A

SOFTWARE REQUIREMENT SPECIFICATION

ON

WEB BASED QUIZ SYSTEM

UNDER

NON-SYLLABUS PROJECT

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DECLARATION

I hereby declare that the Non-syllabus Project report entitled “WEB BASED QUIZ SYSTEM" was carried out and written by me under the guidance of Shikha Gautam, Assistant Professor, Department of Computer Engineering, Poornima Institute of Engineering & Technology, Jaipur. This work has not been previously formed the basis for the award of any degree or diploma or certificate nor has been submitted elsewhere for the award of any degree or diploma.

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Chapter 1:Introduction of Project

1.1 INTRODUCTION

Online quiz is being launched because a need for a destination that is beneficial for both institutes and students. With this site, institutes can register and host online exams. Students can give exams and view their results. This site is an attempt to remove the existing flaws in the manual system of conducting exams.

1.2 Purpose

Online quiz system fulfills the requirements of the institutes to conduct the exams online. They do not have to go to any software developer to make a separate site for being able to conduct exams online. They just have to register on the site and enter the exam details and the lists of the students which can appear in the exam. Students can give exam without the need of going to any physical destination. They can view the result at the same time. Thus the purpose of the site is to provide a system that saves the efforts and time of both the institutes and the students.

1.3 What is Online Quiz System all about?

Online quiz system is a web application that establishes a network between the institutes and the students. Institutes enter on the site the questions they want in the exam. These questions are displayed as a test to the eligible students. The answers enter by the students are then evaluated and their score is calculated and saved. This score then can be accessed by the institutes to determine the passes students or to evaluate their performance. Online quiz system provides the platform but does not directly participate in, nor is it involved in any tests conducted.

The site has an administrator who keeps an eye on the overall functioning of the system. The site gets revenue by charging the institutes each time they want to conduct the exam. The system 12 entitled “Online Quiz System” is application software, which aims at providing services to the institutes and providing them with an option of selecting the eligible students by themselves. It is developed by using Moodle technology and related PHP and MySQL.

1.4 Software Requirement Specification (SRS)

The following subsections of the SRS document provide an overview of the entire SRS.

1.4.1 Purpose:

The purpose of the project is to provide online facility to Institutes to conduct online exams and to Students to give online exams. Institutes can enter and edit the questions along with the students list. Also they can view the result. Students can login and give their respective exams and view their score then and there. Others can view sample papers to get look and feel of the online examination system.

1.4.2 Scope:

The website to conduct online examination is online quiz system. This website provides facility to institutes to conduct online exams by providing a unique id to each institute. The institute provides questions along with positive and negative marks. Institute also enters the list of eligible students. All the information entered can be later edited by the institute. In turn students can login with their name and password to give the exams and can view their result

then and there. Institutes can also view the result of their students. This online quiz website reduces the manual work, maintaining accuracy, increasing efficiency and saving time. Also institutes need not go to develop a new software each time, instead they just register and conduct a test

1.4.3 Overview:

The rest of this SRS document describes the various system requirements, interfaces, features and functionalities in detail

1.5 Overall Description:

In Online examination system institute can register to conduct a online test and view the records later. Students can give the test and their respective records, which include their marks for each test given by them, will be maintained separately. Students can take a particular exam more than when the student finishes his exam; the system checks her answers and compared with the correct answer. And the system saves the incorrect and correct answers and calculates the mark of correct answers. Then give the total mark. And send a report for student to see where he is fault.

1.6 Objectives and concentrations:

- Corporate between the data stored in the server of the Institution and our On-line Exam system. To deal with On-line System in an easy way and an efficient mannered.
- Create strong and secrete data base that allow for any connection in a secret way, to prevent any outside or inside attacks.
- Specify a privilege for each person to allow each person use this system to create his own exam. And have a complete control on his exam.
- Allow each person to create more than one exam with different way to create variant questions.

1.7 Perspective:

The application will have a user friendly and menu based interface. Following screens will be provided:

1. A login screen for entering the username, password will be provided. Access to different screens will be based upon the user. There is a screen for displaying information regarding entries to be made by institutes.

2. There is a screen for displaying information regarding entries to be made by institutes. There is a screen for displaying information regarding entering student list for the particular exam.

3. There is a screen for displaying information menu regarding what There is a screen for displaying exam details to the students when they are taking exams questions, student list, deleting questions, entering exam details. There is a screen for displaying exam details to the students when they are taking exams.

