
System Requirements Specification Index

For

Quiz Application

Version 1.0

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1 BUSINESS-REQUIREMENT:

1.1 PROBLEM STATEMENT:

The purpose of this application is to allow someone to take the quiz.

1.1.1 Quiz Application:

The Quiz Application allows you to:

1. Access the home page to start the quiz or see the scoreboard..
2. Should be able to add the name and start a quiz.
3. Should display a list of questions with options.
4. Should show the list of participants after submitting the quiz.
5. Should show a scoreboard with a list of participant names and their score.

2. TEMPLATE CODE STRUCTURE:

2.1 QUIZAPP CONTROLLER

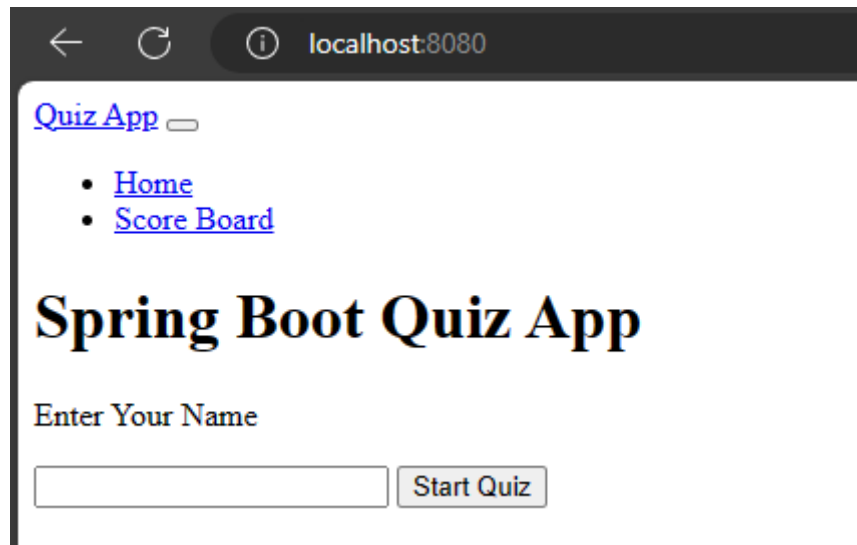
Method Exposed	Purpose
home()	Should return page "index" with required data.
quiz()	Should return page "quiz" with required data.
submit()	Should return page "result" after submitting quiz.
score()	Should return "scoreboard" page with all scores.

3. RESOURCES AVAILABLE:

Description	View Pages Name	Remarks
Common UI		
Home Page	index	Contains a homepage which shows the option to show the scoreboard and start the quiz by adding the participant name.
Score	scoreboard	
Submit	result	
quiz	quiz	

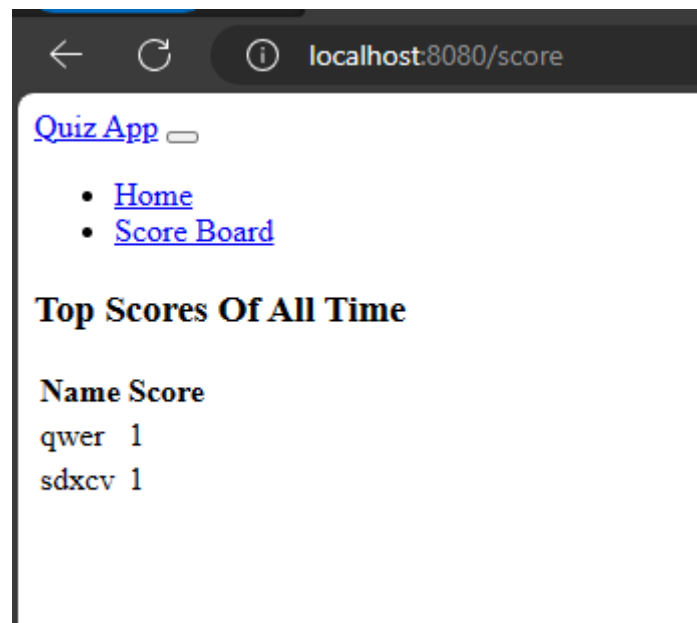
3 SUGGESTED WIREFRAMES:

1. Homepage – Visitor Landing Page



A screenshot of a web browser showing the homepage of a 'Quiz App' at localhost:8080. The browser's address bar shows 'localhost:8080'. The page has a dark header with navigation links: 'Quiz App' (with a dropdown arrow) and a list containing 'Home' and 'Score Board'. The main content area features the title 'Spring Boot Quiz App' in a large, bold, serif font. Below the title is a form with the label 'Enter Your Name', a text input field, and a 'Start Quiz' button.

