

Project on web development-creating quiz in javascript

Save file as index.html:

```
<html>

<head lang="en">

  <meta charset="UTF-8">

  <title>Quiz</title>

  <link rel="stylesheet" type="text/css" href="style.css">

</head>

<body>

  <div class="grid">

    <div id="quiz">

      <h1>Quiz in JavaScript </h1>

      <hr style="margin-bottom: 20px">

      <p id="question"></p>

      <div class="buttons">

        <button id="btn0"><span id="choice0"></span></button>

        <button id="btn1"><span id="choice1"></span></button>

        <button id="btn2"><span id="choice2"></span></button>

        <button id="btn3"><span id="choice3"></span></button>

      </div>

      <hr style="margin-top: 50px">

      <footer>

        <p id="progress">Question x of y</p>
```

```
        </footer>

    </div>

</div>

<script src="question.js"></script>

</body>

</html>
```

Save file as style.css:

```
body {

    background-color: #413D3D;

}

.grid {

    width: 600px;

    height: 500px;

    margin: 0 auto;

    background-color: #fff;

    padding: 10px 50px 50px 50px;

    border: 2px solid #cbcbcb;

}

.grid h1 {

    font-family: "sans-serif";

    background-color: #01BBFF;

    font-size: 60px;

    text-align:center;

color: #ffffff;

    padding: 2px 0px;

}
```

```
#score {  
    color: #01BBFF;  
    text-align: center;  
    font-size: 30px; }  
  
.grid #question {  
    font-family: "monospace";  
    font-size: 30px;  
    color: #01BBFF;  
}  
  
.buttons {  
    margin-top: 30px;  
}  
  
#btn0, #btn1, #btn2, #btn3 {  
    background-color: #01BBFF;  
    width: 250px;  
    font-size: 20px;  
    color: #fff;  
    border: 1px solid #1D3C6A;  
    margin: 10px 40px 10px 0px;  
    padding: 10px 10px;  
}  
  
#btn0:hover, #btn1:hover, #btn2:hover, #btn3:hover {  
    cursor: pointer;  
    background-color: #01BBFF;  
}  
  
#btn0:focus, #btn1:focus, #btn2:focus, #btn3:focus {
```

```
        outline: 0;
    }
    #progress {
        color: #2b2b2b;
        font-size: 18px;
    }
```

Save file as question.js:

```
function Quiz(questions) {
    this.score = 0;
    this.questions = questions;
    this.questionIndex = 0;
}

Quiz.prototype.getQuestionIndex = function() {
    return this.questions[this.questionIndex];
}

Quiz.prototype.guess = function(answer) {
    if(this.getQuestionIndex().isCorrectAnswer(answer)) {
        this.score++;
    }
    this.questionIndex++;
}

Quiz.prototype.isEnded = function() {
    return this.questionIndex === this.questions.length;
}

function Question(text, choices, answer) {
    this.text = text;
```

```

    this.choices = choices;

    this.answer = answer;
}

Question.prototype.isCorrectAnswer = function(choice) {

    return this.answer === choice;
}

function populate() {

    if(quiz.isEnded()) {

        showScores();

    }

    else {

        // show question

        var element = document.getElementById("question");

        element.innerHTML = quiz.getQuestionIndex().text;

        // show options

        var choices = quiz.getQuestionIndex().choices;

        for(var i = 0; i < choices.length; i++) {

            var element = document.getElementById("choice" + i);

            element.innerHTML = choices[i];

            guess("btn" + i, choices[i]);

        }

        showProgress();

    }

};

function guess(id, guess) {

    var button = document.getElementById(id);

```

```

button.onclick = function() {

    quiz.guess(guess);

    populate();

}

};

function showProgress() {

    var currentQuestionNumber = quiz.questionIndex + 1;

    var element = document.getElementById("progress");

    element.innerHTML = "Question " + currentQuestionNumber + " of " +
quiz.questions.length;

};

function showScores() {

    var gameOverHTML = "<h1>Result</h1>";

    gameOverHTML += "<h2 id='score'> Your scores: " + quiz.score + "</h2>";

    var element = document.getElementById("quiz");

    element.innerHTML = gameOverHTML;

};

// create questions here

var questions = [

    new Question("Hyper Text Markup Language Stand For?", ["JavaScript", "XHTML", "CSS",
"HTML"], "HTML"),

    new Question("Which language is used for styling web pages?", ["HTML", "jQuery", "CSS",
"XML"], "CSS"),

    new Question("Which is not a JavaScript Framework?", ["Python Script",
"jQuery", "Django", "NodeJS"], "Django"),

    new Question("Which is used for Connect To Database?", ["PHP", "HTML", "JS", "All"],
"PHP"),

```

```
new Question("javascript language is a", ["object-oriented", "object-based", "assembly-language", "high-level"], "object-based")
```

```
];
```

```
// create quiz
```

```
var quiz = new Quiz(questions);
```

```
// display quiz
```

```
populate();
```

output:





