



Welcome To

# Our web-technology project's documentary

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# Documentation for the Interactive Quiz Project

## Project Overview

**This interactive quiz project lets users answer multiple-choice questions with a timer for each question. Feedback is displayed immediately after each answer, and the quiz shuffles questions randomly for each attempt. The background has been customized with a beautiful galaxy image.**

## Documentation for the Interactive Quiz Project

# Features and Functionality

### 1. Start and Restart Quiz

- **Purpose:** Initializes or restarts the quiz with shuffled questions, resets the score, and displays the first question.
- **Interaction:** Users can retry the quiz after completion or failure.

```
78
79 function restartQuiz(message = "") {
80     alert(message);
81     currentQuestionIndex = 0;
82     score = 0;
83     scoreEl.textContent = `Score: ${score}`;
84     restartBtn.style.display = "none";
85     shuffledQuestions = [...questions];
86     shuffleArray(shuffledQuestions);
87     showQuestion();
88 }
89
90 restartBtn.addEventListener("click", () => restartQuiz());
```

## Features and Functionality

### 2. Shuffling Questions

- **Purpose:** Ensures a random order of questions to provide a unique experience on each attempt.

```
function shuffleArray(array) {  
  for (let i = array.length - 1; i > 0; i--) {  
    const j = Math.floor(Math.random() * (i + 1));  
    [array[i], array[j]] = [array[j], array[i]];  
  }  
}
```

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## Features and Functionality

### 3. Displaying Questions

- **Purpose:** Dynamically displays the current question and its associated answers.

```
function showQuestion() {  
  if (currentQuestionIndex >= shuffledQuestions.length) {  
    endQuiz();  
    return;  
  }  
  
  const currentQuestion = shuffledQuestions[currentQuestionIndex];  
  questionEl.textContent = currentQuestion.question;  
  answersEl.innerHTML = "";  
  
  currentQuestion.answers.forEach((answer, index) => {  
    const button = document.createElement("button");  
    button.textContent = answer;  
    button.classList.add("answer-btn");  
    button.addEventListener("click", () => checkAnswer(index));  
    answersEl.appendChild(button);  
  });  
  
  startTimer();  
}
```

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## Features and Functionality

### 4. Answer Feedback

- **Purpose:** Indicates whether the selected answer is correct or incorrect.

```
function checkAnswer(selectedIndex) {
  clearInterval(timer);

  const currentQuestion = shuffledQuestions[currentQuestionIndex];
  if (selectedIndex === currentQuestion.correct) {
    feedbackEl.textContent = "Correct!";
    feedbackEl.style.color = "green";
    score++;
    scoreEl.textContent = `Score: ${score}`;
  } else {
    feedbackEl.textContent = "Incorrect!";
    feedbackEl.style.color = "red";
  }

  currentQuestionIndex++;
  setTimeout(() => {
    feedbackEl.textContent = "";
    showQuestion();
  }, 1000);
}
```

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# Features and Functionality

### 5. Timer

- **Purpose:** Gives users 30 seconds to answer each question. If time expires, the quiz restarts with an alert message.

```
function startTimer() {  
  timeLeft = 30;  
  timerEl.textContent = `Time left: ${timeLeft} seconds`;  
  timer = setInterval(() => {  
    timeLeft--;  
    timerEl.textContent = `Time left: ${timeLeft} seconds`;  
    if (timeLeft <= 0) {  
      clearInterval(timer);  
      restartQuiz("Time's up!");  
    }  
  }, 1000);  
}
```

## Documentation for the Interactive Quiz Project

# Features and Functionality

### 6. Ending the Quiz

- **Purpose:** Concludes the quiz when all questions have been answered.

```
function endQuiz() {  
    questionEl.textContent = `Quiz completed! Your score: ${score}`;  
    answersEl.innerHTML = "";  
    feedbackEl.textContent = "";  
    restartBtn.style.display = "block";  
    clearInterval(timer);  
}
```



## Documentation for the Interactive Quiz Project

# UI Design

### 1. Background

- **Description:** The webpage background combines a galaxy image with a gradient overlay to enhance visual appeal.

```
body {  
  font-family: Arial, sans-serif;  
  text-align: center;  
  background-image: url('./galaxy.jpg'), linear-gradient(to bottom, #141e30, #243b55);  
  background-size: cover;  
  background-position: center;  
  background-blend-mode: overlay;  
  color: #fff;  
  margin: 0;  
  padding: 20px;  
}
```

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# UI Design

## 2. Quiz Container

- **Description:** The quiz container has a semi-transparent background, rounded corners, and shadow effects for a polished appearance.

```
#quiz-container {  
    max-width: 700px;  
    margin: auto;  
    background: linear-gradient(to top right, transparent 49%, #f08080 49%  
        , #f08080 51%, transparent 51%);  
    padding: 20px;  
    border-radius: 15px;  
    box-shadow: 0 0 20px linear-gradient(to top right, transparent 49%, #f08080  
        49%, #f08080 51%, transparent 51%);  
}
```

## Documentation for the Interactive Quiz Project

# UI Design

### 3. Buttons

- **Description:** Buttons are styled with smooth hover effects and are easy to interact with.

```
.answer-btn {  
  padding: 12px 25px;  
  background: #009688;  
  color: white;  
  border: none;  
  border-radius: 8px;  
  font-size: 1.1em;  
  cursor: pointer;  
  transition: background 0.3s;  
}  
  
.answer-btn:hover {  
  background: #00796b;  
}
```

## Documentation for the Interactive Quiz Project

### User Flow

- The user clicks "Start" to begin the quiz.
- Questions appear one by one, with a timer counting down from 30 seconds.
- After each answer, feedback appears immediately (either "Correct!" or "Incorrect!").
- The user completes the quiz or runs out of time.
- The "Restart" button allows the user to try again.

## Documentation for the Interactive Quiz Project

### Files and Structure

- **index.html:** Contains the structure of the page.
- **style.css:** Handles all visual aspects, including layout and design.
- **script.js:** Contains the logic for quiz flow, question shuffling, timer, and feedback.

## Documentation for the Interactive Quiz Project

### How to Use

- **Open index.html in a browser to start the quiz.**
- **Answer questions within the time limit.**
- **View feedback after each question.**
- **Click "Restart" to attempt the quiz again.**

**THANKS TO YOUR ATTENTION**