Software Requirements Specifications

JavaScript Code Quiz Application

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1. Objective and Scope

The objective of JavaScript Code Quiz Application is to evaluate users JavaScript knowledge by giving them interactive quizzes and immediate feedback on their performance. It aims to offer the users to easily evaluate and assess their JavaScript concepts and monitor their development over time.

The scope of the product includes the following basic features:

- Attempt quizzes that consists of multiple-choice questions related to JavaScript.
- Receive immediate feedback on their quiz performance.
- View their scores and the correct answers upon completing a quiz.
- Track their quiz history and performance.
- View leader board for top performers.

2. Project End Users

The project end users of JavaScript code quiz application are quiz taker and quiz creator, administrator.

3. Functional Requirements

3.1 Quiz taking

Users can give start quiz. Each quiz consists of multiple-choice questions related to JavaScript. Users can submit their answers and receive immediate feedback on their performance.

3.2 Feedback and Scoring

Upon completing a quiz, users receive immediate feedback on their performance. Users can view their scores and the number of correct answers to the quiz questions. Scores are calculated based on the number of correct answers.

3.3 Leaderboard

Users can view a leader board showcasing top performers based on quiz scores. Leaderboard rankings are updated in real-time based on users' quiz performance.

4. Non Functional Requirements

4.1 Performance

The application should load quickly and respond to user interactions promptly. Quiz questions and options should load dynamically to minimize loading times.

4.2 Security

User sessions should be managed securely to prevent unauthorized access.

4.3 Usability

The application should have an intuitive user interface with clear navigation and instructions. Quizzes should be presented in a user-friendly format with clear instructions and option

5. Features

Quiz Selection: Users can choose from a variety of JavaScript quizzes covering different topics and difficulty levels.

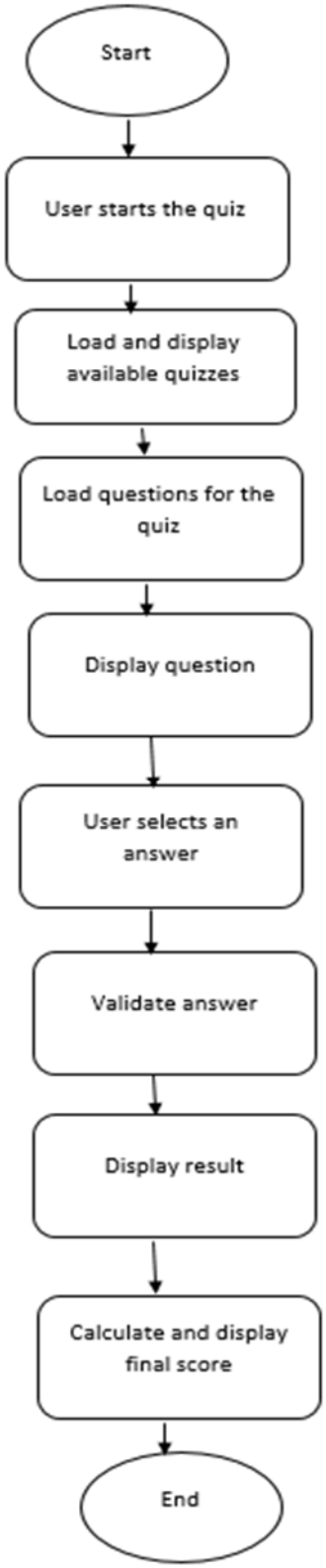
Interactive Quizzes: Engaging multiple-choice questions with immediate feedback on answers.

Feedback and Scoring: Instant feedback on quiz performance, including scores and correct answers.

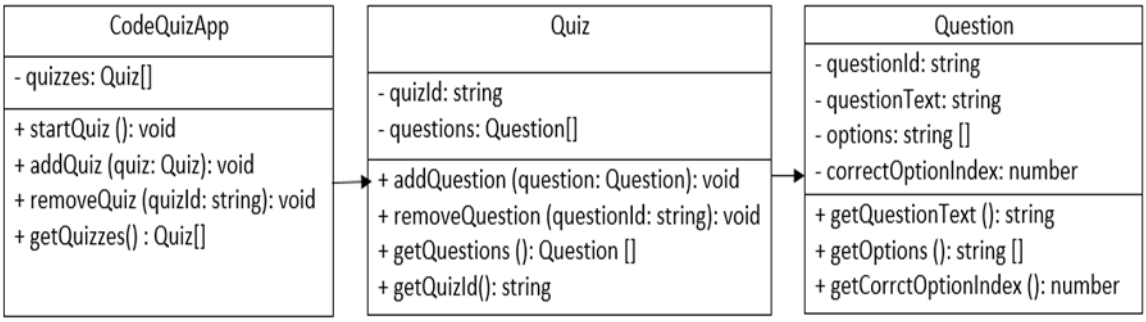
Quiz History: Ability for users to view their past quiz attempts and performance history.

Scalability: Capability to add new quizzes and questions for continuous learning and expansion of the application.

