## Online Test Project

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Repository URL: https://github.com/nikhilrode/OnlineTestProjcet.git Date of Submission 28/06/2023

**Technologies used:** 

Html, CSS, JavaScript, JSON

Html

Index.html

```
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Java Quiz</title>
   <link rel="stylesheet" href="css/app.css">
   <link href="https://fonts.googleapis.com/css2?family=Lato:wght@300;400&display=swap"</pre>
rel="stylesheet">
</head>
<body>
   <div class="container">
        <div id="home" class="flex-center flex-column">
            <h1>Java Quiz</h1>
            <a class="btn" href="html/quiz.html">Start</a>
        </div>
   </div>
</body>
</html>
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
</head>
<body>
</body>
</html>
```

```
quiz.html
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8" />
 <meta name="viewport" content="width=device-width, initial-scale=1.0" />
 <meta http-equiv="X-UA-Compatible" content="ie=edge" />
 <title>Java Quiz</title>
 <link href="https://fonts.googleapis.com/css2?family=Lato:wght@300;400&display=swap"</pre>
rel="stylesheet">
 <link rel="stylesheet" href="../css/app.css" />
 <link rel="stylesheet" href="../css/quiz.css" />
</head>
<body>
 <div class="container">
  <div id="quiz" class="justify-center flex-column">
    <div id="hud">
      <div id="hud-item">
       Ouestion
       <h1 class="hud-main-text" id="questionCounter"></h1>
      </div>
      <div id="hud-item">
       Score
       <h1 class="hud-main-text" id="score">
       </h1>
      </div>
    </div>
    <h2 id="question">What is the answer to this questions?</h2>
    <div class="choice-container">
      A
      Choice 1
    </div>
    <div class="choice-container">
      B
      Choice 2
    </div>
    <div class="choice-container">
      C
      Choice 3
    </div>
    <div class="choice-container">
      D
      Choice 4
    </div>
   </div>
 </div>
 <script src="../script/quiz.js"></script>
```

```
</body>
end.html
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8" />
   <meta name="viewport" content="width=device-width, initial-scale=1.0" />
   <meta http-equiv="X-UA-Compatible" content="ie=edge" />
   <title>Java Quiz</title>
   <link href="https://fonts.googleapis.com/css2?family=Lato:wght@300;400&display=swap"</pre>
rel="stylesheet">
   <link rel="stylesheet" href="../css/app.css" />
<body>
   <div class="container">
        <div id="end" class="flex-center flex-column">
            <h1 id="finalScore"></h1>
            <a class="btn" href="quiz.html">Start Again</a>
            <a class="btn" href="/">Back to Home</a>
        </div>
   </div>
   <script src="../script/end.js"></script>
</body>
```

## app.css

```
:root{
  background: rgb(97, 103, 15);
background: linear-gradient(90deg, rgb(232, 180, 10) 100%, rgba(0,212,255,1)
100%, rgb(36, 22, 0) 100%);
    font-size: 58%;
*{
    box-sizing: border-box;
    font-family: 'Lato', sans-serif;
    margin: 0;
    padding: 0;
    color: #333;
    font-weight: 400;
    color: white;
.container{
  max-width: 1140px;
    margin: 0 auto;
h1,
h2,
h3,
h4 {
    margin-bottom: 1rem;
h1{
    font-size: 6rem;
    color: rgb(94, 2, 2);
    margin-bottom: 5rem;
h1 > span{
    font-size: 2.4rem;
    font-weight: 500;
h2{
    font-size: 4.2rem;
    margin-bottom: 4rem;
    font-weight: 700;
h3{
    font-size: 2.8rem;
    font-weight: 500;
.container{
 width: 100vw;
 height: 90vh;
 display: flex;
```

justify-content: center;

```
align-items: center;
max-width: 80rem;
.container >*{
   width: 100%;
.flex-column {
   display: flex;
   flex-direction: column;
 .flex-center {
   justify-content: center;
   align-items: center;
 .justify-center {
   justify-content: center;
 .text-center {
   text-align: center;
 .hidden {
   display: none;
  .btn {
   font-size: 2rem;
   padding: 1rem 0;
   width: 30rem;
   text-align: center;
   border: 0.1rem solid #bef80e;
   margin-bottom: 2.5rem;
   text-decoration: none;
   color: rgb(34, 16, 228);
   background-color:#22e622;
   border-radius: 15px;
   font-weight: 400;
 .btn:hover {
   cursor: pointer;
   box-shadow: 0 0.4rem 1.4rem 0 rgba(86, 185, 235, 0.5);
   transform: translateY(-0.1rem);
   transition: transform 150ms;
 .btn[disabled]:hover {
   cursor: not-allowed;
   box-shadow: none;
   transform: none;
  }
```

```
form {
  width: 100%;
  display: flex;
  flex-direction: column;
  align-items: center;
}

input {
  color:#e67e22;
  margin-bottom: 2.5rem;
  width: 30rem;
  padding: 1.2rem;
  font-size: 1.8rem;
  border: none;
  box-shadow: 0 0.1rem 1.4rem 0 rgba(235, 133, 86, 0.5);
}

input::placeholder {
  color: #aaa;
}
```

