

# Interactive JavaScript Quiz: User Guide

## 1 Introduction

This document provides instructions for using the Interactive JavaScript Quiz, a web-based application designed to test your knowledge of JavaScript fundamentals. The quiz features a modern, responsive interface with engaging functionalities to enhance the learning experience.

## 2 Getting Started

To use the quiz, follow these steps:

1. **Access the Quiz:** Open the `index.html` file in a web browser. No internet connection is required as the quiz runs client-side.
2. **Prerequisites:** No additional software or libraries are needed. The quiz is built using vanilla HTML, CSS, and JavaScript.
3. **Optional Server:** For development, you can use a local server (e.g., **Live Server** in VS Code) to preview the quiz.

## 3 Using the Quiz

The quiz starts automatically upon loading the page. Here's how to interact with it:

- **Answer Questions:** Click on one of the four options for each question. The selected option will be highlighted with a gradient background.
- **Navigation:** Use the **Previous** button to go back to the previous question (disabled on the first question) and the **Next** button to proceed (requires an answer selection). The **Next** button changes to **Finish** on the last question.
- **Timer:** Each question has a 30-second timer, displayed in the top-right corner. If time runs out, a random answer is selected, and the quiz moves to the next question.
- **Hints:** Click the **Hint** button to reveal a helpful hint for the current question, displayed below the options.
- **Progress Tracking:** The question counter (e.g., "Question 1 of 5") and a progress bar at the top show your progress through the quiz.

## 4 Special Features

The quiz includes several features to enhance user experience:

- **Responsive Design:** The interface adapts to different screen sizes, ensuring usability on desktops, tablets, and mobile devices.
- **Visual Feedback:** Options change appearance on hover and selection, with smooth transitions and gradient effects.
- **Results Summary:** Upon completion, a detailed results page shows your score (e.g., “3/5”), a performance message based on your score, and a breakdown of each question with your answer, the correct answer, and correctness status.
- **Restart Functionality:** A **Restart Quiz** button allows you to retake the quiz from the beginning with a reset score and timer.

## 5 Customizing the Quiz

You can modify the quiz to suit your needs:

- **Quiz Content:** Edit the `quizData` array in the JavaScript code within `index.html` to change questions, options, correct answers, or hints.
- **Styling:** Modify the CSS in the `<style>` section of `index.html` to adjust colors, fonts, or layout.
- **Timer:** Change the `timeLeft` variable in the JavaScript code to adjust the time per question.

## 6 Troubleshooting

- **Quiz Not Loading:** Ensure you are opening `index.html` in a modern web browser (e.g., Chrome, Firefox, Edge).
- **Unresponsive Buttons:** The **Next** button is disabled until an answer is selected. If the timer expires, the quiz will automatically proceed.
- **Mobile Display Issues:** The quiz is optimized for mobile devices, but ensure your browser is updated for the best experience.

## 7 Contact

For questions or feedback, please refer to the project’s GitHub repository or contact the developer through the provided channels in the README file.