

Online Test Application

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

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Class : MS FSD APRIL 2022 Cohort 1

Concepts used to develop Sporty shoes application :

1. Angular Framework
2. HTML
3. CSS
4. Javascript

Links to the GitHub repository to verify the project completion is :
<https://github.com/khushabupatil20/OnlineTestApplication>

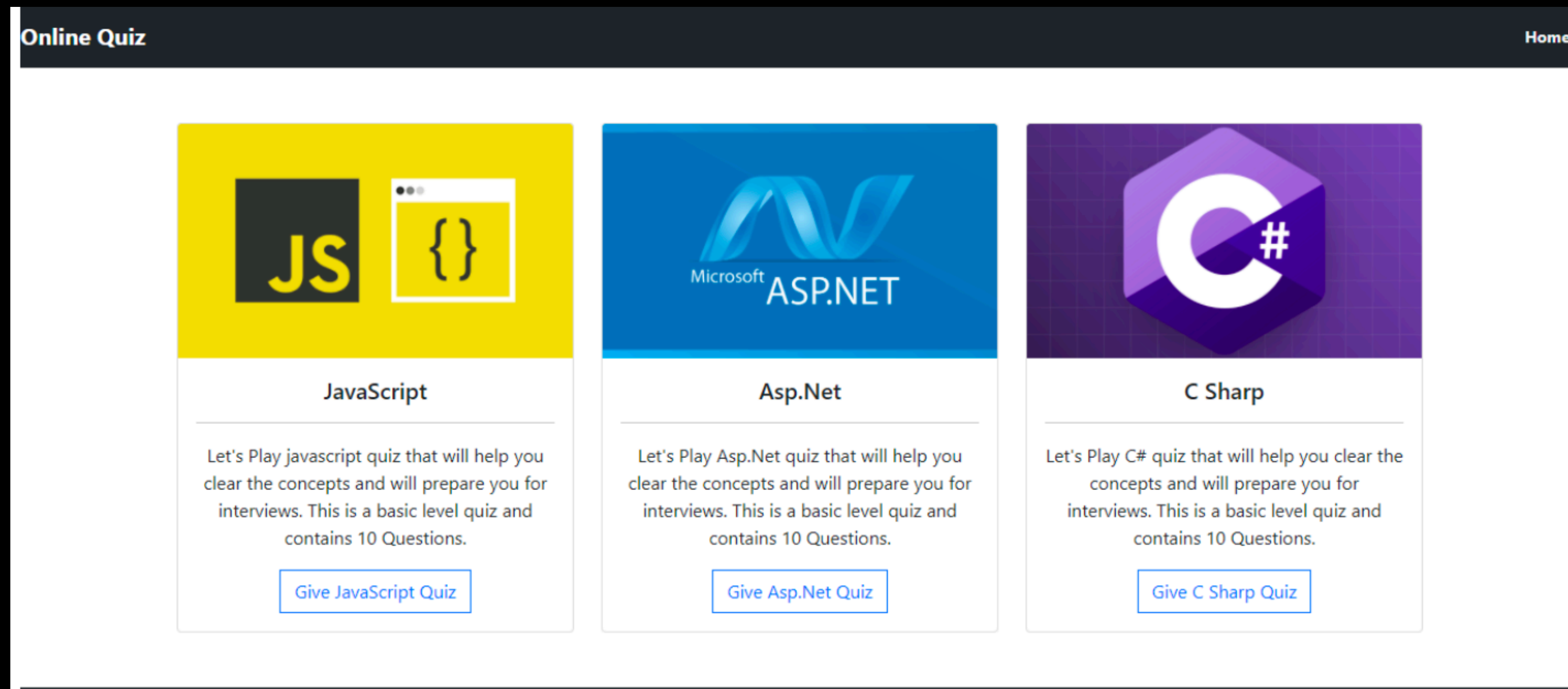
Screenshots of Online Test Application

Online Test Application

Home Page

Home Page Contains Quiz options user can take: (There are three quiz options – Javascript, Asp.Net and C#)
The Quiz Names and Description are fetched dynamically using JSON data (Containing Questions and Answers) and Angular Framework.

