QUIZ APPLICATION

IIHT

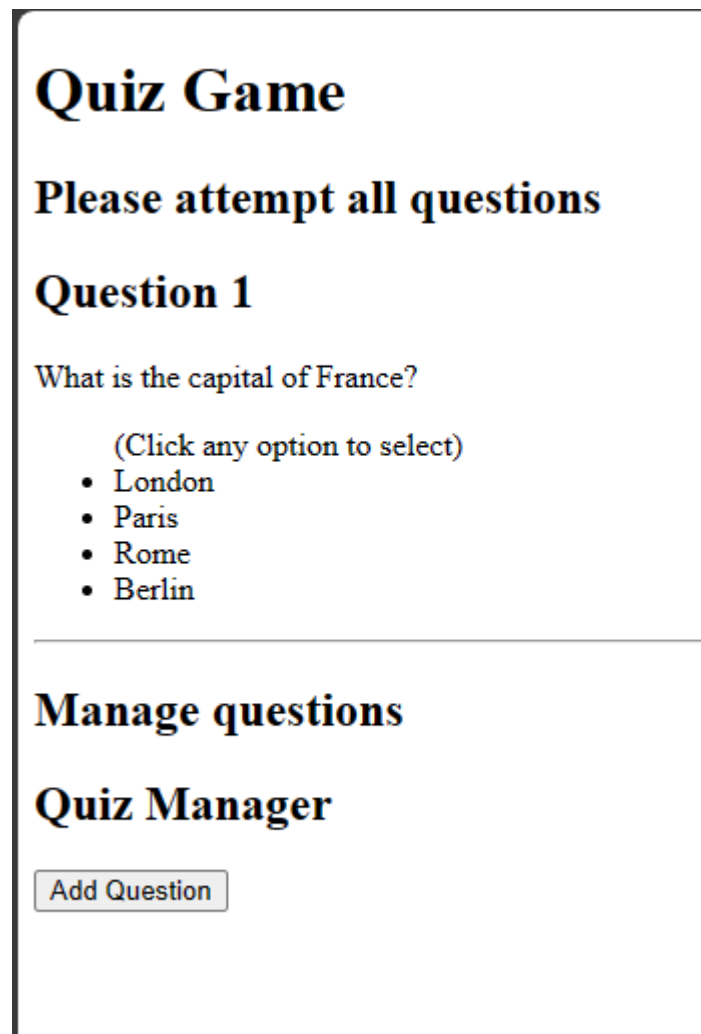Time To Complete: 2 hr

CONTENTS

1 PROBLEM STATEMENT

"Quiz Application" is a Single Page Application (SPA) that empowers users to have a check on their knowledge by selecting correct answers for asked questions. It also has a feature to show the result and add new questions also.

2 PROPOSED QUIZ APPLICATION WIREFRAME

UI needs improvisation and modification as per given use case and to make test cases passed.

2.1 WELCOME PAGE

Quiz Game

Please attempt all questions

Question 1

What is the capital of France?

(Click any option to select)
- London
- Paris
- Rome
- Berlin

Manage questions

Quiz Manager

Add Question

SCREEN SHOTS

Quiz Game

Please attempt all questions

Question 2

What is the largest planet in our solar system?

      (Click any option to select)
- Mars
- Jupiter
- Earth
- Saturn

Manage questions

Quiz Manager

Add Question

Quiz Game

Please attempt all questions

Quiz Result

Your score: 2 out of 2

Retry Quiz

Manage questions

Quiz Manager

Add Question

Quiz Game

Please attempt all questions

Quiz Result

Your score: 2 out of 2

Retry Quiz

Manage questions

Quiz Manager

Add Question

Question:

Options:

Correct Answer:

Save Question

3 BUSINESS-REQUIREMENT:

As an application developer, develop the Quiz Application (Single Page App) with below guidelines:

User Story #	User Story Name	User Story
US_01	Welcome Page	As a user I should be able to visit the welcome page as default page. Acceptance criteria: 1. Users should be able to see a question with 4 options. 2. All 4 options should be clickable and once clicked the next question should be shown here. 3. Attempting all questions should show a result on the last page containing the count of correct answers. 4. We should be able to add a new question by clicking the "Add Question" button. 5. In the question form, we should have a field to add question text and other 4 fields to add options.

4 VALIDATIONS

- All questions must be attempted first to see the result.

5 CONSTRAINTS

- You should be able to press the "TAB" key and "SHIFT + TAB" to navigate from top field to bottom field and vice-versa.
- On clicking the "Add Question" button, a new question must be added with entered fields.

6 MANDATORY ASSESSMENT GUIDELINES

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. This editor Auto Saves the code.

4. 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.

5. 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.

6. 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.

7. 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

8. You can follow series of command to setup React environment once you are in your project-name folder:

   a. npm install -> Will install all dependencies -> takes 10 to 15 min

   b. npm run start -> To compile and deploy the project in browser. You can press <Ctrl> key while clicking on localhost:8080/8081 to open project in browser -> takes 2 to 3 min

   c. npm run test -> to run all test cases. It is mandatory to run this command before submission of workspace -> takes 5 to 6 min

9. You may also run "npm run jest" while developing the solution to re-factor the code to pass the test-cases.

10. Once you are done with development and ready with submission, you may navigate to the previous tab and submit the workspace. It is mandatory to click on "Submit Assessment" after you are done with code.

11. 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.