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JAVASCRIPT MINI PROJECT

# HTMLCODE:

<!DOCTYPE html>

<html>

<head>

<title>JavaScript Quiz App</title>

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

</head>

<body>

<div class="container">

<h1>KCE 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="javaScript.js"></script>

</body>

</html>

**CSS CODE:**

@import url('[https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;700&dis](https://fonts.googleapis.com/css2?family=Poppins%3Awght%40400%3B500%3B700&dis) play=swap');

body {

font-family: 'Poppins', sans-serif; background: #f4f3f3;

display: flex;

justify-content: center;

}

.container { width: 450px; padding:200px;

margin-top: 80px; background-color: #ffffff;

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;

**}**

# JS CODE:

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();