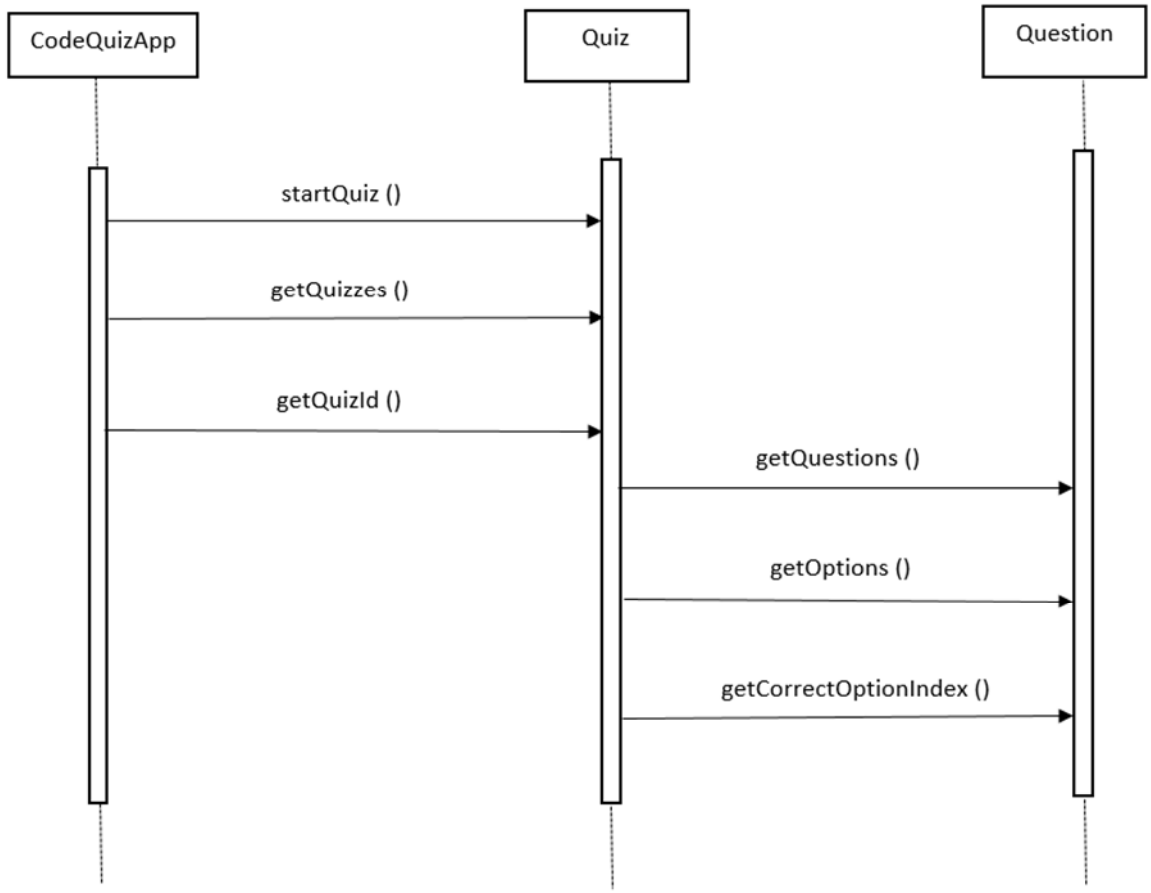
6. Flow chart


Start
User starts the quiz
Load and display available quizzes
Load questions for the quiz
Display question
User selects an answer
Validate answer
Display result
Calculate and display final score
End

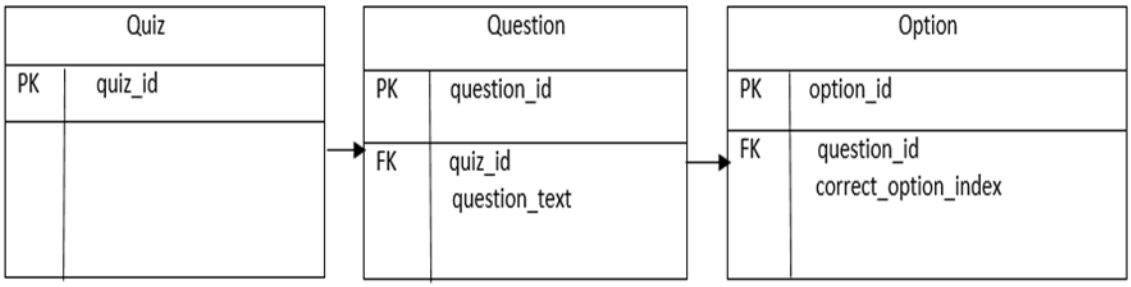
7. Class diagram



8. Sequence diagram



9. ER diagram



10. Report

This SRS provides a standard level view of the JavaScript code quiz application that includes how users attempting the quiz, can view their feedback, scoring and leader board. The next steps would include further detailing of requirements, followed by the design and implementation phases.