## quiz.css

```
font-family: 'Lato',sans-serif;
 word-spacing: 2.5px;
 font-weight: 400;
 letter-spacing: 1.5px;
h2{
 font-weight: 400;
 color: black;
.container{
 max-width: 1140px;
   margin: 0 auto;
.choice-container {
   display: flex;
   margin-bottom: 1.5rem;
   width: 100%;
   font-size: 1.8rem;
   border: 0.1rem solid rgb(86, 165, 235, 0.25);
   background-color: black;
   border-radius: 15px;
  .choice-container:hover {
   cursor: pointer;
   box-shadow: 0 0.4rem 1.4rem 0 rgba(104, 50, 210, 0.5);
   transform: translateY(-0.1rem);
   transition: transform 150ms;
```

```
.choice-prefix {
  padding: 1.5rem 2.5rem;
 background-color: #e67e22;
 color: rgb(49, 21, 232);
 border-top-left-radius: 15px;
 border-bottom-left-radius: 15px;
.choice-text {
 padding: 1.5rem;
 width: 100%;
.correct {
 background-color: #4e7e8a;
.incorrect {
 background-color: #801336;
#hud {
 display: flex;
 justify-content: space-between;
 text-transform: uppercase;
.hud-prefix {
 text-align: center;
 font-size: 2rem;
 color: rgb(49, 21, 232);
.hud-main-text {
 text-align: center;
 color:black;
```

```
Javascript:
```

quiz.js

```
const question = document.getElementById("question");
const choices = Array.from(document.getElementsByClassName("choice-text"));
const questionCounterText = document.getElementById("questionCounter");
const scoreText = document.getElementById("score");
let currentQuestion = {};
let acceptingAnswers = false;
let score = 0;
let questionCounter = 0;
let availableQuesions = [];
let questions = [];
fetch("../json/questions.json")
  .then(res => {
    return res.json();
 })
  .then(loadedQuestions => {
    console.log(loadedQuestions);
   questions = loadedQuestions;
   startQuiz();
  });
const CORRECT BONUS = 10;
const MAX_QUESTIONS = 5;
startQuiz = () => {
 questionCounter = 0;
 score = 0;
 availableQuesions = [...questions];
  getNewQuestion();
};
getNewQuestion = () => {
 if (availableQuesions.length === 0 || questionCounter >= MAX_QUESTIONS) {
   localStorage.setItem('mostRecentScore', score);
   return window.location.assign("../html/end.html");
  questionCounter++;
  questionCounterText.innerText = `${questionCounter}/${MAX_QUESTIONS}`;
  const questionIndex = Math.floor(Math.random() * availableQuesions.length);
  currentQuestion = availableQuesions[questionIndex];
  question.innerText = currentQuestion.question;
  choices.forEach(choice => {
   const number = choice.dataset["number"];
   choice.innerText = currentQuestion["choice" + number];
  });
  availableQuesions.splice(questionIndex, 1);
  acceptingAnswers = true;
```

```
choices.forEach(choice => {
  choice.addEventListener("click", e => {
    if (!acceptingAnswers) return;
   acceptingAnswers = false;
    const selectedChoice = e.target;
    const selectedAnswer = selectedChoice.dataset["number"];
   const classToApply =
      selectedAnswer == currentQuestion.answer ? "correct" : "incorrect";
   if (classToApply === "correct") {
      incrementScore(CORRECT_BONUS);
    selectedChoice.parentElement.classList.add(classToApply);
   setTimeout(() => {
     selectedChoice.parentElement.classList.remove(classToApply);
     getNewQuestion();
   }, 400);
 });
});
incrementScore = num => {
 score += num;
 scoreText.innerText = score;
};
end.js
const username = document.getElementById('username');
const saveScoreBtn = document.getElementById('saveScoreBtn');
const finalScore = document.getElementById('finalScore');
const mostRecentScore = localStorage.getItem('mostRecentScore');
finalScore.innerText = "Total Score is: "+mostRecentScore+ " points!";
username.addEventListener('keyup', () => {
   saveScoreBtn.disabled = !username.value;
});
saveHighScore = (e) => {
   e.preventDefault();
```

## **JSON**

questions.json

```
"question": "Which component is used to compile, debug and execute the java programs?",
  "choice1": "JRE",
  "choice2": "JIT",
 "choice3": "JDK",
  "choice4": "JVM",
  "answer": 3
},
{
  "question": "Which one of the following is not a Java feature?",
  "choice1": "Object-oriented",
  "choice2": "Use of pointers",
 "choice3": "Portable",
 "choice4": "Dynamic and Extensible",
  "answer": 2
},
{
  "question": "Which of these cannot be used for a variable name in Java",
  "choice1": "identifier & keyword",
  "choice2": "identifier",
  "choice3": "keyword",
  "choice4": "none of the mentioned",
  "answer": 3
},
  "question": "Which of the following is not an OOPS concept in Java?",
  "choice1": "Polymorphism",
 "choice2": "Inheritance",
 "choice3": "Compilation",
  "choice4": "Encapsulation",
  "answer": 3
},
{
  "question": "What is not the use of "this" keyword in Java?",
  "choice1": "Referring to the instance variable when a local variable has the same name",
  "choice2": "Passing itself to the method of the same class",
  "choice3": "Passing itself to another method",
  "choice4": "Calling another constructor in constructor chaining",
  "answer": 2
}
```



