

Assessment-02

Online Simple Quiz App

Objective:

MM: 100

Design and implement a functional online quiz application where users can answer multiple-choice questions, navigate through questions, and view their results at the end. This project will test your skills in HTML, CSS, and JavaScript, along with your ability to integrate these technologies to create a fully functional web application.

<div>Online Quiz</div> <p>What is the capital of France?</p> <p><input type="radio"/> Berlin</p> <p><input type="radio"/> Madrid</p> <p><input type="radio"/> Paris</p> <p><input type="radio"/> Rome</p> <div><div>Previous</div><div>Next</div></div>	<div>Online Quiz</div> <p>Which planet is known as the Red Planet?</p> <p><input type="radio"/> Earth</p> <p><input type="radio"/> Mars</p> <p><input type="radio"/> Jupiter</p> <p><input type="radio"/> Saturn</p> <div><div>Previous</div><div>Next</div></div>	<div>Online Quiz</div> <p>What is the largest ocean on Earth?</p> <p><input type="radio"/> Atlantic</p> <p><input type="radio"/> Indian</p> <p><input checked="" type="radio"/> Arctic</p> <p><input type="radio"/> Pacific</p> <div><div>Previous</div><div>Next</div><div>Submit</div></div>
		<p>Your Score: 20%</p>

Requirements:

1. User Interface:

20 Marks

- Create a clean, intuitive, and user-friendly interface using HTML and CSS.
- The interface should include the following elements:
 - A title/header for the quiz (e.g., "MERN Stack Quiz").
 - A section to display the current question text.
 - Multiple-choice options as radio buttons for users to select.
 - A "Next" button to navigate through questions.
 - A "Submit" button that will show the final score after all questions are answered.

2. Quiz Logic and Functionality:

30 Marks

- Display one question at a time with options to select an answer.
- On clicking the "Next" button, the next question should appear.

- Ensure that when the user reaches the last question, the "Next" button becomes the "Submit" button.
- Users should be able to navigate through the questions in a sequential manner by using the "Previous" and "Next" buttons.
- After submitting the quiz, the system should display a message showing the total score out of the total possible points.
 - Each question should be worth the same number of points (e.g., 10 points per question for a 10-question quiz).
 - The total score should be based on correct answers, with incorrect answers receiving 0 points.

3. Result Display:

20 Marks

- Upon clicking the "Submit" button, display the final score along with a message indicating whether the user passed or failed based on a predefined score threshold (e.g., 70% for passing).
- The final result should display:
 - Total number of correct answers.
 - Total score achieved (out of 100).
 - A message such as "Well Done!" for scores above 70% and "Better Luck Next Time" for scores below 70%.

4. Styling:

15 Marks

- Use CSS to create a visually appealing layout for both the quiz and result pages.
- Ensure the design is responsive and works well on both desktop and mobile devices.
- Style the quiz interface to make it clear and easy to navigate, with attention to spacing, alignment, and colors.
- Style the result page to be user-friendly and visually distinct, making it easy to understand the score and result message.

5. Code Quality:

5 Marks

- Write clean, organized, and commented code.
- Ensure that your code follows best practices for web development:
 - Proper indentation and structure.
 - Meaningful variable and function names.

- No redundant or duplicate code.
- Ensure your JavaScript is separated from HTML and CSS, with clear functionality in each section.

6. Submission Guidelines:

10 Marks

- Submit your project folder containing the HTML, CSS, and JavaScript files in a **GitHub** repository named "**Assessment_Online_Quiz**".
 - Ensure that your application is fully functional and free of errors.
 - Provide a brief description of your project in the README file of the GitHub repository, including instructions on how to use the quiz and how to run it locally.
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