>

<div id="quiz"></div>

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

<button id="submit" class="button">Submit</button>

<button id="retry" class="button hide">Retry</button>

<button id="showAnswer" class="button hide">Show Answer</button>

</div>

<script src="script.js"></script>

</body>

</html>

Script.js

const quizData = [

{

question: 'What is the capital of France?',

options: ['Paris', 'London', 'Berlin', 'Madrid'],

answer: 'Paris',

},

{

question: 'What is the largest planet in our solar system?',

options: ['Mars', 'Saturn', 'Jupiter', 'Neptune'],

answer: 'Jupiter',

},

{

question: 'Which country won the FIFA World Cup in 2018?',

options: ['Brazil', 'Germany', 'France', 'Argentina'],

answer: 'France',

},

{

question: 'What is the tallest mountain in the world?',

options: ['Mount Everest', 'K2', 'Kangchenjunga', 'Makalu'],

answer: 'Mount Everest',

},

{

question: 'Which is the largest ocean on Earth?',

options: [

'Pacific Ocean',

'Indian Ocean',

'Atlantic Ocean',

'Arctic Ocean',

],

answer: 'Pacific Ocean',

},

{

question: 'What is the chemical symbol for gold?',

options: ['Au', 'Ag', 'Cu', 'Fe'],

answer: 'Au',

},

{

question: 'Who painted the Mona Lisa?',

options: [

'Pablo Picasso',

'Vincent van Gogh',

'Leonardo da Vinci',

'Michelangelo',

],

answer: 'Leonardo da Vinci',

},

{

question: 'Which planet is known as the Red Planet?',

options: ['Mars', 'Venus', 'Mercury', 'Uranus'],

answer: 'Mars',

},

{

question: 'What is the largest species of shark?',

options: [

'Great White Shark',

'Whale Shark',

'Tiger Shark',

'Hammerhead Shark',

],

answer: 'Whale Shark',

},

{

question: 'Which animal is known as the King of the Jungle?',

options: ['Lion', 'Tiger', 'Elephant', 'Giraffe'],

answer: 'Lion',

},

];

const quizContainer = document.getElementById('quiz');

const resultContainer = document.getElementById('result');

const submitButton = document.getElementById('submit');

const retryButton = document.getElementById('retry');

const showAnswerButton = document.getElementById('showAnswer');

let currentQuestion = 0;

let score = 0;

let incorrectAnswers = [];

function shuffleArray(array) {

for (let i = array.length - 1; i > 0; i--) {

const j = Math.floor(Math.random() \* (i + 1));

[array[i], array[j]] = [array[j], array[i]];

}

}

function displayQuestion() {

const questionData = quizData[currentQuestion];

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

questionElement.className = 'question';

questionElement.innerHTML = questionData.question;

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

optionsElement.className = 'options';

const shuffledOptions = [...questionData.options];

shuffleArray(shuffledOptions);

for (let i = 0; i < shuffledOptions.length; i++) {

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

option.className = 'option';

const radio = document.createElement('input');

radio.type = 'radio';

radio.name = 'quiz';

radio.value = shuffledOptions[i];

const optionText = document.createTextNode(shuffledOptions[i]);

option.appendChild(radio);

option.appendChild(optionText);

optionsElement.appendChild(option);

}

quizContainer.innerHTML = '';

quizContainer.appendChild(questionElement);

quizContainer.appendChild(optionsElement);

}

function checkAnswer() {

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

if (selectedOption) {

const answer = selectedOption.value;

if (answer === quizData[currentQuestion].answer) {

score++;

} else {

incorrectAnswers.push({

question: quizData[currentQuestion].question,

incorrectAnswer: answer,

correctAnswer: quizData[currentQuestion].answer,

});

}

currentQuestion++;

selectedOption.checked = false;

if (currentQuestion < quizData.length) {

displayQuestion();

} else {

displayResult();

}

}

}

function displayResult() {

quizContainer.style.display = 'none';

submitButton.style.display = 'none';

retryButton.style.display = 'inline-block';

showAnswerButton.style.display = 'inline-block';

resultContainer.innerHTML = `You scored ${score} out of ${quizData.length}!`;

}

function retryQuiz() {

currentQuestion = 0;

score = 0;

incorrectAnswers = [];

quizContainer.style.display = 'block';

submitButton.style.display = 'inline-block';

retryButton.style.display = 'none';

showAnswerButton.style.display = 'none';

resultContainer.innerHTML = '';

displayQuestion();

}

function showAnswer() {

quizContainer.style.display = 'none';

submitButton.style.display = 'none';

retryButton.style.display = 'inline-block';

showAnswerButton.style.display = 'none';

let incorrectAnswersHtml = '';

for (let i = 0; i < incorrectAnswers.length; i++) {

incorrectAnswersHtml += `

<p>

<strong>Question:</strong> ${incorrectAnswers[i].question}<br>

<strong>Your Answer:</strong> ${incorrectAnswers[i].incorrectAnswer}<br>

<strong>Correct Answer:</strong> ${incorrectAnswers[i].correctAnswer}

</p>

`;

}

resultContainer.innerHTML = `

<p>You scored ${score} out of ${quizData.length}!</p>

<p>Incorrect Answers:</p>

${incorrectAnswersHtml}

`;

}

submitButton.addEventListener('click', checkAnswer);

retryButton.addEventListener('click', retryQuiz);

showAnswerButton.addEventListener('click', showAnswer);

displayQuestion();

style.css

@import url('https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;700&display=swap');

body {

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

background: #b9b3a9;

display: flex;

justify-content: center;

}

.container {

width: 450px;

padding: 20px;

margin-top: 80px;

background-color: #fff;

box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);

border-radius: 20px;

}

h1 {

text-align: center;

}

.question {

font-weight: bold;

margin-bottom: 10px;

}

.options {

margin-bottom: 20px;

}

.option {

display: block;

margin-bottom: 10px;

}

.button {

display: inline-block;

padding: 10px 20px;

background-color: #428bca;

color: #fff;

border: none;

cursor: pointer;

font-size: 16px;

border-radius: 4px;

transition: background-color 0.3s;

margin-right: 10px;

}

.button:hover {

background-color: #3071a9;

}

.result {

text-align: center;

margin-top: 20px;

font-weight: bold;

}

.hide{

display: none;

}