Quiz Application

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# Introduction

The Quiz Application allows users to take up a quiz and gives them the result of their quiz as soon as they click on the review button in the “Quiz Section”. The application also shows the number of users that have taken the quiz and their results in the “*Results so far*” section. The user can choose to return to the main page by clicking on the “Return to homepage” on the menu bar. This application is made using Angular JS framework for frontend and Spring Boot for backend. It uses the Spring Boot embedded database h2 to store the questions and the results.

# Http Method Description

## Http Post

* + 1. This method takes the username and the list of answers form the “Quiz” section when the user clicks on submit
    2. Then it checks whether the user answer is the same as the correct answer stored in the Question table by the admin and sends back the list of responses.

## Http Get

* + 1. This method retrieves List of users and their quiz results from the Result table in the H2 database.

# Front-End Description

## Quiz Section

* + 1. User can take the quiz by filling his name in the text box, selecting the MCQs and then clicking on “Submit”. This sends the answers to the backend for testing.
    2. User can then click on the “Click to Review” button to check review the correct answers and view his result.

## Results so far

* + 1. The results of all users who have taken the quiz.

## Return to Home Page

* + 1. This allows users to return to the main page.

# GitHub Repository

The Application folder has been uploaded to GitHub to the following repository link: <https://github.com/daylinda/BNP_Training_Project3>

# How to execute application

## Run Back-End

* + 1. Install Spring Tool Suite 4
    2. Import the application folder to workspace
    3. Run as Spring Boot application

## Run Front-End

* + 1. Install Visual Studio Code
    2. Import application folder into workspace
    3. Then type the following commands into the IDE terminal
       1. cd quiz
       2. ng s –o (or type ng s --open)
    4. To take the quiz, go to the “*Quiz*” Section in menu and fill out the entry for name and answers, then click on “Submit”
    5. To review your answers click on “Click to review”, you will get the following
       - * Result of attempt
         * Table with question number, your answer and the correct answer
    6. To check the record of results, click on “Results so far” Section in menu, you will get the name of users and their results.
    7. Click on “Return to Home Page” Section in menu to return to the page you started.

# Pre-requisites to run the application

* 1. Java JDK 1.8
  2. Spring Tool Suite 4
  3. Node JS
  4. Angular JS 8
  5. Visual Studio Code

[Note: This application uses the embedded h2 database; hence whenever you restart the backend application the database is dropped and recreated.]