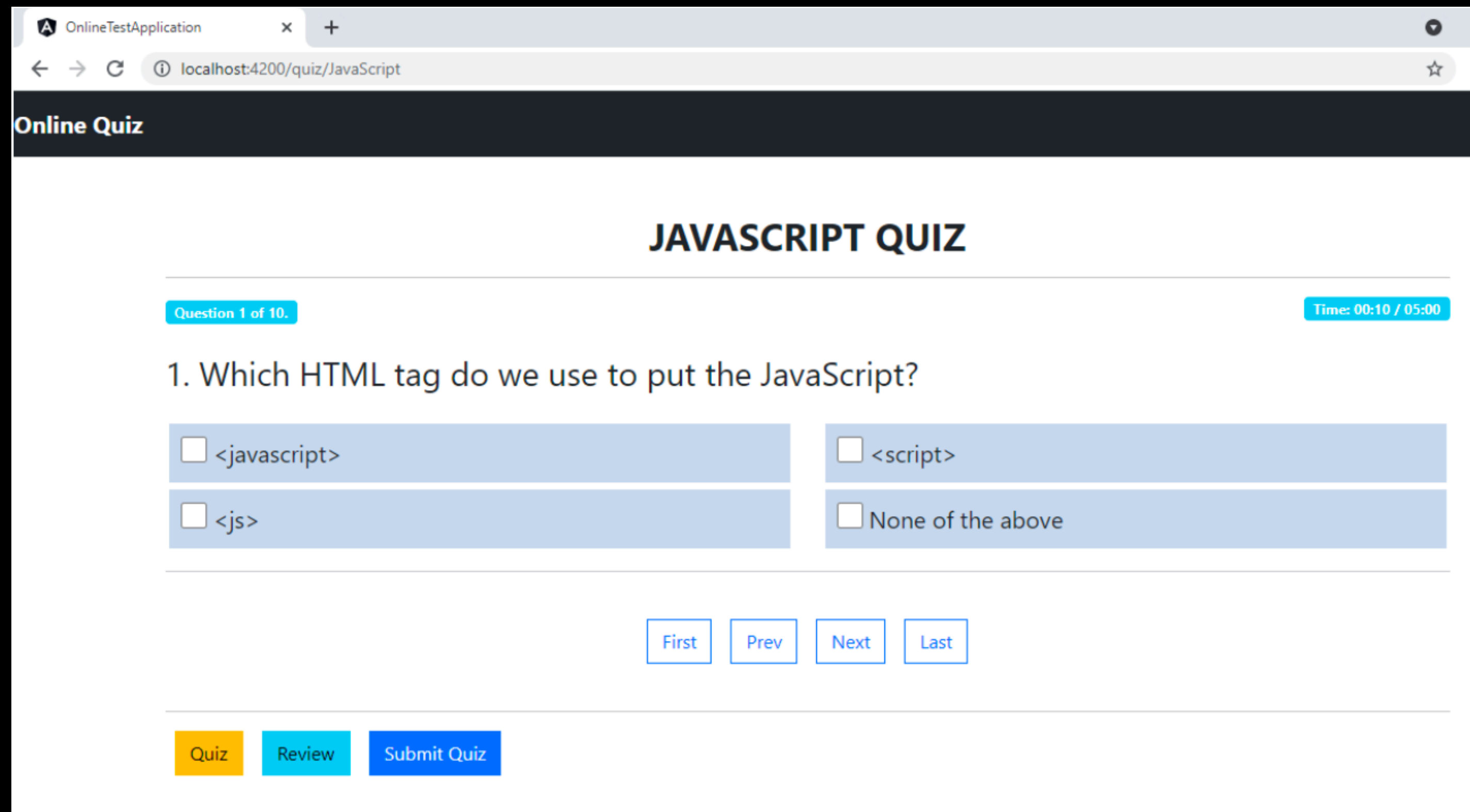
When User Selects JavaScript Quiz, they are redirected to JavaScript quiz page where they can see all the questions with their options rendered from JSON file.



Javascript Quiz Page

User can see all the questions with their options rendered from JSON file.

User can navigate through questions using navigation links (First, Last , Prev and Next). There is also timer for quiz, after completion of allotted time the quiz submits automatically or User can submit their quiz before time using Submit Quiz button.



The screenshot shows a web browser window with the address bar displaying 'localhost:4200/quiz/JavaScript'. The page has a dark header with 'Online Quiz' and a main title 'JAVASCRIPT QUIZ'. Below the title, there's a progress indicator 'Question 1 of 10.' and a timer 'Time: 00:10 / 05:00'. The question text is '1. Which HTML tag do we use to put the JavaScript?'. There are four radio button options: '<javascript>', '<script>', '<js>', and 'None of the above'. At the bottom, there are navigation buttons 'First', 'Prev', 'Next', and 'Last', and a footer with 'Quiz', 'Review', and 'Submit Quiz' buttons.

Online Quiz

JAVASCRIPT QUIZ

Question 1 of 10. Time: 00:10 / 05:00

1. Which HTML tag do we use to put the JavaScript?

☐ <javascript> ☐ <script>

☐ <js> ☐ None of the above

First Prev Next Last

Quiz Review Submit Quiz

Javascript Quiz Page

OnlineTestApplication

localhost:4200/quiz/JavaScript

Online Quiz

JAVASCRIPT QUIZ

Question 2 of 10.

Time: 02:11 / 05:00

2. Which built-in method calls a function for each element in the array?

<input type="checkbox"/> while()	<input type="checkbox"/> loop
<input checked="" type="checkbox"/> forEach	<input type="checkbox"/> takeUntil

First

Prev

Next

Last

Quiz

Review

Submit Quiz

Javascript Quiz Page

User can Review All the Answered and Not Answered Questions by Clicking on Review Nav Link.
Also user can go to specific question to answer by clicking on any of the Question Blocks.

Online Quiz**Home**

JAVASCRIPT QUIZ

1. Answered	2. Answered	3. Answered
4. Answered	5. Not Answered	6. Not Answered
7. Not Answered	8. Not Answered	9. Not Answered
10. Answered		

Quiz

Review

Submit Quiz

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When The user clicks on Submit button, they can see their result along with Questions and Options they have selected:

JAVASCRIPT QUIZ

Quiz Result:

Your Score is: 6 Out of 10

1. Which HTML tag do we use to put the JavaScript?

☐ <javascript>

☐ <js>

☒ <script>

☐ None of the above

Your answer is correct.

2. Which built-in method calls a function for each element in the array?

☐ while()

☒ forEach

☐ loop

☐ takeUntil

Your answer is correct.

3. What is the difference between let and var?

☒ let has local scope

☐ var is new data type

☐ Both are same

☐ let consumes more cpu and ram

Your answer is correct.

4. What is TypeScript?

☒ A Language based on Javascript

☐ A DataType Collection of Javascript

☐ script that runs on browser

☐ None of the above

Your answer is correct.

5. Which of the following is right syntax for arrow function?

☐ a -> { return b; }

☐ x <- x + 5;

☐ x <= x + y;

☒ x => x + 5;

Your answer is correct.

6. Which new ES6 syntax helps with formatting output text - mixing variables with string literals, for example.

☐ Generator Functions

☐ Template Strings

☐ Arrow Functions

☐ Set Data Structure

Your answer is wrong.

7. Which ES6 feature helps in merging of a number of changed properties into an existing object?

☐ Class syntax

☐ map data structure

☐ Object.assign()

☐ Array.includes(obj);

Your answer is wrong.

8. What is the difference between == and === ?

☐ === throws syntax error

☐ === is reference type check only

☐ == checks values only, === checks types as well

☐ Both are same

Your answer is wrong.

9. Which of the following is NOT the method of an Array?

☐ .map()

☐ .subscribe()

☐ .includes()

☐ .flatMap()

Your answer is wrong.

10. What will be the output of the following code: ['a', 'b', 'c'].fill(7, 1, 2);?

☒ ['a', 7, 'c']

☐ ['a', 'b', 'c']

☐ ['a', 7, 7, 'b', 'c']

☐ [7, 7, 'c']

Your answer is correct.

You may close this window now.

khushabu Patil

Asp.Net Quiz Page

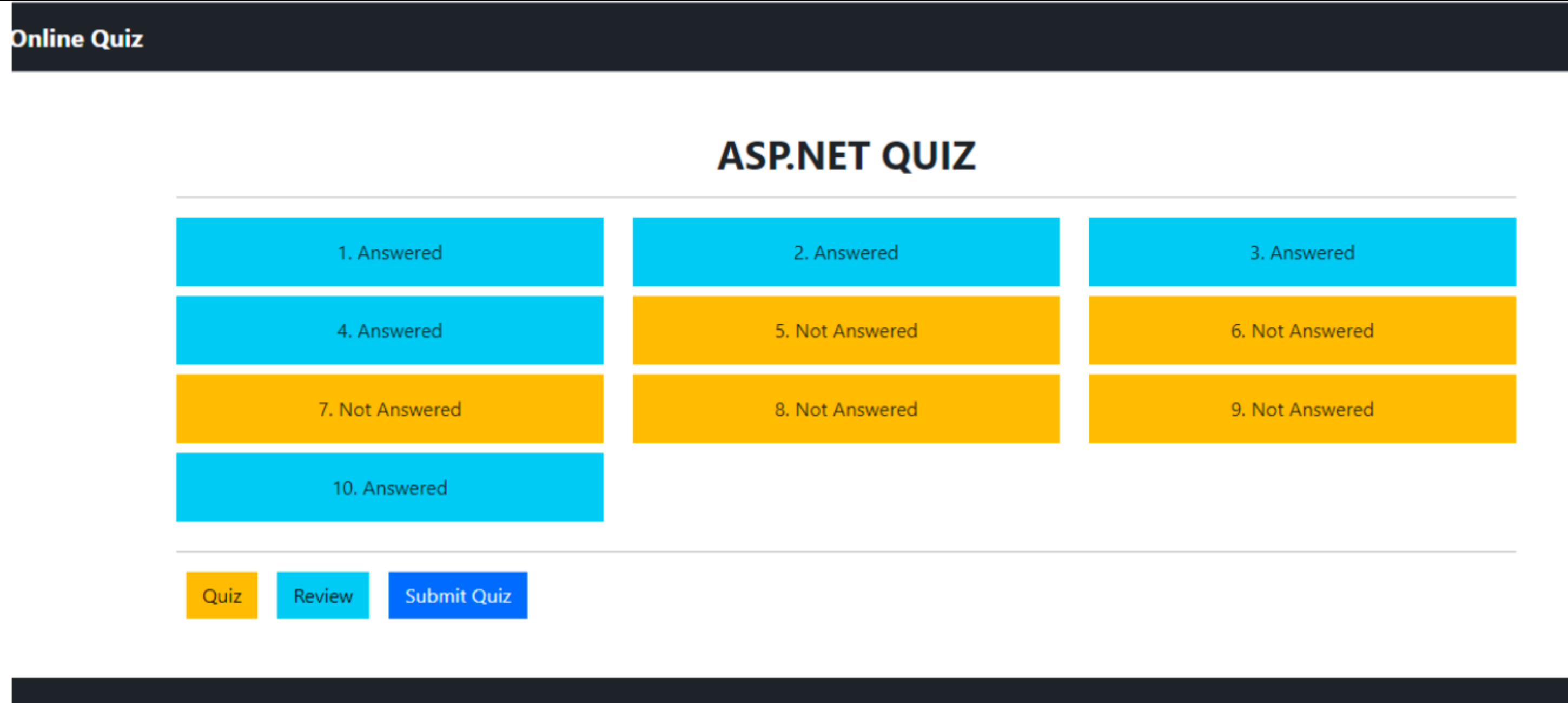
When User Selects Asp.Net Quiz, they are redirected to Asp.Net quiz page where they can see all the questions with their options rendered from JSON file.

User can see same features available in Javascript quiz

The screenshot shows a web browser window with the address bar displaying 'localhost:4200/quiz/Asp.Net'. The page has a dark header with the text 'Online Quiz'. Below the header, the main content area is titled 'ASP.NET QUIZ'. At the top of the question area, it says 'Question 1 of 10.' on the left and 'Time: 01:27 / 05:00' on the right. The question text is '1. ASP.NET webform separates the HTML output from program logic using a feature named as'. There are four radio button options: 'Exception', 'Code-behind', 'Code-front' (which is selected), and 'None of the above'. Below the options, there are four buttons: 'First', 'Prev', 'Next', and 'Last'. At the bottom of the page, there are three buttons: 'Quiz' (orange), 'Review' (teal), and 'Submit Quiz' (blue).

Asp.Net Quiz Page

User can Review All the Answered and Not Answered Questions by Clicking on Review Nav Link.
Also user can go to specific question to answer by clicking on any of the Question Blocks.



When The user clicks on Submit button, they can see their result along with Questions and Options they have selected:

ASP.NET QUIZ

Quiz Result:

Your Score is: 3 Out of 10

1. ASP.NET webform separates the HTML output from program logic using a feature named as

☐ Exception

☒ Code-front

☐ Code-behind

☐ None of the above

Your answer is wrong.