4. There is a screen for displaying exam details to the students when they are taking exams. And there is a screen for taking exam for the students. Also There is a screen for displaying of results of students after taking the exam.

5. Hardware interfaces
i. Support for printer for printing results then and there.
ii. Screen resolution of at least 800x600 is required for proper and complete viewing of screens. Higher resolution will be accepted.

6. Software interfaces

i. Any windows based operating system.
ii. Moodle
iii. PHP, MySQL

1.7.1 Product Functions:

The website will allow access only to authorized users with specific roles (Administratormaintains the website, Institutes-Register to conduct the exams, Students-Give the exams online). A summary of the major functions that the website will perform: a. Provide facility to institutes to register to conduct a online test. b. Institutes can enter the number of questions, +ve, -ve marks, questions and answers and the list of eligible students. c. Students can login and give the tests.

1.7.2 User Characteristics:

Educational level: Users should be comfortable with the English language. Experience: Users should have prior information regarding the online examinations Skills: Users should have basic knowledge and should be comfortable using general purpose applications on computers.

1.7.3 Assumptions:

The examinations are all objective. Students can give each exam more than once.

1**.7.4 Specific Requirements**:

This Section provides software requirements to a level of detail sufficient to enable designers to design the system and testers to test the system.

Chapter 2: Requirement Analysis

2.1 Problem Definition

A website, online quiz system is to be designed to conduct online tests. Unlike other online examination systems this website should not be just for the students; instead it should also provides facility to Institutes to host online Tests/Exams. This will help institutes as:

There will be no need to get new software every time to conduct an online test. Also like other online websites, it will help students by:

- Saving the extra time of going to far away Exam Centre.
- Students need not wait for their results.

Also this website will remove the flaws of existing Manual Systems like:

- Reducing the manual labor (Decreases Overheads).
- Avoiding Mistakes Due To Human Error (Accurate).
- Will Increase Efficiency and Save Time.
- Will Allow Neat Handling Of Data Rather Than Error Prone Records.
- The institutes will register themselves with a unique login name and password; the unique id will be issued to the institutes by the website.

After login:

- They will enter exam details like number of questions, +ve and -ve marks.
- Then they will enter the questions along with the answers which can later be deleted and edited.
- Also they will enter the list of eligible candidates with their id names which can also be edited later.
- Institutes will be able to view the students list along with their respective results. Also for students:
- They should be able to login with their id, name and institute.
- They should be able to give the exam as per the details entered by respective institutes.
- Also they should be able to view their score after test finishes.
- If already given the test then they should just be able to view their scores.
- Other users can take sample tests to get feel and look of how the online tests are conducted.

2.2 Functional Requirements:

It deals with the functionalities required from the system which are as follows:

1.The website will help the colleges/organizations/companies to conduct to their online exams.
2. Only authorized person can access related details.
3. The organization will register them on the website for conducting their exams.
4. Organizations can change their information regarding themselves.
5. The students can login through TEST-ID and PASSWORD and give their exams.
6. Administrator will be responsible for updating the site.
7. The organization can change questions and test papers whenever they want.
8. Deliver the draft of project plan documentation to writer to rewrite the documentation and rewrite the document.
9. That gives the documentation of project plan to SW analyzer to do more analysis to verify the SRS documentation requirements then delivers document to writer.

2.3 The Technologies Used To Develop This Site:-

2.3.1HTML:

It is used to generate web page. HyperText Markup Language (HTML) is the predominant markup language for web pages. It provides a means to describe the structure of text-based information in a document-by denoting certain text as heading, paragraphs, lists and so on.

2.3.2 PHP:

PHP is a server-side scripting language designed primarily for web development but also used as a general-purpose programming language. PHP code may be embedded into HTML code.PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a Common Gateway Interface (CGI) executable. The web server combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a command-line interface (CLI) and can be used to implement standard graphical applications.

2.3.3 MySQL:

MySQL is an open source relational database management system (RDBMS). MySQL is a central component of the “LAMP” open-source web application software stack. LAMP is an acronym for “Linux, Apache, MySQL, and Perl/PHP/Python". User may use the included command line tools or use Mysql “front end”, desktop software and web applications that create and manage Mysql database, built database structures, back up data, inspect status and work MySQLi extension comes equipped with many benefits that compliment as well as improve those that were provided by its predecessor, MySQL. The features that are meant to enhance the functionality of the MySQL are an object oriented interface, support for statements that have been previously prepared, support for a variety of statements, support for any kind of transaction that takes place, an enhanced level of debugging support, and an enhanced level of server support that already embedded in the infrastructure of the database.

