Quiz Project

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Objective: The objective of this project is to create a backend quiz application that allows users to take quizzes and track their progress. The application will allow professors to create and manage quizzes, and students to take and submit answers to the quizzes.

Scope:

User authentication and authorization: Users will be able to register(be created). Professors will be able to create and manage quizzes. Students will be able to take quizzes and view their scores and progress.

Quiz creation and management: Professors will be able to create quizzes with questions. They will also be able to edit, delete, and view the results of quizzes.

Quiz taking: Students will be able to take quizzes, submit answers, and view their scores and progress.

Leaderboard: A leaderboard will be created to display the top-performing students in a particular class or group of students.

Security: The application will be built with security in mind, and will include measures to prevent unauthorized access to create, edit and delete questions.

User interface: The application will have a user-friendly interface that is easy to navigate.

Deliverables:
- *User documentation*
- *Technical documentation*

Technologies:
- Spring Boot
    - Dependency:
        - implementation 'org.springframework.boot:spring-boot-starter-data-jpa'
        - implementation 'org.springframework.boot:spring-boot-starter-web'
        - testImplementation 'junit:junit:4.13.1'
        - runtimeOnly 'com.mysql:mysql-connector-j'
        - testImplementation 'org.springframework.boot:spring-boot-starter-test'
- Java
- MySQL
- Insomnia

Timeline:

- Project planning and requirements gathering: 1 week
- Development: 3-4 weeks
- Testing and debugging: 1 week
- User and technical documentation: 1 week