Quiz Project

submission By Dinesh Raut

Repository URL: https://github.com/Dineshraut1903/Online-quiz-application.git

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Technologies used:

Html, CSS, JavaScript, JSON

Html

Index.html

```
<!DOCTYPE html>
<html lang="en">

<head>
    <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"
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

```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"
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">
          <p class="hud-prefix">
            Question
          </p>
          <h1 class="hud-main-text" id="questionCounter"></h1>
</div>
        <div id="hud-item">
          <p class="hud-prefix">
            Score
          </p>
          <h1 class="hud-main-text" id="score">
            0
          </h1>
        </div>
      </div>

      <h2 id="question">What is the answer to this questions?</h2>
      <div class="choice-container">
        <p class="choice-prefix">A</p>
        <p class="choice-text" data-number="1">Choice 1</p>
</div>
      <div class="choice-container">
        <p class="choice-prefix">B</p>
        <p class="choice-text" data-number="2">Choice 2</p>
</div>
      <div class="choice-container">
        <p class="choice-prefix">C</p>
        <p class="choice-text" data-number="3">Choice 3</p>
</div>
      <div class="choice-container">
        <p class="choice-prefix">D</p>
        <p class="choice-text" data-number="4">Choice 4</p>
      </div>
    </div>
  </div>
  <script src="../script/quiz.js"></script>
```

```
</body>
</html>
```

end.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"
rel="stylesheet">
    <link rel="stylesheet" href="../css/app.css" />
</head>

<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>
</html>
```

