

PROBLEM STATEMENT

School teacher is planning to conduct a quiz competition on identifying states and the capitals of our country .

Hence a school teacher needs a model through which she can conduct the model easily.

Goals: QUALITY EDUCATION

Project Briefing: State and Capitals Quiz Application

Key Features

1. Dynamic Question Loading:

- Questions and options are extracted from an external `questions.txt` file.
- Each quiz session presents 10 randomly selected questions to the user.

2. Options Handling:

- Each question displays exactly four options.
- Duplicate options are filtered out to ensure unique choices are presented.

3. User Interface:

- The quiz features a clean and centered design, with questions and options displayed prominently.
- Styling includes a border with padding around the questions and options, larger and bold font for questions, and a background color to enhance readability.

4. Quiz Flow:

- Users start the quiz by clicking a "Start Quiz" button.
- After selecting an answer, the correct answer is highlighted in green, while incorrect answers are marked in red.
- A "Next" button appears after each question, allowing users to proceed to the next question.
- The quiz includes a timer to record the time spent on each question.

5. Scoring and Feedback:

- The application tracks and displays the user's score in real-time.
- At the end of the quiz, a "Congratulations" message is displayed with the final score.

6. CSS Styling:

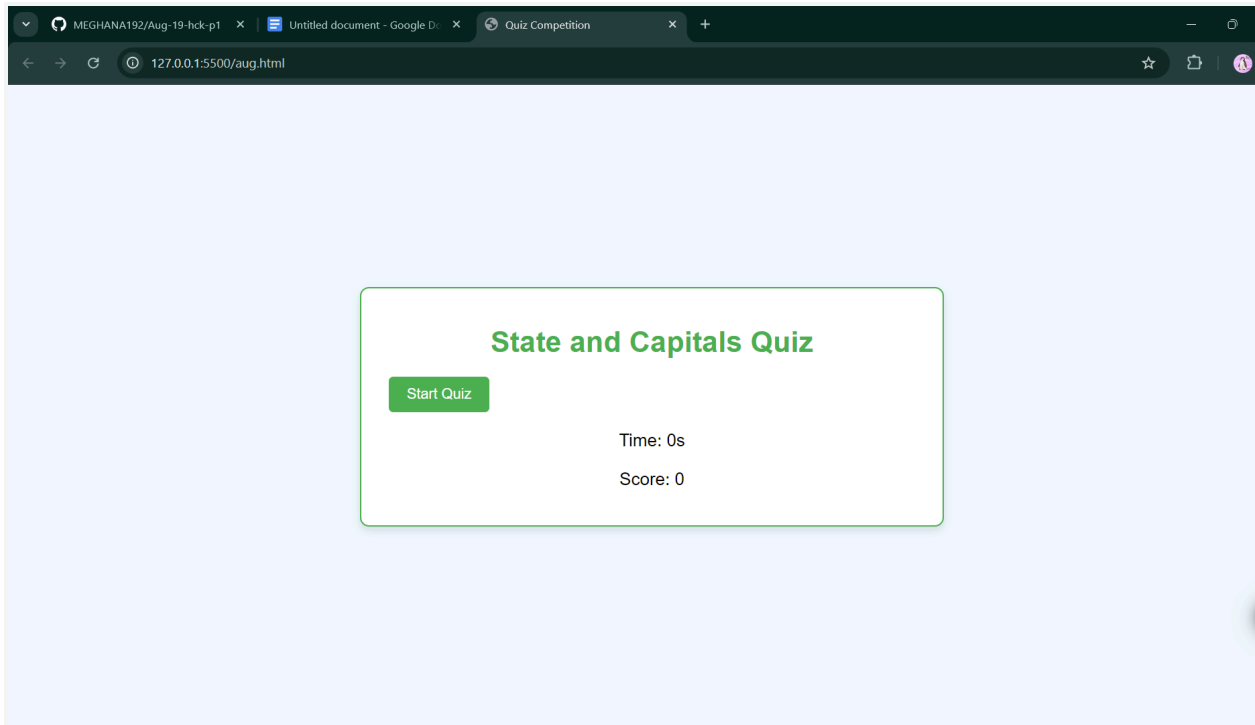
- The application's CSS enhances visual appeal with a centered layout, appropriate padding, and responsive design.
- Options are styled to be interactive and user-friendly, with hover effects and distinct feedback for selected answers.

