

# Online Quiz Application

1. Registration Page
  - Before taking a quiz, a user has to first register and login. User can directly click on the register link (provided on either login page or nav bar) and be directed to a register page to create an account.
2. Login Page
  - Login Page should be the default page when user enters the application.
  - If the user is not login but attempts to access your quiz application, you should redirect them to Login Page as well.
3. Home Page
  - List of different type quiz that the application provides
  - You should at least have 3 different type of quizzes
4. Quiz Screen
  - Each quiz has 10 multiple choice questions
  - Should contain a navigator so that users are able to jump to different questions through this navigator
    - (Optional) display different styles for answered and unanswered questions
  - Provide a Previous and Next button for navigating users to the previous or next question
    - If this question is the first question of the quiz, then there is no prev button
    - If this question is the last question of the quiz, then there is no next button
  - A Submit button to submit the entire quiz
  - (Bonus) - Implement short answer questions
  - (Bonus) - shows a countdown timer for the quiz, you can assume each quiz last at most 15 minutes. If user exceeds the time limit, show an alert and force this user to submit the quiz.
5. Quiz Result
  - Show Quiz Name
  - Show User Full Name
  - Show Starting time and end time
  - Show the result of each multiple choice questions including the question content, question options, and the user selected option
  - If the user answers more than 6 questions correctly, then display the user passes the quiz, otherwise, the system should display the user fails this quiz
  - Show a “take another quiz” link to direct user back to home page
6. Feedback
  - User can submit feedback to this application
  - Provide Star rating function - 5 star is the max
  - Text boxes for user inputting their feedback
  - Feedback should be anonymous
7. Global Nav Bar
  - Home
  - Login (If the user is currently login, then this button should be display as logout button)
  - Register
  - Feedback
  - Contact Us

8. Admin Page (See full Admin requirements in the other PDF)

- Regular users should not be able to access this page
- View Different Users information
- View all feedbacks for this application

9. Contact Us (Bonus)

Note:

- Use Spring Boot, JDBC, MySQL to develop this project
- MVC architecture is required
- Please use JSTL instead of scriptlet in your jsp pages
- Create at least 20 questions for each category of a quiz
- Questions should be randomly assigned to each quiz
- (Optional) Add CSS/Bootstrap to make your web application look good
- All required functions should be implemented