2.3.4 HTTP:

Hypertext Transfer Protocol is a transaction or oriented

2.3.5 Apache:

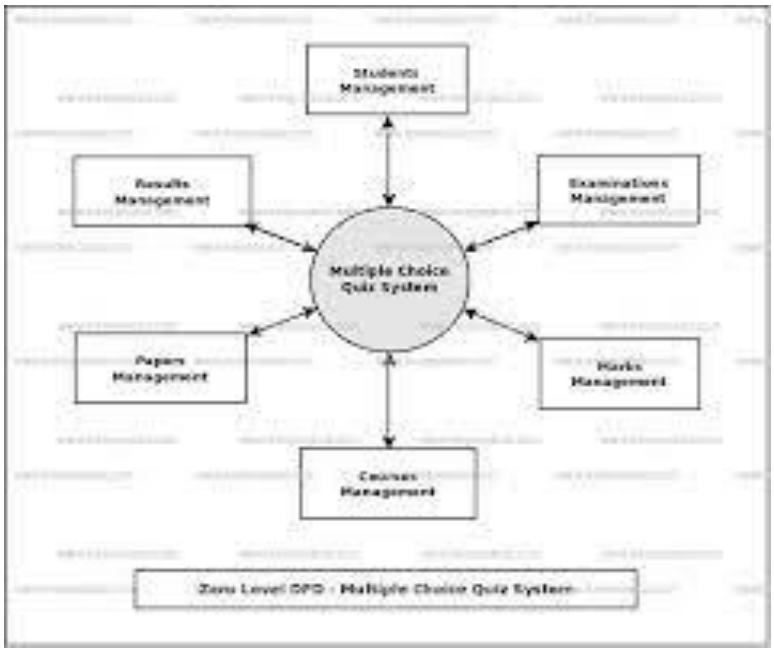
The Apache HTTP Server Project is an effort to develop and maintain an open-source HTTP server for modern operating systems including UNIX and Windows. The goal of this project is to provide a secure, efficient and extensible server that provides HTTP services in sync with the current HTTP standards

Chapter 3: Design

3.1 Design Constraints:

Only authorized users will be able to access the website by entering the correct login name and corresponding password. The website can be maintained in present or future. It will be easy to incorporate new requirements in the individual modules. As the website is online so it will be easily portable on various systems. The website will be also easily portable on any windows based system that has Ms Access installed.

3.2 Zero Level Diagram



Chapter4: Conclusion

This online quiz system provides facility to conduct online examination world wide. It saves time as it allows number of students to give the exam at a time and displays the results as the test gets over, so no need to wait for the result. It is automatically generated by the server. Administrator has a privilege to create, modify and delete the test papers and its particular questions. User can register, login and give the test with his specific id, and can see the results as well. The project was successfully designed and is tested for accuracy and quality. During this project we have accomplished all the objectives and the developed will be used in searching, retrieving and generating information for the concerned requests. The system is operated at a high level of efficiency and all the teachers and users associated with the system understands its advantages. The system solves the problem. It was intended to solve as requirements specifications.

Chapter 5: References

[1] Aggarwal, K. K, and Yogesh Singh. Software Engineering. 1st ed. New Delhi: New Age International, 2008. Print.

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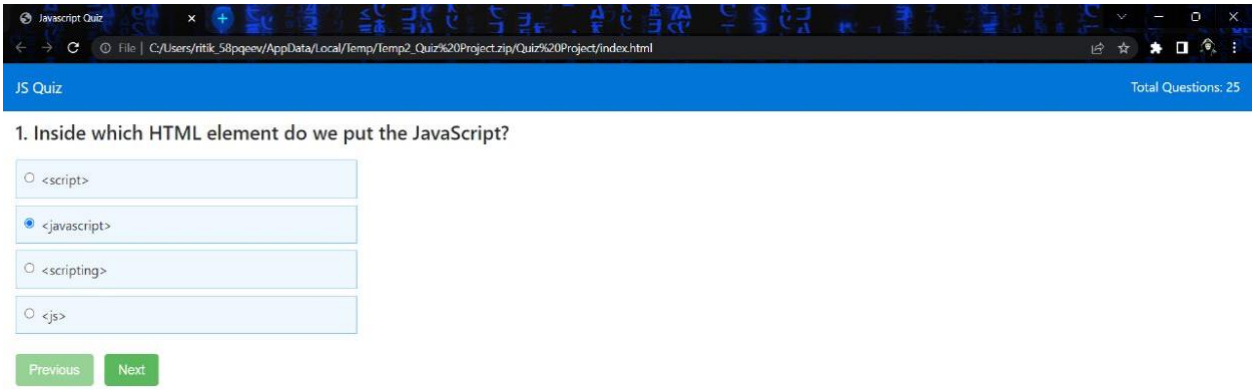
[3] Fei, Ming Ming, and Ma Yan. "The Online Examination System Of Distance Education". Applied Mechanics and Materials 411-414 (2013): 2901-2905. Web.

[4] "Online Examination Documentation | Test (Assessment) | Input/Output". Scribd. N.p., 2017. Web. 18 May 2017

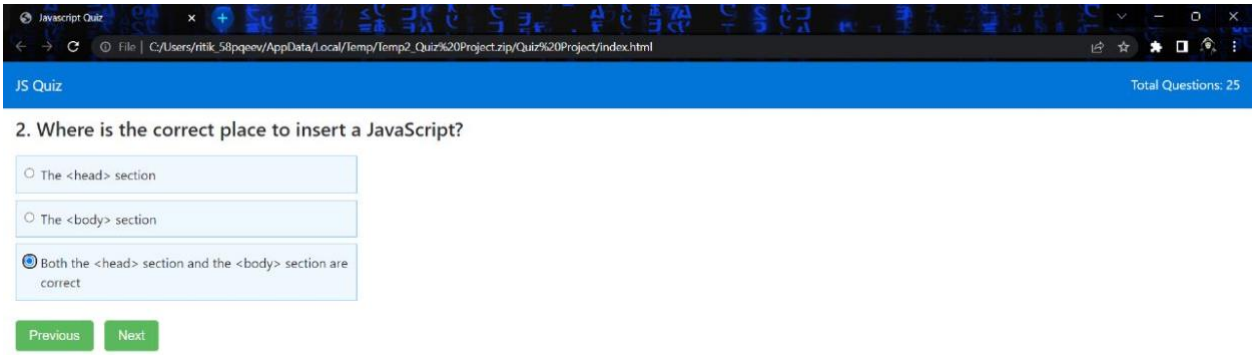
[5] Omari, Asem. "An Evaluation And Assessment System For Online MCQ's Exams". International Journal of Electronics and Electrical Engineering 1.3 (2013): 219-222. Web.

Chapter 6: Snapshots of Your project

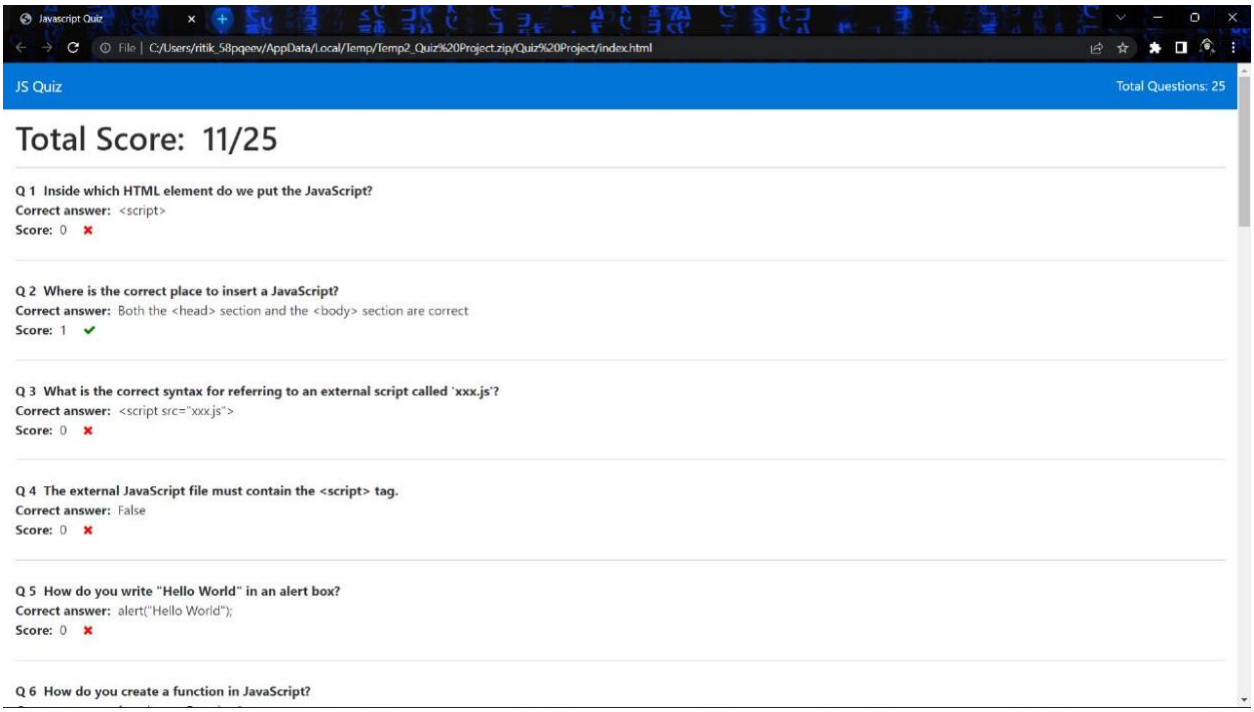
6.1 Front Page :



