Project

Documentation

AND

Test Cases

For

Quiz Template

Using Java Script

PART - 1

Documentation

1: <u>Introduction</u>

The Quiz template is created under the COMMON QUIZ UI TASK of SRIP@2019.

Languages Used:

HTML and CSS

JavaScript

External :

Ajax

<mark><u>Requirements:</u></mark>

<mark>Firefox Browser is must</mark>

<mark>Internet Connection is must</mark>

2:<u>Function Description</u>

Here the discussion is all about the functions of quiz created using JavaScript.

It Contains following 17 functions:-

1- generate Question Container

2- generate Result Container

3- put containers

4- put Result

5- remove child

6- generate Random Index

7- get Content

8- put Content

9- check Answers

10- submit Answers

11- start Quiz

12- submit Quiz

13- Constructor

14- load

15- initialize Array

16- start Quiz init

17- is submittable

2.1)-generate Question Container :-

Function Introduction:-

This function is used to generate the container structure for each question and their options dynamically.

Function Implementation:-

Function takes the Question Id and Answer ID as parameter to assigned to respective containers.

2.2)-generate Result Container :-

Function Introduction:-

This function is used to generate the container structure for Result for each question and their correct and user Answers dynamically.

Function Implementation:-

Function takes the Result ID as parameter to assigned to respective containers.

2.3)- put Containers :-

Function Introduction:-

This function is used as wrapper over 2.1 and 2.2

Function Implementation:-

This function is randomly generates the number of container (here the value is set to 5 as per the guidelines from SRIP) and then creates that number of containers using function 2.1 and 2.2 (discussed above).

2.4)- put Result :-

Function Introduction:-

This function is used to display the results for the quiz

Function Implementation:-

Function first creates variables used as ID for different sections. After that the User Answers (stored in global variable) is used to decide the icon of particular question.

2.5)- remove Child :-

Function Introduction:-

This function is used to remove the child of Result and Quiz container to make a fresh start using the DOM property.

2.6)- generate Random Index :-

Function Introduction:-

This function is used to generate the Random number within a specified range using the JavaScript inbuilt function.

Function Implementation:-

This function uses the constant which is the total number of question stored as JSON data to generate the Random Number. It then check , whether the number generated is generated earlier or not and stores and regenerate accordingly, to ensure that same question will not repeat.

2.7)- get Content :-

Function Introduction:-

This function is used to place the options of a passed Question in random order.

2.8)- put Questions :-

Function Introduction:-

This function is used as wrapper over 2.7 and is used to put all the questions as the number of container.

2.9)- check Answers :-

Function Introduction:-

Functions used to validate and stores the score of User for their answers.

Function Implementation:-

This function is checking whether the user has skipped the question or not and if not skipped, it stores which option is selected by user and increase the score of user , if selected option is the right answer. It returns the above status to the caller function for storing purposes.

2.10)- submit Answers :-

Function Introduction:-

This function is used as wrapper over 2.9

Function Implementation:-

This function stores the status from function 2.9 and push it on global variable for further calculations.

2.11)- start Quiz :-

Function Introduction:-

This function is on-click listener of start button of quiz

Function Implementation:-

Functions alters the visibility of some containers and their content and places random number of question with randomize option. It also removes the previous questions or result (if exists).

2.12)- submit Quiz :-

Function Introduction:-

This function is on-click listener of submit button of quiz

Function Implementation:-

Functions alters the visibility of some containers and their content and places result with their result status. It also initializes all the global variables for the fresh start..

2.13)- Constructor :-

Function Introduction:-

This function is used to create a object for jsonData array and takes inputs from data .json file.

2.14)- Load :-

Function Introduction:-

This function is a on load listener of body.

Function Implementation:-

This function is used as a wrapper for 2.15

2.15)- Initialize array :-

Function Introduction:-

This function is used to fetch the data from data.json file and populate the global array by creating objects of data with the help of 2.13

2.16)- start quiz init :-

Function Introduction:-

This function is onclick listener of Test yourself button. This function is similar to 2.11 with some changes.

2.17)- Is submittable :-

Function Introduction:-

This function is used to check whether all the questions has attempted or not.

3 : FAQ for Quiz

Here some general FAQ are listed. For any specific issue message me directly on slack.

3.1)- What is the browser Compatibility?

Quiz is not working on chrome. But it works fine on Firefox. So latest Firefox browser is recommended.

3.2)- Explain abstracted working of quiz?

Steps to follow:-

* Open index.htm

* Click the Test Yourself button

* Attempt all questions and submit the quiz by clicking on Get Score button

* You will get the result showing in header of quiz.

3.3)-How to add the questions?

Just replace the content of data.json file with your questions, options and description.

Warning-: Do not change the title of data.json that is "article", and if you want to change it , also make the change in initialize array (change data.article to data."newname")

3.4)-How to change the number of questions in quiz?

Change the 1st entry in json file for totalContainers.

3.5) - How to add the questions?

Just replace the content of data.json file with your questions, options and description.

3.6)- How to change the number of options?

You can change the number of options for each question separately. You can do this by removing and adding the options in option array of each question

3.7)- How to change the title of Quiz?

You can change it by changing the 1st entry of json file for quiztitle.

PART - 2

Test Cases

QUIZ_1 (Quiz Submission) (18)

Test Name	Quiz Submission			Test Case ID	QUIZ_1		
Test Case Description	Checking control flow			**Test Priority**	High		
Pre-Requisite	NA			**Post-Requisite**	NA		
S. No	**Action**	**Inputs**	**Expected Output**	**Actual Output**		**Test Browser**	**Test Result**
1	Launch Quiz	index.html	Index. Html page opened	Index. Html page opened		FF 66.0.4	Pass
2	Start Quiz	Click test yourself	Questions and options are displayed and ready for input	Questions and options are displayed and ready for input		FF 66.0.4	Pass
3	Leave some questions un-attempted and submit	Click get score	Alert shown up and quiz is not submitted	Alert shown up and quiz is not submitted		FF 66.0.4	Pass

END OF DOCUMENTATION

References:-

Software Testing Help Website

Source Code of QUIZ TEMPLATE

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Project Details:-

Project Domain – Srip Quiz

Issue Number – 2

Submitted to:-

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