2. The feature in ASP.NET 2.0 that is used to fire a normal postback to a different page in the application is called

☐ Theme

☒ Cross Page Posting

☐ Code-front

☐ None of the above

Your answer is correct.

3. What class does the ASP.NET Web Form class inherit from by default?

☒ System.Web.UI.Page

☐ System.Web.UI.Page

☐ System.Web.UI.Form

☐ System.Web.Form

Your answer is correct.

4. What does MVC stand for?

☒ Model View Controller

☐ Microsoft Visual Core

☐ Maximum Virtual Control

☐ None of the above

Your answer is correct.

5. Which of the following does NOT require type casting?

☐ Session

☐ ViewData

☐ TempData

☐ ViewBag

Your answer is wrong.

6. Which is the correct order of Page life-cycle in asp.net webform?

☐ Init, PreRender, Load

☐ Init, Load, PreRender

☐ Load, PreRender, Init

☐ None of the above

Your answer is wrong.

7. Which of these data source controls do not implement caching?

☐ ObjectDataSource

☐ SqlDataSource

☐ LinqDataSource

☐ XmlDataSource

Your answer is wrong.

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☐ ObjectDataSource

☐ SqlDataSource

☐ LinqDataSource

☐ XmlDataSource

Your answer is wrong.

8. Which tag asp:Label control by default renders to?

☐ div

☐ body

☐ span

☐ label

Your answer is wrong.

9. Which method do you use to explicitly kill a user's session?

☒ Session.Terminate()

☐ Session.Abandon()

☐ Session.Timeout()

☐ Session.Kill()

Your answer is wrong.

10. Which of the following object is ideal for keeping data alive for a single request?

☐ HttpContext

☒ Cookies

☐ Session

☐ SqlServer

Your answer is wrong.

You may close this window now.

C#(Sharp) Quiz Page

When User Selects C# Quiz, they are redirected to C# quiz page where they can see all the questions with their options rendered from JSON file. User can see same features available in JavaScript and asp.net quiz

Online Quiz

C# AND .NET FRAMEWORK

Question 1 of 10.

Time: 00:48 / 05:00

1. Which of the following assemblies can be stored in Global Assembly Cache?

☒ Private Assemblies

☐ Public Assemblies

☐ Friend Assemblies

☐ Shared Assemblies

First

Prev

Next

Last

Quiz

Review

Submit Quiz

C#(Sharp) Quiz Page

User can Review All the Answered and Not Answered Questions by Clicking on Review Nav Link.
Also user can go to specific question to answer by clicking on any of the Question Blocks.

Online Quiz

C# AND .NET FRAMEWORK

1. Answered

2. Answered

3. Answered

4. Not Answered

5. Not Answered

6. Not Answered

7. Not Answered

8. Not Answered

9. Not Answered

10. Answered

Quiz

Review

Submit Quiz

When The user clicks on Submit button, they can see their result along with Questions and Options they have selected:

C# AND .NET FRAMEWORK

Quiz Result:

Your Score is: 4 Out of 10

1. Which of the following assemblies can be stored in Global Assembly Cache?

☒ Private Assemblies

☐ Public Assemblies

☐ Friend Assemblies

☐ Shared Assemblies

Your answer is wrong.

2. Which of the following .NET components can be used to remove unused references from the managed heap?

☐ Language Infrastructure

☒ Garbage Collector

☐ CTS

☐ CLR

☐ Class Loader

Your answer is correct.

3. Which of the following utilities can be used to compile managed assemblies into processor-specific native code?

☐ gacutil

☐ dumpbin

☒ ngen

☐ ildasm

Your answer is correct.

3. Which of the following utilities can be used to compile managed assemblies into processor-specific native code?

☐ gacutil

☐ dumpbin

☒ ngen

☐ ildasm

Your answer is correct.

4. Which of the following is NOT an Arithmetic operator in C#.NET?

☐ ** (Double Star)

☐ / (Divide)

☐ + (Plus)

☐ % (Modulo)

Your answer is wrong.

5. Which of the following statements is correct about an interface used in C#.NET?

☐ If a class implements an interface partially, then it should be an abstract class.

☐ An interface can contain static methods.

☐ A class cannot implement an interface partially.

☐ An interface can contain static data.

Your answer is wrong.

6. What does the term immutable means in term of string objects?

☐ We can modify characters included in the string

☐ We cannot perform various operation of comparison, inserting, appending etc

☒ We cannot modify characters contained in the string

☐ None of the above

Your answer is correct.

Thank you