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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 play=swap');**

**body {**

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

**background: #f4f3f3; 63**

**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}**

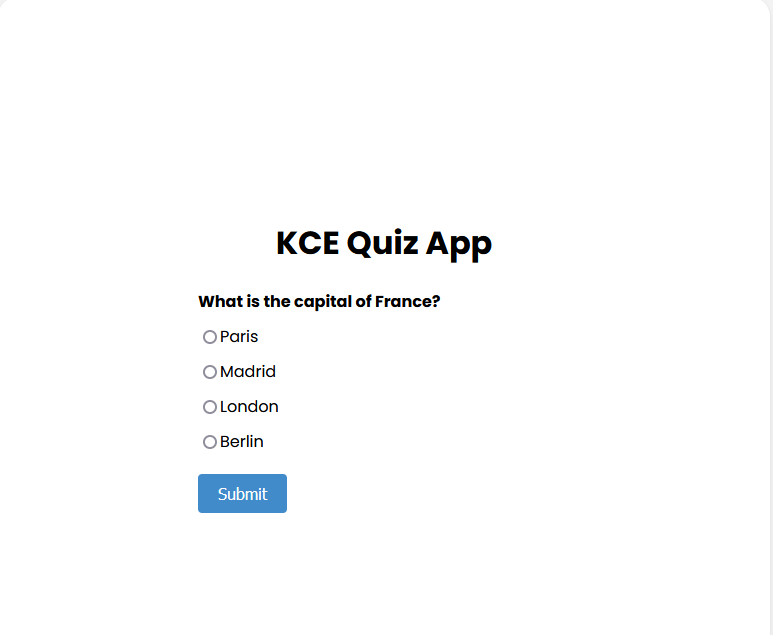
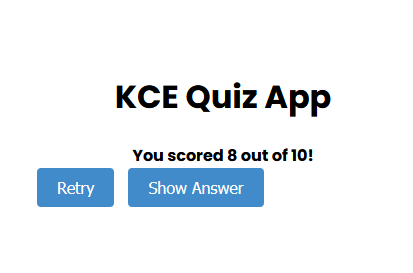
**`;**

**}**

**submitButton.addEventListener('click', checkAnswer); retryButton.addEventListener('click', retryQuiz); showAnswerButton.addEventListener('click', showAnswer);**

**displayQuestion();**

**OUTPUT:**

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Github Link:

<https://github.com/EzhilVenthanMB/717821F115-EzhilVenthanMB-FullStack-MiniProject-Week1.git>