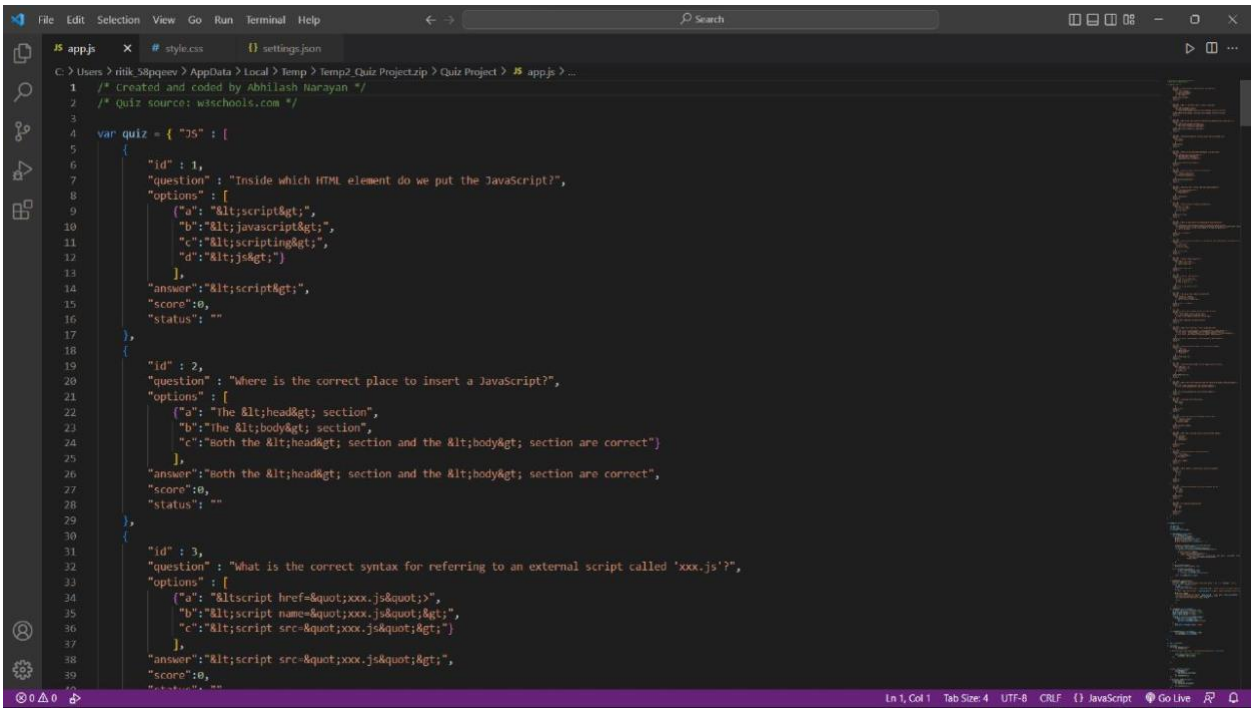
6.2 Questions:



6.3 final score:



6.4 VS code screenshot :



```
var quiz = { "JS" : [
	{
		"id" : 1,
		"question" : "Inside which HTML element do we put the JavaScript?",
		"options" : [
			{"a": "&lt;script&gt;",
			 "b":"&lt;javascript&gt;",
			 "c":"&lt;scripting&gt;",
			 "d":"&lt;js&gt;"}
			],
		"answer":"&lt;script&gt;",
		"score":0,
		"status": ""
	},
	{
		"id" : 2,
		"question" : "Where is the correct place to insert a JavaScript?",
		"options" : [
			{"a": "The &lt;head&gt; section",
			 "b":"The &lt;body&gt; section",
			 "c":"Both the &lt;head&gt; section and the &lt;body&gt; section are correct"}
			],
		"answer":"Both the &lt;head&gt; section and the &lt;body&gt; section are correct",
		"score":0,
		"status": ""
	},
	{
		"id" : 3,
		"question" : "What is the correct syntax for referring to an external script called 'xxx.js'?",
		"options" : [
			{"a": "&ltscript href=&quot;xxx.js&quot;>",
			 "b":"&lt;script name=&quot;xxx.js&quot;&gt;",
			 "c":"&lt;script src=&quot;xxx.js&quot;&gt;"}
			],
		"answer":"&lt;script src=&quot;xxx.js&quot;&gt;",
		"score":0,
		"status": ""
	},
	{
		"id" : 4,
		"question" : "The external JavaScript file must contain the &lt;script&gt; tag.",
		"options" : [
			{"a": "True",
			 "b":"False"
			}
			],
		"answer":"False",
		"score":0,
		"status": ""
	},
```

```
{
        "id" : 5,
        "question" : "How do you write &quot;Hello World&quot; in an alert box?",
        "options" : [
                {"a": "alertBox(&quot;Hello World&quot;);",
                 "b":"msg(&quot;Hello World&quot;);",
                 "c":"alert(&quot;Hello World&quot;);",
                 "d":"msgBox(&quot;Hello World&quot;);",
                }
                ],
        "answer":"alert(&quot;Hello World&quot;);",
        "score":0,
        "status": ""
},
{
        "id" : 6,
        "question" : "How do you create a function in JavaScript?",
        "options" : [
                {"a": "function myFunction()",
                 "b":"function:myFunction()",
                 "c":"function = myFunction()",
                }
                ],
        "answer":"function myFunction()",
        "score":0,
        "status": ""
},
{
        "id" : 7,
        "question" : "How do you call a function named &quot;myFunction&quot;?",
        "options" : [
                {"a": "call function myFunction()",
                 "b":"call myFunction()",
                 "c":"myFunction()",
                }
                ],
        "answer":"myFunction()",
        "score":0,
        "status": ""
},
{
        "id" : 8,
        "question" : "How to write an IF statement in JavaScript?",
        "options" : [
                {"a": "if i = 5 then",
                 "b":"if i == 5 then",
                 "c":"if (i == 5)",
                 "d":" if i = 5",
                }
                ],
        "answer":"if (i == 5)",
        "score":0,
        "status": ""
},
{
        "id" : 9,
```

```
		"question" : "Which of the following is a disadvantage of using JavaScript?",
		"options" : [
			{"a": "Client-side JavaScript does not allow the reading or writing of files.",
			 "b":"JavaScript can not be used for Networking applications because there is no such support available.",
			 "c":"JavaScript doesn't have any multithreading or multiprocess capabilities.",
			 "d":"All of the above."
			}
			],
		"answer":"All of the above.",
		"score":0,
		"status": ""
	},
	{
		"id" : 10,
		"question" : "How to write an IF statement for executing some code if &quot;i&quot; is NOT equal to 5?",
		"options" : [
			{"a": "if (i <> 5)",
			 "b":"if i <> 5",
			 "c":"if (i != 5)",
			 "d":"if i =! 5 then",
			}
			],
		"answer":"if (i != 5)",
		"score":0,
		"status": ""
	},
	{
		"id" : 11,
		"question" : "How does a WHILE loop start?",
		"options" : [
			{"a": "while i = 1 to 10",
			 "b":"while (i &lt;= 10; i++)",
			 "c":"while (i &lt;= 10)"
			}
			],
		"answer":"while (i &lt;= 10)",
		"score":0,
		"status": ""
	},
	{
		"id" : 12,
		"question" : "How does a FOR loop start?",
		"options" : [
			{"a": "for (i = 0; i &lt;= 5)",
			 "b":"for (i = 0; i &lt;= 5; i++)",
			 "c":"for i = 1 to 5",
