

Online Quiz System structure

- **HTML Code (Index):** This section lays the groundwork, defining the fundamental structure of the application.
- **CSS Code (Styles):** Responsible for enhancing the visual appeal, the CSS code ensures a visually pleasing and engaging user interface.
- **JavaScript Code (Scripts):** Serving as the brain of the operation, the JavaScript code orchestrates the intricate logic and functionality inherent in the quiz.
- **Database Simulation (Questions):** Within the "questions" file, a structured list of questions is housed, each featuring a unique ID, the question itself, the correct answer, and an array of four choices.

Here's a detailed walkthrough of the operational flow:

1. Getting Started:

- Users commence their journey on the home page, greeted by a conspicuous "Start Quiz" button (**start-btn**).
- Upon button activation, a concise yet informative guide materializes, offering users insights into what the quiz entails.

2. Guide Details:

- The guide, comprising a title (**h2**), accompanying descriptive text, and two interactive buttons:
 - Exit button (**exit-btn**): Safely wraps up the guide, returning users to the home page.
 - Continue button (**continue-btn**): Marks the end of the guide and initiates the presentation of the first quiz question.

3. Quiz Section:

- Post "Continue," the app transitions into the quiz section, unveiling crucial elements such as a title (**h1**), a score counter, a question counter, and the ever-present "Next Question" button (**next-btn**).

4. Questions Revealed:

- Questions dynamically appear one after the other in a seemingly random sequence, a result of the Fisher-Yates shuffle algorithm in action. The algorithm ensures an element of unpredictability while systematically eliminating repeated questions.

5. Answering Questions:

- Users navigate through the quiz by selecting answers. If the chosen answer is correct, pressing **next-btn** seamlessly progresses to the subsequent question. However, in the case of an incorrect response, the correct answer is spotlighted in green, signaling user readiness to advance to the next question.

6. Finishing the Quiz:

- Upon successfully navigating through all 50 questions, the app computes the user's score. This culmination is marked by the appearance of two distinct buttons:
 - "Try Again" (**tryAgain-btn**): A prompt to restart the quiz, guiding users back to the initial question.
 - "Go to Home" (**goHome-btn**): A navigational cue, directing users back to the welcoming home page.