ASSIGNMENT-1
QUIZ APP (QUIZZO)

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BTECH CSE

INTRODUCTION

I have developed this web application using React JS framework. React is a front-end framework mainly used to design user interfaces. React has a very high rendering speed making it suitable for high-load applications.

Link : https://practical-quizapp-b19cse053.netlify.app/

TOOLS USED: HTML,CSS ,JAVASCRIPT ,REACT JS, GITHUB, NETLIFY (FOR DEPLOYMENT).

OPENING SOURCE CODE

- Copy the files in your local environment
- Run npm install (in the terminal) to install the dependencies.
- The "src" folder contains the javascript,Jsx and css files.
- The "public" folder contains the html file.

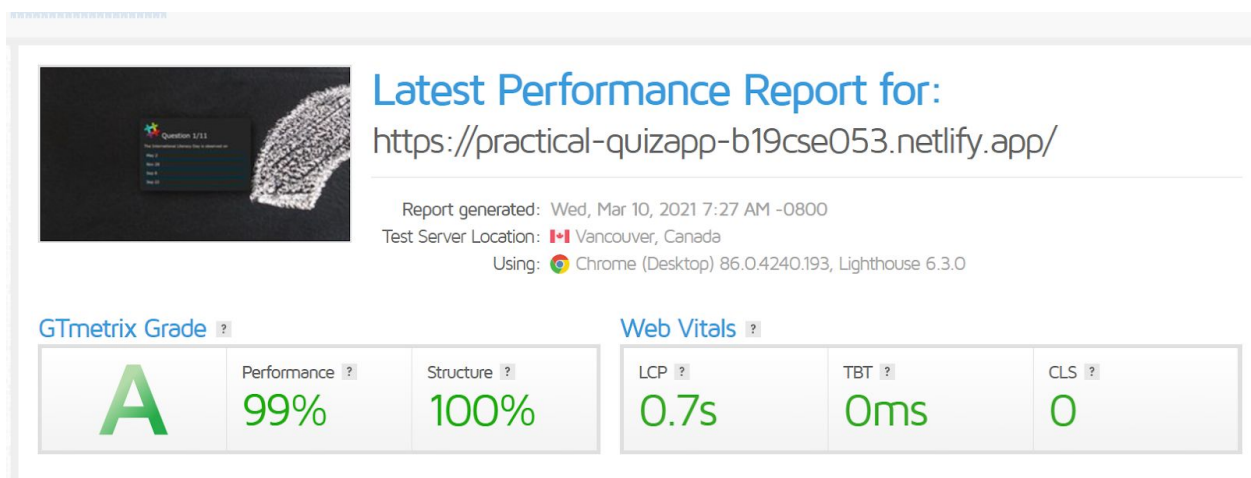- Run npm start to run the application at local host.

MEMORY MANAGEMENT

- I have used react hooks for defining the state variables.
- I have used mainly three variable -
    1. One integer variable for score
    2. One integer variable to track the current question number.
    3. One boolean for storing the state of quiz(Whether the quiz has ended or not)

```
const [currentQuestion, setCurrentQuestion] = useState(0);
const [showScore, setShowScore] = useState(false);
const [score, setScore] = useState(0);
```

- Third party dependencies are minimal which improves the run-time performance.
- I have used the question bank in another file as a javascript object and have used React's map function to map through all the questions.

SITE TEST REPORT ON GTMetrix:

Latest Performance Report for:
https://practical-quizapp-b19cse053.netlify.app/

Report generated: Wed, Mar 10, 2021 7:27 AM -0800
Test Server Location: Vancouver, Canada
Using: Chrome (Desktop) 86.0.4240.193, Lighthouse 6.3.0

GTmetrix Grade ?

	Performance ?	Structure ?
A	99%	100%

Web Vitals ?

LCP ?	TBT ?	CLS ?
0.7s	0ms	0

Performance Metrics

The following metrics are generated using Lighthouse Performance data.

Metric details `ON`

First Contentful Paint

How quickly content like text or images are painted onto your page. A good user experience is 0.9s or less. Learn more.

Good - Nothing to do here

0.7s

Time to Interactive

How long it takes for your page to become fully interactive. A good user experience is 2.5s or less. Learn more.

Good - Nothing to do here

0.7s

Speed Index

How quickly the contents of your page are visibly populated. A good user experience is 1.3s or less. Learn more.

Good - Nothing to do here

0.9s

Total Blocking Time

How much time is blocked by scripts during your page loading process. A good user experience is 150ms or less. Learn more.

Good - Nothing to do here

0ms

Largest Contentful Paint

How long it takes for the largest element of content (e.g. a hero image) to be painted on your page. A good user experience is 1.2s or less. Learn more.

Good - Nothing to do here

0.7s

Cumulative Layout Shift

How much your page's layout shifts as it loads. A good user experience is a score of 0.1 or less. Learn more.

Good - Nothing to do here

0

https://gtmetrix.com/reports/practical-quizapp-b19cse053.netlify.app/PvnoEuUc/