

Assignment #7: Build a Quiz App

Objective:

Develop a simple quiz web application using HTML, CSS, and JavaScript. The app should allow users to answer multiple-choice questions and get their scores at the end.

Requirements:

1. HTML Structure:

- The app should have a start screen with a "Start Quiz" button.
- There should be at least **5 multiple-choice questions**.
- Each question should have:
 - A question prompt.
 - **4 answer options** (radio buttons or clickable buttons).
- After answering all questions, display a **result screen** showing the total score and correct answers.

2. CSS Styling:

- Style the quiz app with a clean, responsive design.
- Use CSS to highlight selected answers and display feedback (right or wrong answer).
- The design should look good on both desktop and mobile devices.
- Add animations for transitions between questions (optional for bonus points).

3. JavaScript Functionality:

- Use JavaScript to:
 - Dynamically load questions and options.
 - Track user's answers and score.
 - Move to the next question after the user submits an answer.
 - Show the final score and which answers were correct/incorrect after the quiz is completed.
- Include basic input validation (ensure the user selects an answer before proceeding to the next question).
- Optionally, add a **timer** for each question (e.g., 30 seconds per question).

4. Quiz Data:

- Create a set of **questions and answers** within a JavaScript object or array.

Example:

```
const quizQuestions = [  
  {  
    question: "What is the capital of France?",  
    options: ["Berlin", "Madrid", "Paris", "Rome"],  
    correctAnswer: 2  
  },  
]
```

```
{  
  question: "Which planet is known as the Red Planet?",  
  options: ["Earth", "Mars", "Jupiter", "Venus"],  
  correctAnswer: 1  
},
```