QUIZ WEBSITE

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A quiz with multiple-choice questions. Display questions one at a time, allow users to select an answer, and show the score at the end. This project involves managing state and validating answers using JavaScript.

HTML code:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Quiz Website</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <div id="quiz-container">
    <div id="question"></div>
    <div id="choices"></div>
    <button id="next-button">Next</button>
  </div>
  <script src="script.js"></script>
</body>
</html>
```

Style.css:

```css
body {
    font-family: Arial, sans-serif;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    background-color: #f0f0f0;
}
#quiz-container {
    background: #fff;
    padding: 20px;
    border-radius: 8px;
    box-shadow: 0 0 10px rgba(0,0,0,0.1);
}
#question {
    font-size: 20px;
    margin-bottom: 10px;
}
#choices button {
    display: block;
    margin: 5px 0;
    padding: 10px;
    width: 100%;
    background-color: #007BFF;
    color: white;
    border: none;
    border-radius: 4px;
    cursor: pointer;
}
#choices button:hover {
    background-color: #0056b3;
}
```

Script.js:

```javascript
const questions = [
    { question: "What is the capital of France?", choices: ["Berlin",
"Madrid", "Paris", "Lisbon"], answer: "Paris" },
    { question: "What is the largest planet in our solar system?", choices:
["Earth", "Mars", "Jupiter", "Saturn"], answer: "Jupiter" },
    { question: "Who wrote 'Romeo and Juliet'?", choices: ["Charles Dickens",
"J.K. Rowling", "William Shakespeare", "Mark Twain"], answer: "William
Shakespeare" },
    { question: "What is the chemical symbol for water?", choices: ["O2",
"H2O", "CO2", "NaCl"], answer: "H2O" },
    { question: "What is the capital of Japan?", choices: ["Seoul", "Tokyo",
"Beijing", "Bangkok"], answer: "Tokyo" },
    { question: "Who painted the Mona Lisa?", choices: ["Vincent van Gogh",
"Pablo Picasso", "Leonardo da Vinci", "Claude Monet"], answer: "Leonardo da
Vinci" },
    { question: "What is the largest mammal?", choices: ["Elephant", "Blue
Whale", "Giraffe", "Polar Bear"], answer: "Blue Whale" },
    { question: "What is the hardest natural substance on Earth?", choices:
["Gold", "Iron", "Diamond", "Quartz"], answer: "Diamond" },
    { question: "What is the smallest unit of life?", choices: ["Atom",
"Molecule", "Cell", "Organ"], answer: "Cell" },
    { question: "Who is known as the father of computers?", choices: ["Charles
Babbage", "Alan Turing", "Bill Gates", "Steve Jobs"], answer: "Charles
Babbage" },
    { question: "What is the capital of Italy?", choices: ["Venice", "Rome",
"Milan", "Florence"], answer: "Rome" },
    { question: "What is the speed of light?", choices: ["300,000 km/s",
"150,000 km/s", "450,000 km/s", "600,000 km/s"], answer: "300,000 km/s" },
    { question: "What is the main ingredient in guacamole?", choices:
["Tomato", "Onion", "Avocado", "Lettuce"], answer: "Avocado" },
    { question: "What is the largest ocean?", choices: ["Atlantic Ocean",
"Indian Ocean", "Arctic Ocean", "Pacific Ocean"], answer: "Pacific Ocean" },
    { question: "What year did the Titanic sink?", choices: ["1905", "1912",
"1918", "1923"], answer: "1912" },
  ];
  let currentQuestionIndex = 0;

  function showQuestion() {
    const questionElement = document.getElementById('question');
    const choicesElement = document.getElementById('choices');

    const currentQuestion = questions[currentQuestionIndex];
    questionElement.textContent = currentQuestion.question;

    choicesElement.innerHTML = '';
    currentQuestion.choices.forEach(choice => {
```

```javascript
      const button = document.createElement('button');
      button.textContent = choice;
      button.onclick = () => selectAnswer(choice);
      choicesElement.appendChild(button);
    });
  }
  let score = 0;

  function selectAnswer(choice) {
    const currentQuestion = questions[currentQuestionIndex];
    if (choice === currentQuestion.answer) {
      score++;
    }
    currentQuestionIndex++;
    if (currentQuestionIndex < questions.length) {
      showQuestion();
    } else {
      showScore();
    }
  }

  function showScore() {
    const quizContainer = document.getElementById('quiz-container');
    quizContainer.innerHTML = `<h2>Your score:
${score}/${questions.length}</h2>`;
  }

  document.getElementById('next-button').onclick = showQuestion;
  showQuestion();
```