

Online Quiz Portal Using REST APIs

Problem Statement:

- To create an online quiz portal with multiple REST APIs where users can browse different quizzes, attempt them, and find their scores and standings.
- This project, which aims to create an online quiz application, is based on different REST APIs through which users can log in and take quizzes.
- After finishing the quiz, they can find their standing and scores based on their accurate responses.
- There are two types of users on this quiz portal.
 - ✓ Admin user
 - ✓ Participants

Developer details:

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GitHub Link:

https://github.com/PradeepaSaravanan/Java_Phase2/tree/master/Phase3/EndProject/OnlineQuizPortal

Sprints Planned and the tasks achieved:

This project is completed in three sprints:

Sprint 1:

- Project Planning.
- Find the flow of the application.

- Arrange the necessary requirements such as tools and compatible workspace.

Sprint 2:

- Create all the project files and map the beans with the controller.
- Make the code ready to run with user input.
- Manipulate with user inputs.

Sprint 3:

- Feasibility report.
- Specification Document
- Creating Git repository to track changes as development progress in future.
- The project requirements are completed using Java , MySql, hibernate, REST api.
- Source code
- Pushing Code to github repository

Algorithm:

1. Start the application
2. Set the database configuration to access the database and doing necessary operations.
3. Set the admin in the admin database so that admin can able to login and do the necessary updates.
4. Admin can able to update their own security information like username and password after login.

5. After login into the portal, admin can add various quizzes and questions and update questions with the quizzes.
6. Participants can able to attend the quizzes and get their scores and to participate quiz, participants should be registered.
7. Registered participants can login and can participate.
8. Available quizzes are displayed to the participants and the participants select the quiz as they wanted and complete the quiz.
9. After submitting the quiz, participants can able to view the scores.
10. Admin can also the track the participants information such as whom and how many attend by the participants, whom are registered, scores of each participants etc.,.
- 11.To run the application, need to follow the steps.
- 12.Run the program which contains application file as Java application.
13. Open Postman and hit the url as per the mapping.
- 14.Results is displayed.
- 15.End

Tools used:

- Eclipse Enterprise java edition
- Postman
- MySql

Core Concepts used:

- RESTful Web services
- Spring Boot
- JPA
- Servlets
- Spring MVC