2. Scoreboard



A screenshot of a web browser showing the scoreboard of the 'Quiz App' at localhost:8080/score. The browser's address bar shows 'localhost:8080/score'. The page has a dark header with navigation links: 'Quiz App' (with a dropdown arrow) and a list containing 'Home' and 'Score Board'. The main content area features the title 'Top Scores Of All Time' in a bold, serif font. Below the title is a table with the header 'Name Score' and two rows of data: 'qwer 1' and 'sdxcv 1'.

Name	Score
qwer	1
sdxcv	1

3. Quiz

[←](#) [↻](#) [i](#) localhost:8080/quiz

Quiz App

- [Home](#)
- [Score Board](#)

Only Select The Correct Answers

The value of a string variable can be surrounded by single quotes.

- ☐ True
- ☐ False
- ☐ Maybe

How do you create a variable with the numeric value 5?

- ☐ num x = 5
- ☐ float x = 5
- ☐ int x = 5

Which operator is used to add together two values?

- ☐ (&&)
- ☐ .add()
- ☐ (+)

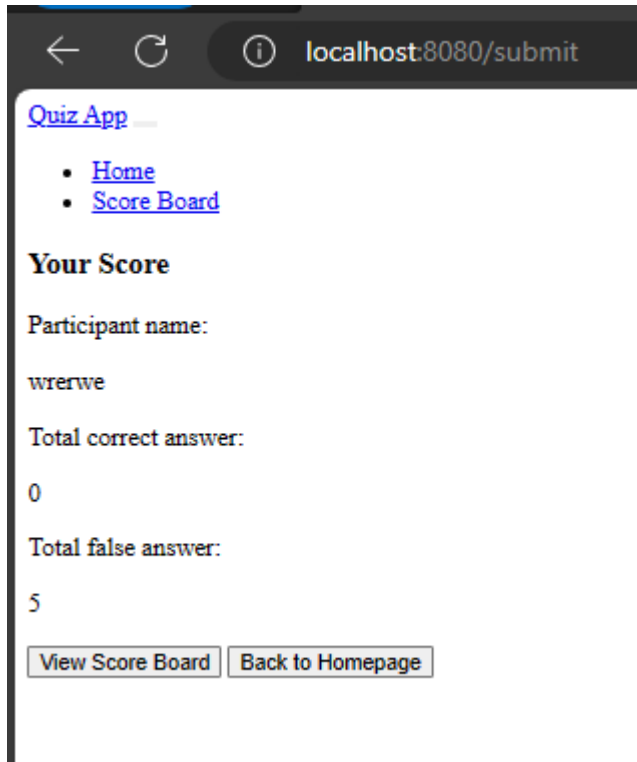
How do you create a variable with the floating number 2.8?

- ☐ num x = 2.8
- ☐ float x = 2.8
- ☐ int x = 2.8

Which method can be used to find the length of a string?

- ☐ getSize()
- ☐ length()
- ☐ size()

4. Result



4 BUSINESS VALIDATIONS

1. Question

1. Id must be of type id.
2. title value not blank, min 3 and max 500 characters.
3. optionA value not blank, min 3 and max 500 characters.
4. optionB value not blank, min 3 and max 500 characters.
5. optionC value not blank, min 3 and max 500 characters.
6. ans value not null, min 1 and max 3.

2. Result

7. Id must be of type id.
8. username value not blank, min 3 and max 500 characters

5 CONSIDERATIONS

The Code template already contains skeleton methods for service and controller layer. Please write your logic in it.

6 EXECUTION STEPS TO FOLLOW

1. All actions like build, compile, running application, running test cases will be through Command Terminal.
2. To open the command terminal the test takers, need to go to Application menu
(Three horizontal lines at left top) → Terminal → New Terminal
3. To build your project use command:
mvn clean package -Dmaven.test.skip
4. To launch your application:
java -jar springboot-quiz-app-0.0.1-SNAPSHOT.jar
5. This editor Auto Saves the code
6. If you want to exit(logout) and continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to use **CTRL+Shift+B**-command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.
7. These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.
8. To test any Restful application, the last option on the left panel of IDE, you can find ThunderClient, which is the lightweight equivalent of POSTMAN.
9. This is a web-based application, to run the application on a browser, use the internal browser in the workspace. Click on the second last option on the left panel of IDE, you can find Browser Preview, where you can launch the application.
Note: The application will not run in the local browser
10. Default credentials for MySQL:
 - a. Username: **root**
 - b. Password: **pass@word1**
11. To login to mysql instance: Open new terminal and use following command:
 - a. **sudo systemctl enable mysql**
 - b. **sudo systemctl start mysql**

NOTE: After typing the second sql command (sudo systemctl start mysql), you may encounter a warning message like :

System has not been booted with systemd as init system (PID 1). Can't operate. Failed to connect to bus: Host is down
>> Please note that this warning is expected and can be disregarded.
Proceed to the next step.

c. **mysql -u root -p**

The last command will ask for password which is '**pass@word1**'

12. Mandatory: Before final submission run the following command:

mvn test

13. You need to use **CTRL+Shift+B** - command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.