			 "d":"for (i &lt;= 5; i++)"
			}
			],
		"answer":"for (i = 0; i &lt;= 5; i++)",
		"score":0,
		"status": ""
	},
	{
```

```
		"id" : 13,
		"question" : "How can you add a comment in a JavaScript?",
		"options" : [
			{"a": "//This is a comment",
			 "b":"&sbquo;This is a comment",
			 "c":"&lt;!--This is a comment--&gt;"
			}
			],
		"answer":"//This is a comment",
		"score":0,
		"status": ""
	},
	{
		"id" : 14,
		"question" : "How to insert a comment that has more than one line?",
		"options" : [
			{"a": "/This comment has more than one line/",
			 "b":"//This comment has more than one line//",
			 "c":"&lt;!--This comment has more than one line--&gt;"
			}
			],
		"answer":"/This comment has more than one line/",
		"score":0,
		"status": ""
	},
	{
		"id" : 15,
		"question" : "What is the correct way to write a JavaScript array?",
		"options" : [
			{"a": "var colors = (1:&quot;red&quot;, 2:&quot;green&quot;,
3:&quot;blue&quot;)",
			 "b":"var colors = [&quot;red&quot;, &quot;green&quot;, &quot;blue&quot;]",
			 "c":"var colors = 1 = (&quot;red&quot;), 2 = (&quot;green&quot;), 3 =
(&quot;blue&quot;)",
			 "d":"var colors = &quot;red&quot;, &quot;green&quot;, &quot;blue&quot;"
			}
			],
		"answer":"var colors = [&quot;red&quot;, &quot;green&quot;, &quot;blue&quot;]",
		"score":0,
		"status": ""
	},
	{
		"id" : 16,
		"question" : "How do you round the number 7.25, to the nearest integer?",
		"options" : [
			{"a": "rnd(7.25)",
			 "b":"Math.round(7.25)",
			 "c":"Math.rnd(7.25)",
			 "d":"round(7.25)"
			}
			],
		"answer":"Math.round(7.25)",
		"score":0,
		"status": ""
	},
	{
```

```
		"id" : 17,
		"question" : "How do you find the number with the highest value of x and y?",
		"options" : [
			{"a": "Math.max(x, y)",
			 "b":"Math.ceil(x, y)",
			 "c":"top(x, y)",
			 "d":"ceil(x, y)"
			}
			],
		"answer":"Math.max(x, y)",
		"score":0,
		"status": ""
	},
	{
		"id" : 18,
		"question" : "What is the correct JavaScript syntax for opening a new window called &amp;quot;w2&amp;quot;?",
		"options" : [
			{"a": "w2 = window.new(&amp;quot;http://www.w3schools.com&amp;quot;);",
			 "b":"w2 = window.open(&amp;quot;http://www.w3schools.com&amp;quot;);"

			}
			],
		"answer":"w2 = window.open(&amp;quot;http://www.w3schools.com&amp;quot;);",
		"score":0,
		"status": ""
	},
	{
		"id" : 19,
		"question" : "JavaScript is the same as Java.",
		"options" : [
			{"a": "true",
			 "b":"false"

			}
			],
		"answer":"false",
		"score":0,
		"status": ""
	},
	{
		"id" : 20,
		"question" : "How can you detect the client&amp;rsquo;s browser name?",
		"options" : [
			{"a": "navigator.appName",
			 "b":"browser.name",
			 "c":"client.navName"
			}
			],
		"answer":"navigator.appName",
		"score":0,
		"status": ""
	},
	{
		"id" : 21,
		"question" : "Which event occurs when the user clicks on an HTML element?",
```

```
        "options" : [
                {"a": "onchange",
                 "b":"onclick",
                 "c":"onmouseclick",
                 "d":"onmouseover"
                }
                ],
        "answer":"onclick",
        "score":0,
        "status": ""
},
{
        "id" : 22,
        "question" : "How do you declare a JavaScript variable?",
        "options" : [
                {"a": "var carName;",
                 "b":"variable carName;",
                 "c":"v carName;"
                }
                ],
        "answer":"var carName;",
        "score":0,
        "status": ""
},
{
        "id" : 23,
        "question" : "Which operator is used to assign a value to a variable?",
        "options" : [
                {"a": "*",
                 "b":"-",
                 "c":"=",
                 "d":"x"
                }
                ],
        "answer":"=",
        "score":0,
        "status": ""
},
{
        "id" : 24,
        "question" : "What will the following code return: Boolean(10 &gt; 9)",
        "options" : [
                {"a": "NaN",
                 "b":"false",
                 "c":"true"
                }
                ],
        "answer":"true",
        "score":0,
        "status": ""
},
{
        "id" : 25,
