

Project 1 Report

Quiz App

Project Overview:

A dynamic quiz application that fetches questions from a public API, providing users with interactive answer selection and immediate feedback on their choices. This app is designed for an engaging, educational experience, featuring score tracking and the potential for customized categories.

Tech Stack:

- **HTML**
- **CSS**
- **Javascript**

Key Features:

- **Dynamic Question Loading:** Fetches questions from a public API, refreshing content with each quiz session.
- **Interactive Answer Selection:** Allows users to select answers, highlighting correct and incorrect choices.
- **User Feedback:** Provides immediate feedback on selected answers, making the experience educational.
- **Score Tracking (Basic):** Tracks correct answers to provide a score at the end of the quiz.

Future Enhancements:

- **Add Timer and Score Tracking:** Introduce a countdown timer for each question to increase the challenge and keep track of the user's score to provide feedback on their performance.
- **Category and Difficulty Selection:** Allow users to select question categories and difficulty levels before starting, creating a more tailored quiz experience.

Project 2 Report

Calculator

Project Overview:

A user-friendly calculator with basic arithmetic functions, designed for clear and efficient calculations. It includes real-time display updates, and an operator display for a guided user experience, with error handling for cases like division by zero.

Tech Stack:

- **HTML**
- **CSS**
- **Javascript**

Key Features:

- **Basic Arithmetic Operations:** Supports addition, subtraction, multiplication, division, and modulo operations.
- **Real-time Display Update:** Shows results and current operations instantly, updating the display as buttons are pressed.
- **Operator Display:** Displays the selected operator next to the input to guide the user.
- **Error Handling:** Prevents division by zero and shows an error message if attempted.

Future Enhancements:

- **History and Memory Functions:** Implement a calculation history display and memory functions (M+, M-, MR) to allow users to store and recall previous results.
- **Scientific Mode:** Add an option to switch to a scientific calculator mode with advanced functions like square roots, exponents, and trigonometric operations for more versatile use.