Online Test Application

Course-end Project 2

I have created this Online Test Application that enables users to provide online tests, review them, and display the results.

**Steps:**

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| 1 | Base spring boot project setup is done |
| 2 | model repository and controller finalized |
| 3 | application.properties finalized |
| 4 | Angular application setup is done |
| 5 | models services and components added |
| 6 | app.modules finalized |
| 7 | application enabled with bootstrap |
| 8 | app-routing.module finalized |
| 9 | app.component.html finalized |
| 10 | test-paper-question.model finalized |
| 11 | test-paper-question.service finalized |
| 12 | data.sql added |
| 13 | Application finalized after overcoming lots of challenges like -adding update option in the Spring Boot Repository/controller -addition of the footer -finalizing welcome page -correct implementation of the http.put method in angular service -finalization of the test paper with only radio buttons -finalization of the test paper result |

**I have used the following tools:**

● Eclipse IDE to code for the application   
● Java: A programming language to develop the databases, and others  
● H2: To create tables for various entities  
● MySql: To store data for the application  
● SpringBoot: To create a web, H2, MySQL, Spring Data Repository and JPA enabled Maven project  
● JPA Hibernate to connect with the database  
● Angular: To develop a front-end application that includes a sign up page, a sign in page, and a landing page   
● HTML: To define the content of the website  
● Bootstrap: To build the website  
● TypeScript: To handle events and responses  
● JQuery: To include JavaScript plugins like modals, tooltips, etc.  
● Git: To connect and push files from the local system to GitHub   
● GitHub: To store the Angular application

**Conclusion:**

● The web application is a responsive and contains two main modules: Quiz and Result. The quiz section of the online test application accepts the questions in JSON format. The “Result” section allows users to declare the results immediately.  
● All versions of the application are available on GitHub repository:  
 <https://github.com/hirahul0011/Assessment_OTA>  
● As per my testing, application is working properly, please check the source code and let me know if have any query/suggestion in it.