        "question" : "Is JavaScript case-sensitive?",
        "options" : [
                {"a": "No",
```

```
                    "b":"Yes"
                }
                ],
            "answer":"Yes",
            "score":0,
            "status": ""
        }
        ]
}


var quizApp = function() {

        this.score = 0;
        this.qno = 1;
        this.currentque = 0;
        var totalque = quiz.JS.length;


        this.displayQuiz = function(cque) {
            this.currentque = cque;
            if(this.currentque <  totalque) {
                $("#tque").html(totalque);
                $("#previous").attr("disabled", false);
                $("#next").attr("disabled", false);
                $("#qid").html(quiz.JS[this.currentque].id + '.');


                $("#question").html(quiz.JS[this.currentque].question);
                 $("#question-options").html("");
                for (var key in quiz.JS[this.currentque].options[0]) {
                  if (quiz.JS[this.currentque].options[0].hasOwnProperty(key)) {

                        $("#question-options").append(
                            "<div class='form-check option-block'>" +
                            "<label class='form-check-label'>" +
                                                "<input type='radio' class='form-check-input'
name='option'   id='q"+key+"' value='" + quiz.JS[this.currentque].options[0][key] + "'><span
id='optionval'>" +
                                                                quiz.JS[this.currentque].options[0][key]
+
                                                            "</span></label>"
                        );
                  }
                }
            }
            if(this.currentque <= 0) {
                $("#previous").attr("disabled", true);
            }
            if(this.currentque >= totalque) {
                        $('#next').attr('disabled', true);
                        for(var i = 0; i < totalque; i++) {
                            this.score = this.score + quiz.JS[i].score;
                        }
                return this.showResult(this.score);
```

```
		}
	}

	this.showResult = function(scr) {
		$("#result").addClass('result');
		$("#result").html("<h1 class='res-header'>Total Score:  " + scr  + '/' + totalque +
"</h1>");
		for(var j = 0; j < totalque; j++) {
			var res;
			if(quiz.JS[j].score == 0) {
					res = '<span class="wrong">' + quiz.JS[j].score + '</span><i
class="fa fa-remove c-wrong"></i>';
			} else {
				res = '<span class="correct">' + quiz.JS[j].score + '</span><i class="fa fa-
check c-correct"></i>';
			}
			$("#result").append(
			'<div class="result-question"><span>Q ' + quiz.JS[j].id + '</span>  ' +
quiz.JS[j].question + '</div>' +
			'<div><b>Correct answer:</b>  ' + quiz.JS[j].answer + '</div>' +
			'<div class="last-row"><b>Score:</b>  ' + res +

			'</div>'

			);

		}
	}

	this.checkAnswer = function(option) {
		var answer = quiz.JS[this.currentque].answer;
		option = option.replace(/\</g,"&lt;")   //for <
		option = option.replace(/\>/g,"&gt;")   //for >
		option = option.replace(/"/g, "&quot;")

		if(option ==  quiz.JS[this.currentque].answer) {
			if(quiz.JS[this.currentque].score == "") {
				quiz.JS[this.currentque].score = 1;
				quiz.JS[this.currentque].status = "correct";
		}
		} else {
			quiz.JS[this.currentque].status = "wrong";
		}

	}

	this.changeQuestion = function(cque) {
			this.currentque = this.currentque + cque;
			this.displayQuiz(this.currentque);

	}

}


var jsq = new quizApp();
```

```
var selectedopt;
	$(document).ready(function() {
			jsq.displayQuiz(0);

	$('#question-options').on('change', 'input[type=radio][name=option]', function(e) {

			//var radio = $(this).find('input:radio');
			$(this).prop("checked", true);
				selectedopt = $(this).val();
		});



	});




	$('#next').click(function(e) {
			e.preventDefault();
			if(selectedopt) {
				jsq.checkAnswer(selectedopt);
			}
			jsq.changeQuestion(1);
	});

	$('#previous').click(function(e) {
		e.preventDefault();
		if(selectedopt) {
			jsq.checkAnswer(selectedopt);
		}
			jsq.changeQuestion(-1);
	});
```