

Build a basic adaptive quiz system

The system will include Admin Panel for creating quizzes and user panel for participating in quiz.

As an admin I should be able to create a unique link of quiz and add random 10 questions of following types

- Multiple choice with single correct answer (Four choices and one correct answer)
- Multiple choice with multiple correct answer (Four choices and more than one correct answer)

Rules for Quiz

- Each question should have a difficulty defined between 1-10
- The quiz starts for everyone with difficulty 5
- For every correct answer the next question should be current level + 1 difficulty (Since we have only 10 questions, questions will be repeated and its ok)
- For every incorrect answer the next question should be current level - 1 difficulty (Since we have only 10 questions, questions will be repeated and its ok)

The quiz ends for a user

- when they answer a difficulty 10 question correctly
- or when they answer a difficulty 1 question incorrectly
- or when all 10 questions are exhausted.

As a user I should be able to sign up with my email

- Visit the created unique link for quiz and answer questions
- On the UI I should be able to see the difficulty level along with the question on each step.
- On finally completing the quiz as I user I should be able to see my final score(+5 for every correct answer and -2 for every wrong answer) and a line graph of my score against each attempt. Plot this on line graph using d3js (So, when I start my score is 0 and attempt is 0. if I answer first question correctly my attempt count will be 1 and score will be 5 and so on)

Use **Node (NestJS)** to create APIs and **React (NextJS)** to write the front end. Use **Mongo DB (Atlas)** for database. All routes should be auth protected (Use JWT)

Submission Guidelines

- Share the repository link for UI and API with build steps explained in `README.md`
- 5 days to complete the **assignment**
- Bonus for fully responsive system (Feel free to use Tailwind or Bootstrap)
- Bonus for deployed version of working system
- Share a schema diagram for the database design
- Share POSTMAN collection for all APIs

ALL THE VERY BEST!"