

Company Name: CodTech IT Solutions Private Limited

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Domain Name : Frontend web development

Duration:4 weeks

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Output:

The screenshot shows a browser window with a green header bar containing icons for home, menu, save, and run, along with a 'Run' button. Below the header is a code editor window displaying the following JavaScript code:

```
<!DOCTYPE html><html><head>
<title>Quiz App</title></head><body>
<h2 id="question"></h2><div
id="options"></div><button
onclick="nextQuestion()">Next</button>
<p id="score"></p><script>let quiz = [
{ q: "HTML stands for?", a: ["Hyper
Text Markup Language", "High Text
Machine"]}, { q: "JS is used
for?", a: ["Styling", "Logic"], c: 1
}];let i = 0, score = 0;function
loadQuestion() {
  document.getElementById("question").i
nnerText = quiz[i].q;
```

Below the code editor is a large white box containing the question: "JS is used for?". Underneath the question are three buttons: "Styling", "Logic", and "Next". At the bottom left of the white box is the text "Score: 2".

Introduction

An Interactive Quiz Application is a web-based application developed using JavaScript that allows users to answer questions and get instant feedback. It helps improve learning through interactive and engaging quizzes.

Objectives

- To design an interactive quiz using JavaScript
- To provide instant feedback to users
- To calculate and display scores dynamically

Scope of the Project

This project is useful for students, trainers, and institutions to conduct quizzes online. It can be extended with more questions, timer, and database support.

Technologies Used

HTML – Structure of the application

CSS – Styling and layout

JavaScript – Logic, scoring, and interactivity

System Requirements

Hardware:

Computer or Mobile Phone

Internet Browser

Software:

Any Web Browser (Chrome, Edge, Firefox)

Code Editor (VS Code / Online Editor)

Project Description

The quiz application displays one question at a time with multiple options. When the user selects an answer, instant feedback is shown. The score is updated dynamically and the final score is displayed at the end of the quiz.

Modules

- Question Display Module
- Answer Validation Module
- Score Calculation Module
- Result Display Module
-

Advantages

- Easy to use
- Interactive learning
- Instant feedback
- Improves knowledge retention

Applications

- Online exams
- Student practice tests
- Training assessments
- Educational websites
- Future Enhancements
- Add timer for questions
- Store results using database
- User login system
- Random question generation

Conclusion

The Interactive Quiz Application successfully provides an engaging platform for users to test their knowledge. Using JavaScript, the application delivers instant feedback and dynamic scoring, making learning more effective and interactive.