

ReactJS

Lab Assignment

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RECORD OF CHANGES

Full	Effective Date	Change Description	Reason	Reviewer	Approver
1	26/Oct/2021	Create new assignment	Create	ThuanNH3	VinhNV

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J.	. 1010	



CODE: ASM2- ReactJS-quiz_app

TYPE: N/A

LOC: N/A

DURATION: N/A

I. Goals

- Able to use function components.
- Able to use the two basic hooks, useState and useEffect.
- Capable of analyzing and dividing common components.
- Control the data communication between components.
- Understand conditional rendering.

II. Application overview

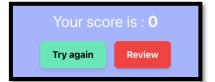
1. Features:

- Quiz application.
- Features: Next, Previous and Submit.
- Allows users to review the answer after submitted.

2. Interface:

- The app's interface can be found at the following link:
 https://fa-react-quiz-app.vercel.app
- The app has 4 screens: Start game, In Game, End game and Review.









III. Details

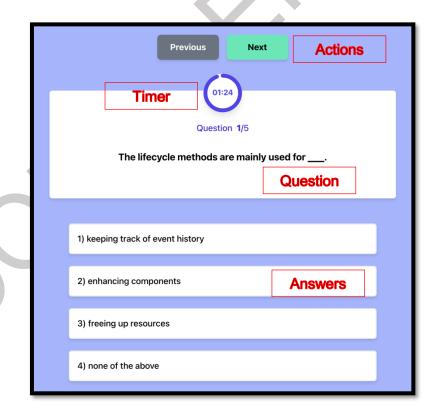
1. Start game screen:



Requirements:

- a) Interface:
 - A title.
 - A start button.
- b) Function:
 - Click on the Start button, go to the In-game screen.

2. In Game Screen:

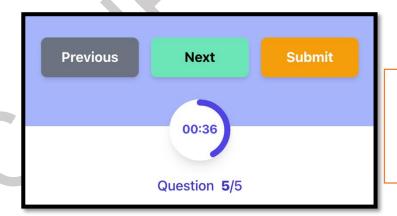


Requirements:

a) Interface:

- The interface is as design as possible.
- Actions: Previous, Next and Submit.
- When the player is at the last question, the submit button will appear.
- The question will consist of two parts:
 - The current question/total number of questions.
 - The content of the question.
- The answer will be displayed accordingly. Each question has a different number of answers.
- When hovering any answer, highlight it.
- When user select an answer, the selected answer will be highlighted and as same as hovering.
- Bonus: Display a Timer the countdown clock.

When hovering on the answer or when an answer is selected



Submit button only apprear when player reaches the last question

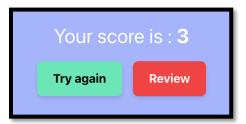
b) Function:

- When the player click on "Previous" or "Next" button, go to the previous or next question.
- The Submit button only appears at the last question. After submitted, go to the "End game" screen.
- When the player changes the question, the current Question/total questions will be updated accordingly.

- When player selects one answer, highlight it.
- **Bonus:** count down (default 1 minute 30seconds). When timeout, automatically go to the end game screen.

- **Bonus:** Disable Previous/Next button when the player is at the first or last question.

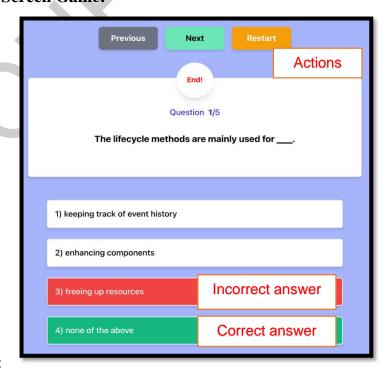
3. End Game screen:



Request:

- a) Interface:
 - Score.
 - Try again button.
 - Review button.
- b) Function:
 - Display player's score based on the number of correct answers.
 - Clicking the Try again button, go to the Start game screen.
 - Clicking the Review button, go to the Review screen.

4. Review Screen Game:



Request:

a) Interface:

- Hide the Submit button then show the Restart button.
- The incorrect answer will be marked as red.
- The correct answer is marked as green.
- Bonus: Timer display "End!"

b) Function:

- Clicking Restart button, reset the game and go to the Start screen.
- Display incorrect answers as red, correct answers as green.

5. Color code:

App background color: #A5B4FC

- Start/Next/Try Again Buttons: #6ED5B7

- Previous Button: #6B7280

- Submit/Restart Buttons: #F59E0B

Answers hover background, Timer, Current Questions: #312E81

Incorrect answer: #EF4444Correct answer: #10B981

6. Note:

- Only use Function Component.
- Do not use any frameworks, libraries such as Bootstrap, NPM packages....
- You are provided a JSON input question file (questions.json)



- Usage: Import directly to js or ts files.

-----(END & GOODLUCK) ------