CSS

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();
};
```

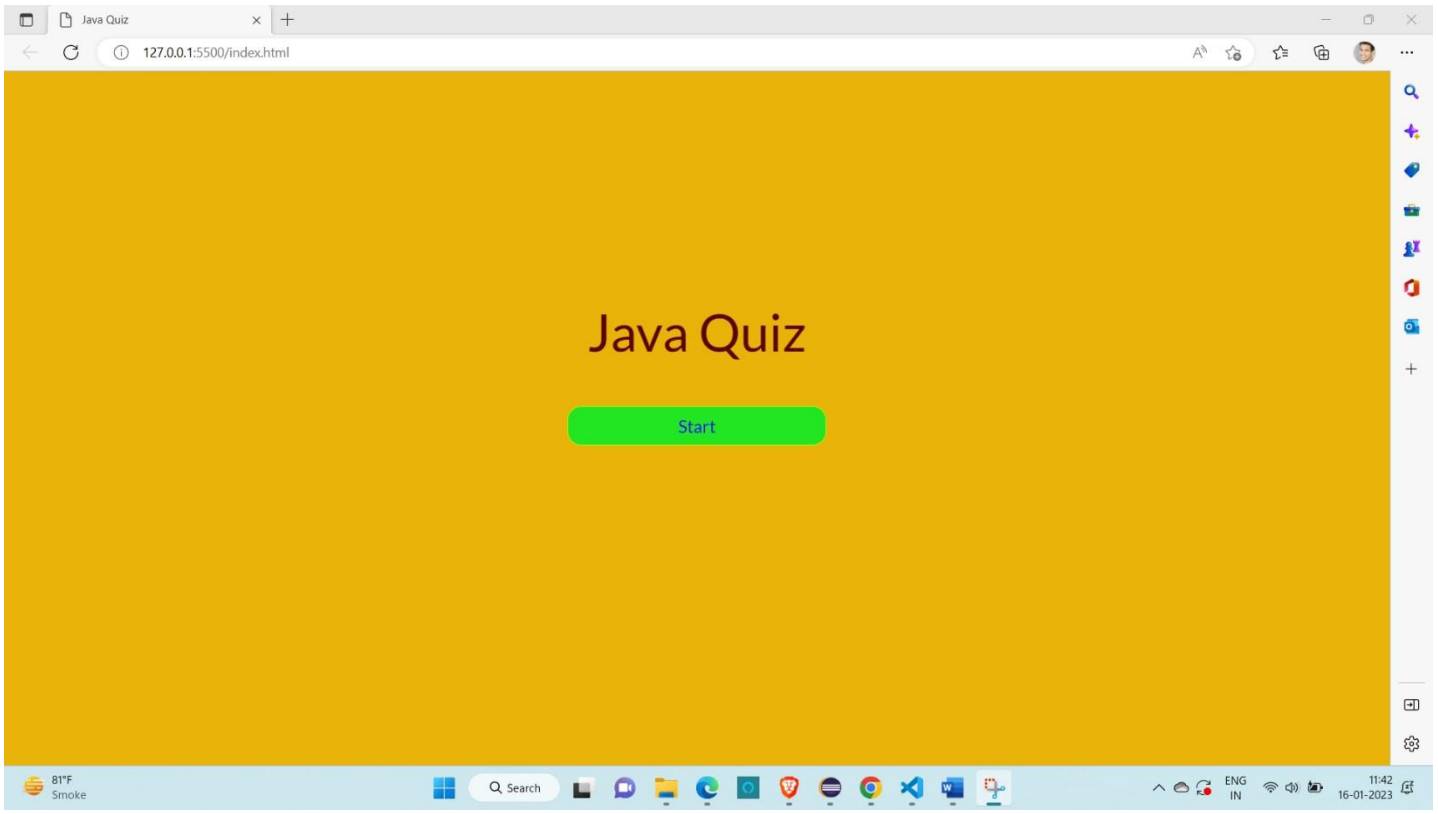
JSON

questions.json

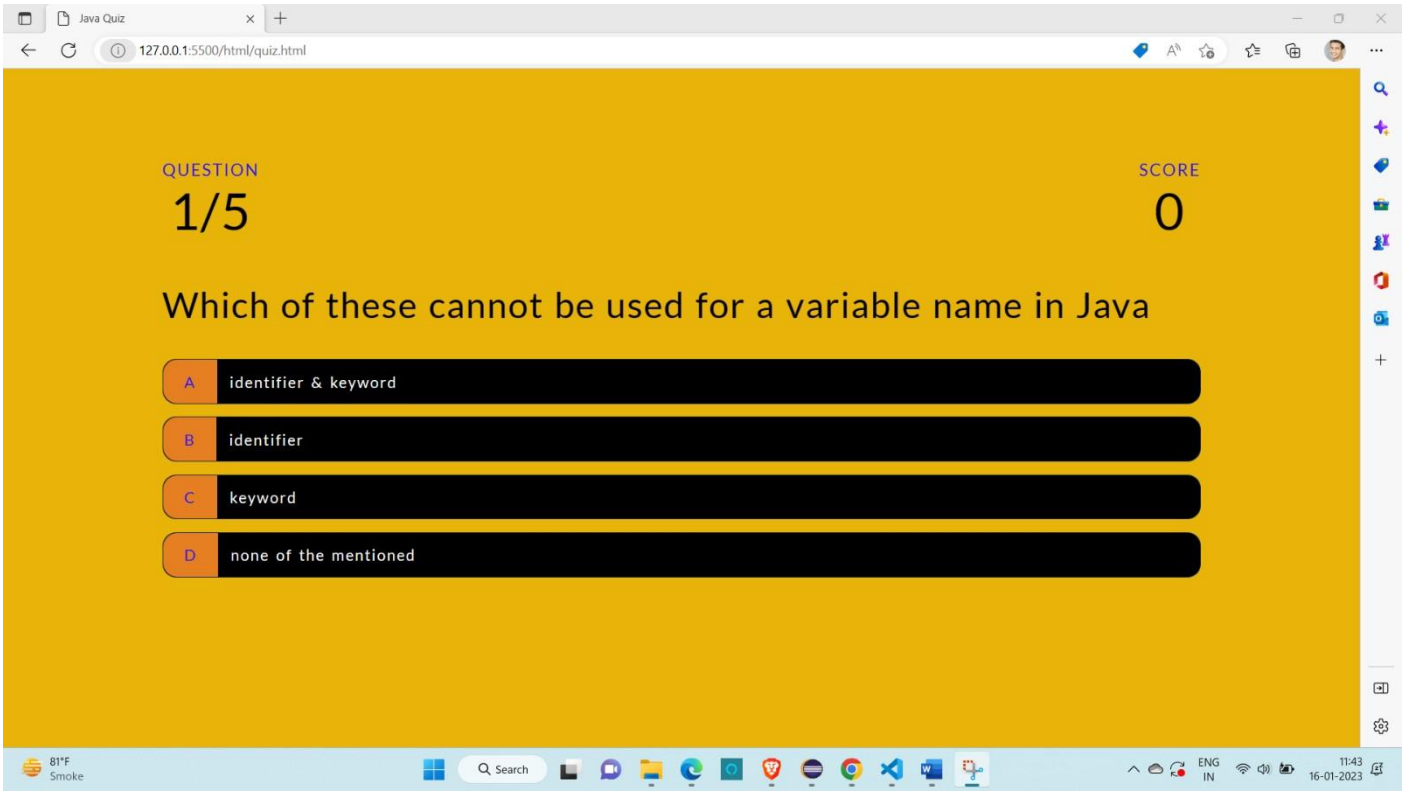
```
[
  {
    "question": "Which component is used to compile, debug and execute the java programs?",
    "choice1": "JRE",
    "choice2": "JIT",
    "choice3": "JDK",
    "choice4": "JVM",
    "answer": 3
  },
  {
    "question": "Which one of the following is not a Java feature?",
    "choice1": "Object-oriented",
    "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
  }

