

Quiz Backend Update Summary

Summary of Completed Tasks:

1. Updated MongoDB Schema:

- Added new fields to the quiz schema:
 - difficulty (e.g., easy, medium, hard)
 - topicTags (array of strings to categorize quiz topics)
 - timeTaken (numeric or duration value representing how long the quiz took)

2. Modified API Endpoints:

- Updated quiz-related API routes to accept and send the new quiz metadata fields.
- Ensured that when quiz data is fetched, the frontend receives the updated metadata (difficulty, topicTags, timeTaken).

3. Tested API with Postman:

- Used Postman to test creating quizzes with new metadata included.
- Verified retrieving quizzes returns the new metadata correctly.
- Confirmed error handling when invalid metadata is sent.

4. Implemented Backend Validation:

- Added validation to ensure difficulty is valid (easy, medium, hard).
- Validated topicTags is an array of strings.
- Confirmed timeTaken is a non-negative number.
- Returned errors if validation fails to prevent bad data.

This update improves quiz management by enriching metadata, enhancing API communication, and securing data integrity.