



Front-end Essentials

Training Assignment

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RECORD OF CHANGES

No	Effective Date	Change Description	Reason	Reviewer	Approver
1	30/May/2019	Create a new assignment	Create new	DieuNT1	VinhNV
2	07/Jun/2019	Update Fsoft Template	Update	DieuNT1	VinhNV

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CODE:	JS-E.M.A1202 (Quiz App)
TYPE:	Medium
LOC:	300
DURATION:	180 minutes

Unit 11-12: DOM and Events

Objectives

- Understand DOM and how to use DOM Events to interact with web page
- Understand Model-driven concept with working with DOM

Specification:

You have to design an Online Quiz using OOP style. The app consists of 3 mains parts (see below figure)

1. The title: **JavaScript Online Quiz**
2. The Question Container which contains the Question and a list of choice. User can only choose 1 answer from the list.
3. Button Group: Previous Question, Next Question, Submit

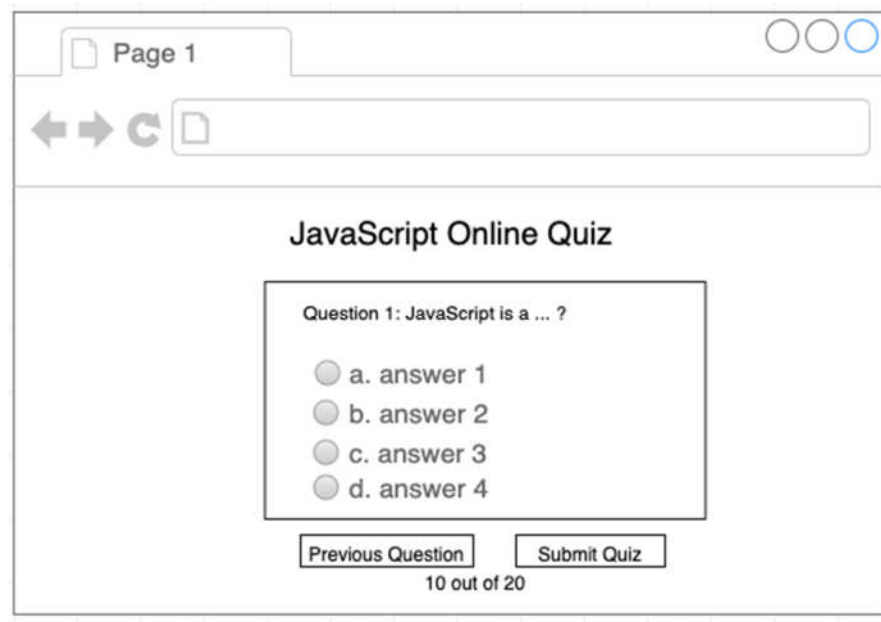


Suppose we have 20 Questions in total.

If the current question is 1 (count from 1 to 20), only **Next Question** button is shown. Click on this button will show next question (in this case question number 2).

If current question is from 2 to 20, then **Previous Question** must be show. Click on that button will show previous question.

If you are at last question (Question number 20), you must show **Submit Quiz** button, and hide Next Question (there is no more next question). If user click on this button, you must show his/her total score below the Button Group



Find below the list of questions represented in JavaScript:

```
1. const myQuestions = [  
2.   {  
3.     question: 'Javascript is _____ language.',  
4.     answers: {  
5.       a: 'Programming',  
6.       b: 'Application',  
7.       c: 'None of These',  
8.       d: 'Scripting'  
9.     },  
10.    multi: false,  
11.    correctAnswer: 'd'  
12.  },  
13.  {  
14.    question:  
15.      'Which of the following is a valid type of function javascript supports?',  
16.    answers: {  
17.      a: 'named function',  
18.      b: 'anonymous function',  
19.      c: 'both of the above',  
20.      d: 'none of the above'  
21.    },  
22.    multi: false,  
23.    correctAnswer: 'c'  
24.  },  
25.  {  
26.    question:  
27.      'Which built-in method returns the index within the calling String object of the  
28.      first occurrence of the specified value?',  
29.    answers: {  
30.      a: 'getIndex()',  
31.      b: 'location()',  
32.      c: 'indexOf()',  
33.      d: 'getLocation()'  
34.    },  
35.    multi: false,  
36.    correctAnswer: 'c'  
37.  },  
38.  {  
39.    question: 'Which one of the following is valid data type of JavaScript',  
40.    answers: {  
41.      a: 'number',
```

```
41.      b: 'void',
42.      c: 'boolean',
43.      d: 'nothing'
44.    },
45.    multi: false,
46.    correctAnswer: 'c'
47.  }
48.  ];
```

Bonus:

Extend the functionality of the app to support Question with Multi Choice without breaking the current flow.