

Developing an Online Test Application

Developer: Kamar Zaghloul

1. Info

- FSD 2021 (Vodafone)
- **Developer:** Kamar Zaghloul
- **GitHub Repo:**

https://github.com/kamarz01/Simplilearn_Phase4_OnlineTestApp_ReactJS

2. Introduction

DESCRIPTION

The Online Test Application system creates an application that enables users to provide online tests, review them, and display the results.

DESCRIPTION

This system contains three main modules: Quiz, Review, and Result. The quiz section of the online test application accepts the questions in JSON format. The JSON file can be easily shared from the server in the pre-defined format. The application renders the test at the client-side.

The "Review and display result" section allows users to declare the results immediately. You can simply call another JSON with the answers in it and evaluate and display the results immediately.

3. Project Planning

- The project is to be completed in one sprints.
- The resources available for this project is (1): A Full Stack Developer.
-

Sprint (1) will include:

- Create empty react app.
- Create questions file.
- Create Login Component.
- Create Questions Component.
- Create Result Component.
- Styling the entire application.

4. Technologies & Libraries used in Project

- React JS
- React Redux
- Redux Toolkit
- React Router
- Material UI Components
- Material UI Icons
- Axios http client
- HTML
- CSS
- JavaScript
- Json-server

5. Application Data

The questions data provided using a JSON file using json-server library, start json-server on port 3010.

The data file is on the following location:

[online-test-app/src/data/questions.json](#)

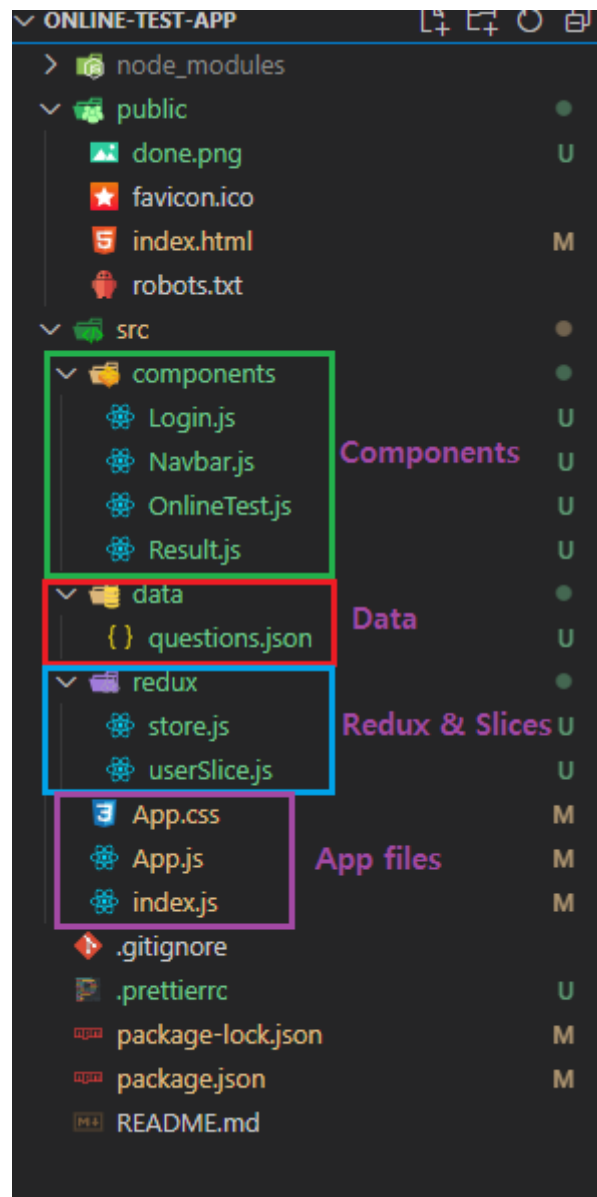
Command: json-server questions.json --port 3010

```
src > data > {} questions.json > ...
1  {
2    "questions": [
3      {
4        "qId": "1",
5        "question": "What is the result of 1+1",
6        "options": ["1","2","3","4"],
7        "correctOption": 2
8      },
9      {
10       "qId": "2",
11       "question": "What is the missing char GREE* in that color?",
12       "options": ["A","B","C","N"],
13       "correctOption": 4
14     },
15     {
16       "qId": "3",
17       "question": "How many moon belongs to earth?",
18       "options": ["One","Two","Three","Four"],
19       "correctOption": 1
20     },
21     {
22       "qId": "4",
23       "question": "Complete: United States of ...",
24       "options": ["Canada","India","America","Egypt"],
25       "correctOption": 3
26     },
27     {
28       "qId": "5",
29       "question": "What is the opposite of black?",
30       "options": ["White","Green","Black","Red"],
31       "correctOption": 1
32     }
33   ]
34 }
35
```

