

Logical Design

1. Question Structure: Each question object could include the following properties:

- **id**: Unique identifier for the question.
- **questionText**: The text of the question.
- **choices**: An array of multiple-choice options.
- **correctAnswerIndex**: Index of the correct answer in the **choices** array.

Example:

```
const question = {  
  id: 1,  
  questionText: "What is the capital of France?",  
  choices: ["Berlin", "Madrid", "Paris", "Rome"],  
  correctAnswerIndex: 2  
};
```

2. User Progress: Keep track of the user's progress during the quiz. This involves maintaining variables such as:

- **currentQuestionIndex**: The index of the current question being displayed.
- **score**: The user's score.

```
let currentQuestionIndex = 0;  
let score = 0;
```

3. Shuffle Questions: Implement a function to shuffle the questions in the **questionsPool** array. This ensures a different order of questions for each quiz attempt.

```
function shuffleQuestions() {  
}
```

4. Display Questions: Create functions to display questions to the user. These functions should update the HTML to show the current question and its options.

```
function displayQuestion() {  
}
```

5. Quiz Completion: Ensure that the quiz ends when the user has answered all questions. Display the final score.

```
function endQuiz() {  
}
```