]
```

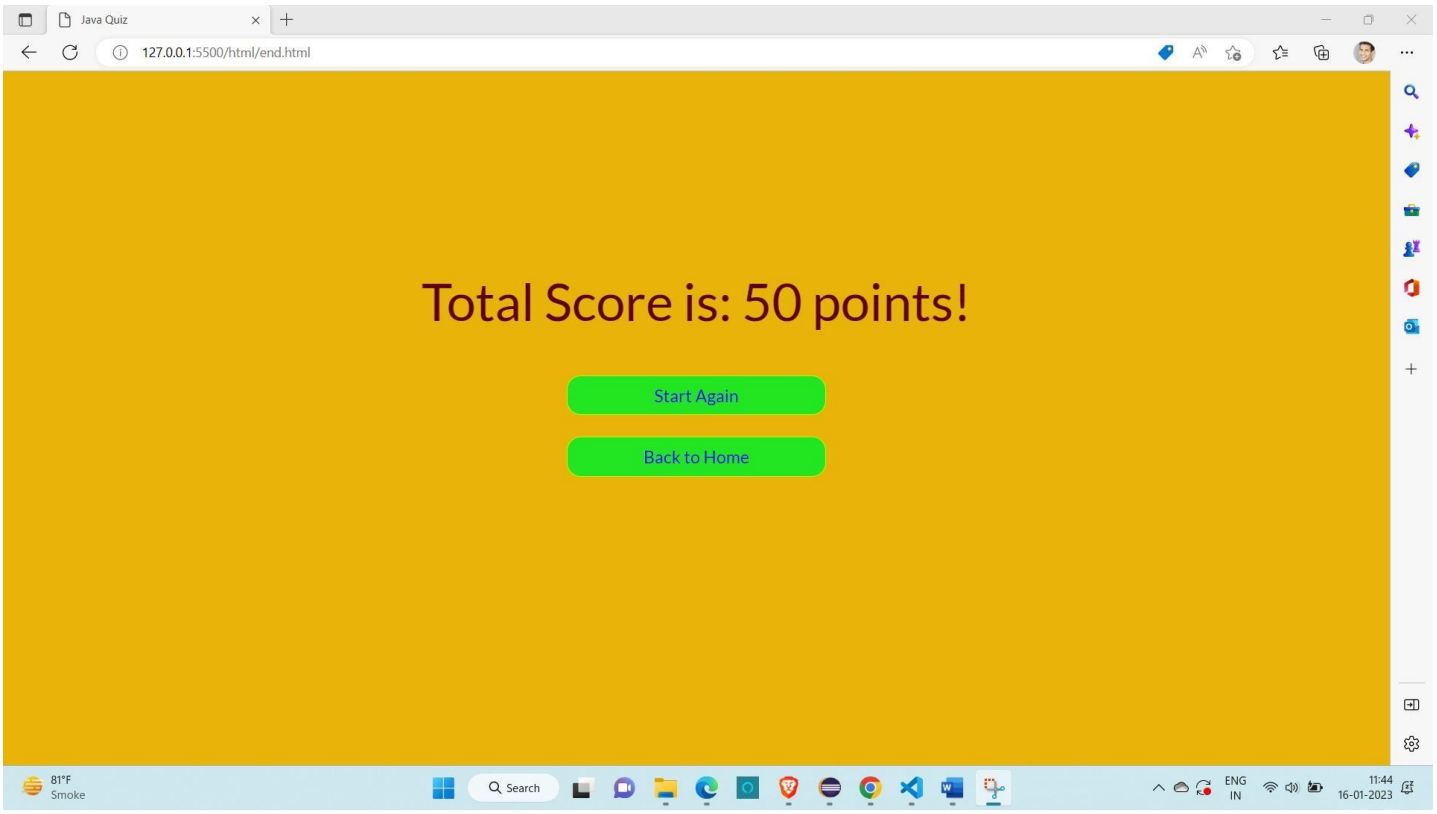
Screenshots:

HomePage : index.html



quiz.html




Java Quiz
127.0.0.1:5500/html/end.html
Total Score is: 50 points!
Start Again
Back to Home
81°F
Smoke
Search
ENG
IN
11:44
16-01-2023