**Project Documentation: Spring Quiz Web Application**

Introduction

This project is focused on developing a robust full-stack web application that enables users to participate in a Spring Quiz. The application implements a secure credential verification system using a username and password. Upon successful authentication, users gain access to the quiz interface. The quiz questions, corresponding answers, and user scores are stored in a MySQL database. Interaction with the API is facilitated through a well-designed web client built using Thymeleaf.

Key Features

1. **User Authentication:**
   * The application ensures security by verifying user credentials (username and password) before granting access to the quiz.
2. **Data Storage:**
   * Quiz questions, answers, and user scores are stored in a MySQL database, ensuring data persistence and easy retrieval.
3. **Web Client:**
   * The web client is built using Thymeleaf, providing a seamless and interactive user interface.
4. **Development Tools:**
   * Development is carried out using IntelliJ IDEA, VS Code, and MySQL for database management.
5. **Dependencies:**
   * The project utilizes key dependencies, including Spring Web, Thymeleaf, Validation, Lombok, and MySQL, to enhance functionality and maintain code quality.

Project Organization

To ensure efficient development and timely completion, the team has been assigned specific project tasks. Each team member is responsible for a particular aspect of the application, contributing to the overall success of the project.

Technology Stack

* **Integrated Development Environments (IDEs):**
  + IntelliJ IDEA
  + VS Code
* **Database Management:**
  + MySQL
* **Frontend:**
  + Thymeleaf
* **Dependencies:**
  + Spring Web
  + Thymeleaf
  + Validation
  + Lombok
  + MySQL Connector

Conclusion

By leveraging the strengths of the Spring framework, Thymeleaf, and a MySQL database, our team has successfully developed a secure and feature-rich Spring Quiz Web Application. The careful organization of tasks and the use of reliable development tools have contributed to the project's timely completion.