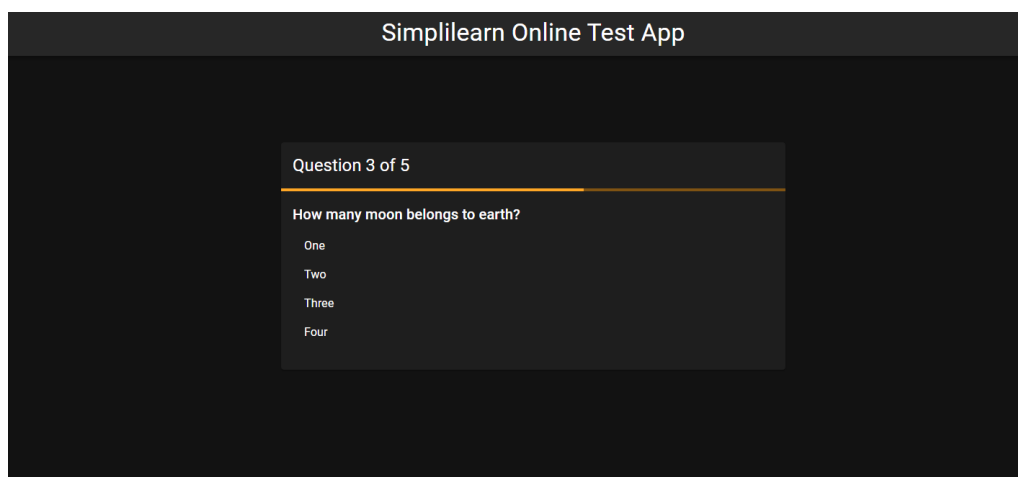
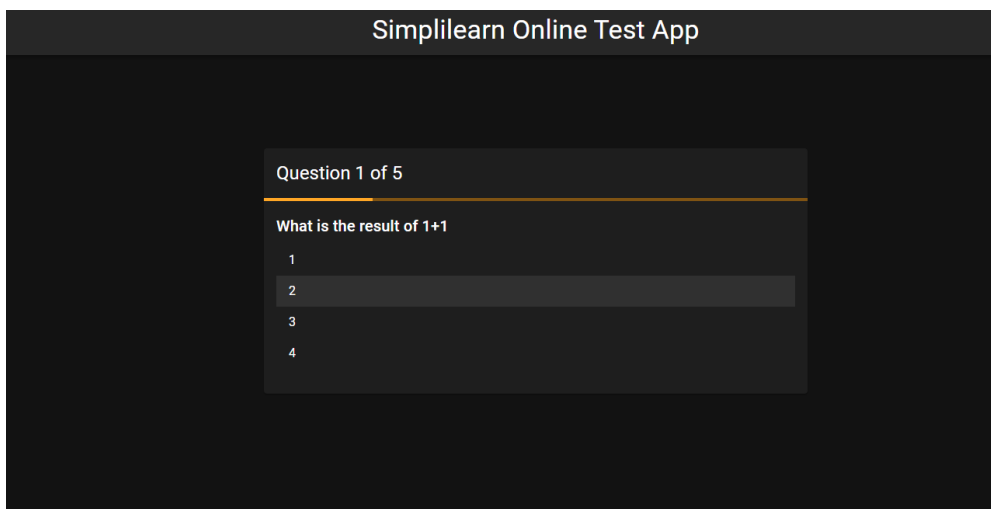
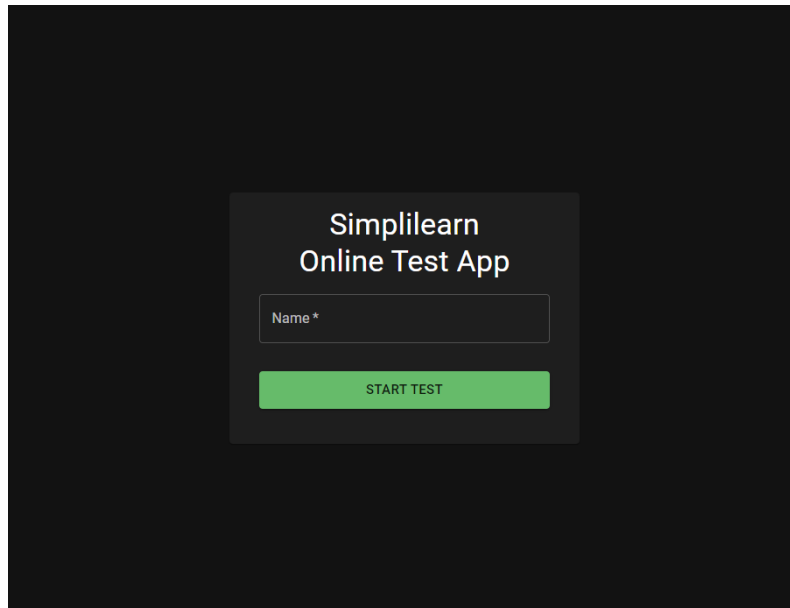
Install node modules first: npm install

6. Project Structure

The project is created with a clean structure as follows:



7. Application Demo



Simplilearn Online Test App

Question 5 of 5

What is the opposite of black?