Technical Implementation

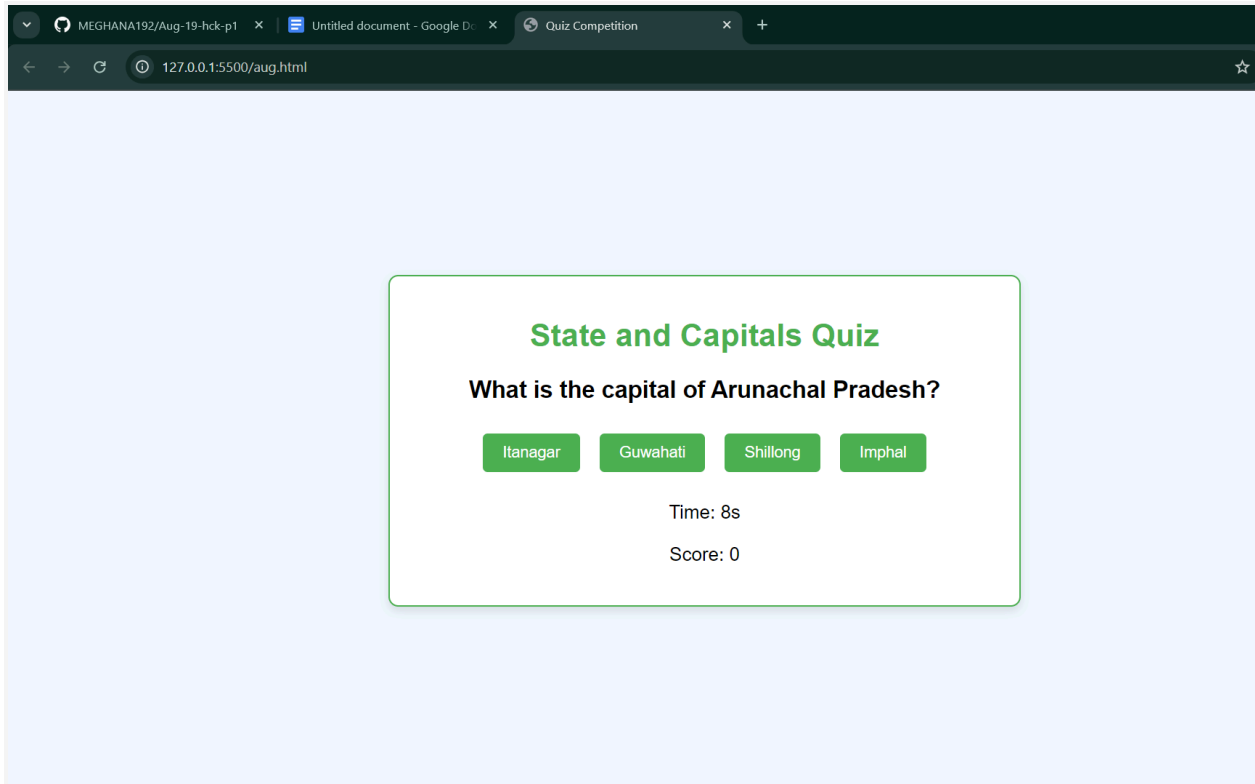
- **HTML:** Provides the structure for the quiz, including buttons for starting the quiz, navigating questions, and displaying the final score.
- **CSS:** Styles the quiz container, questions, and options to ensure a user-friendly interface and visually appealing design.
- **JavaScript:** Handles the logic for loading questions, displaying options, managing user interactions, and calculating scores. It also manages the timer and transitions between questions.

This project demonstrates the use of web technologies (HTML, CSS, and JavaScript) to create an engaging educational tool that effectively assesses users' knowledge and provides immediate feedback.

SCREENSHOTS:



Display of question



After selecting the answer

State and Capitals Quiz

What is the capital of Arunachal Pradesh?

Itanagar

Guwahati

Shillong

Imphal

Next

Time: 44s

Score: 0

Endresult

State and Capitals Quiz

Time: 1s

Score: 4

Congratulations! Your score is 4 out of 10

