ISA WINTER INTERNSHIP - WEB DEVELOPMENT
TASK 4 Topic Proposal

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Topic Chosen: Quiz App

Tech stack: HTML,CSS,JS,NODE,SQL.

Basic introduction of the topic: A website designed for users to explore and test their knowledge across various topics. Whether you're passionate about science, technology, literature, or current affairs, our website offers an engaging and interactive way to challenge yourself and learn something new. With quizzes tailored for all knowledge levels, this platform makes learning both fun and competitive. Dive in, compete with friends, and discover how much you really know!

List of features:

Dynamic Quiz Creation: Users can select the number of questions, category, difficulty level, and time per question.
Interactive Quiz Interface: Displays questions and options in an intuitive layout, allowing easy answer selection.
Real-Time Timer: Ensures users stay within the time limit for each question.
Score Calculation: Automatically calculates and displays the user's score at the end of the quiz.
Restart and New Quiz Options: Allows users to restart the current quiz or begin a new one without refreshing the page.

List of individual pages and short description of each:
Home Page: Provides an introduction to the quiz platform and a "Start Quiz" button to navigate to the quiz settings page.
Quiz Settings Page: Allows users to configure quiz parameters such as the number of questions, category, difficulty level, and timer.
Quiz Page: Displays the quiz questions and options, manages user interactions, and tracks time for each question.

Result Page: Shows the user's score, along with options to restart the quiz or create a new quiz.

Database schema:

```sql
CREATE TABLE mcq (
    quest_no INT PRIMARY KEY,
    question VARCHAR(255) NOT NULL,
    option1 VARCHAR(100),
    option2 VARCHAR(100),
    option3 VARCHAR(100),
    option4 VARCHAR(100),
    correct_answer VARCHAR(100) NOT NULL,
    difficulty VARCHAR(50),
    category INT
);
```

Timeline: 20 days appx.