- White
- Green
- Black
- Red

Simplilearn Online Test App

Thanks \$Kamar, Test Completed

TEST RESULT

1/5

RETRY



What is the result of 1+1



What is the missing char GREE* in that color?



How many moon belongs to earth?



Complete: United States of ...



What is the opposite of black?



TEST RESULT

1/5

RETRY

What is the result of 1+1



What is the missing char GREE* in that color?



How many moon belongs to earth?



Complete: United States of ...



What is the opposite of black?



What is the result of 1+1



1

2

3

4

What is the missing char GREE* in that color?



What is the missing char GREE* in that color?

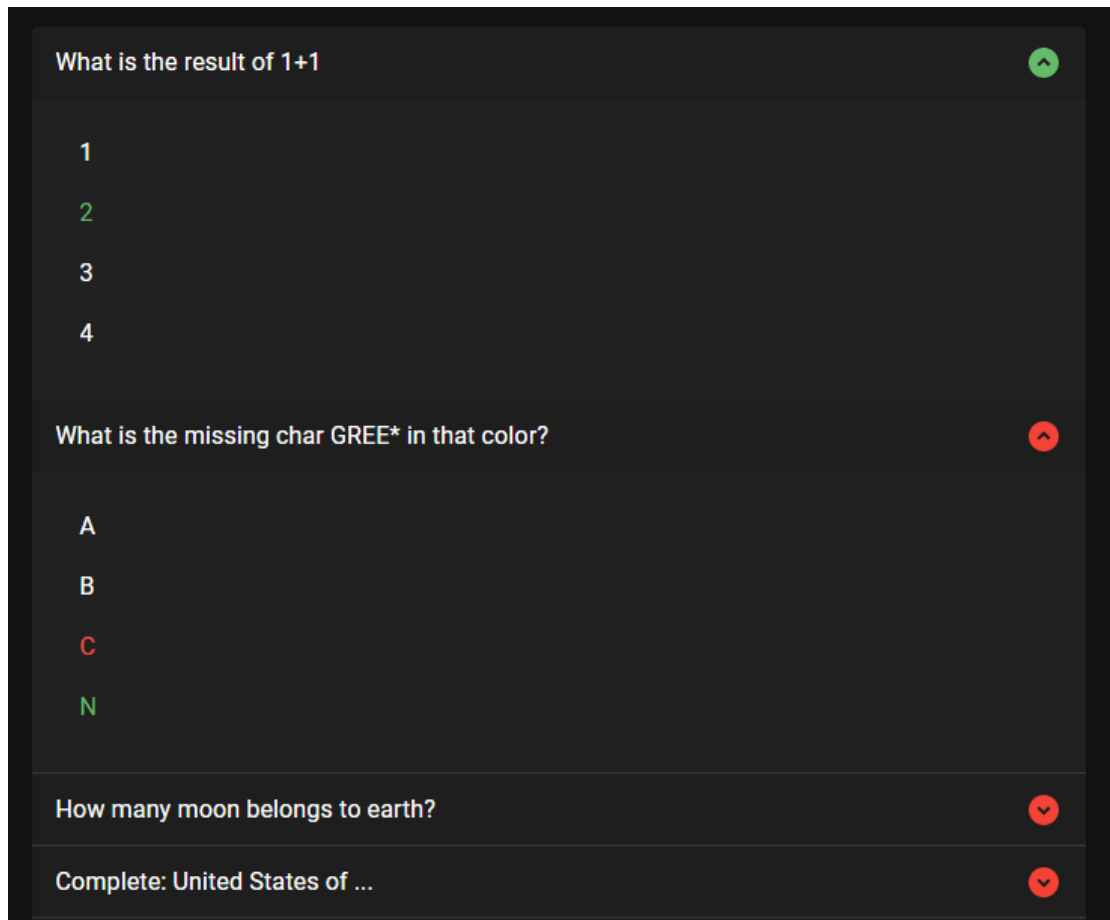


A

B

C

N



Screenshots are also uploaded here:

https://github.com/kamarz01/Simplilearn_Phase4_OnlineTestApp_ReactJS/tree/main/screenshots

8. GitHub Repo

https://github.com/kamarz01/Simplilearn_Phase4_OnlineTestApp_ReactJS

Thanks in Advance