```
1    /*jshint esversion: 6 */
2
3    const question = document.getElementById("beginnerqs");
4    const options = Array.from(document.getElementsByClassName("optionsbl"));
5    const questionTracker = document.getElementById('trackqs');
6    const pointsTracker = document.getElementById('points');
7
8    const directoryQuestionsMax = 5;
9    const individualPoints = 15;
10   const penaltyPoints = 5;
11
12   let liveQuestion = {};
13   let monitoringAnswers = false; //false value used so users can not pick answer before page
14   let tally = 0;
15   let questionblCounter = 0;
16   let directoryQuestions = [];
17   let fetchNextQuestion =  {};
18   let startQuiz = {};
19   let pointsIncrease = {};
20   let pointsDecrease = {};
21
22   let listOfQuestions = [
23       {
24           question:"Question: How do you say Good morning in Yoruba?",
25           option1:"Ekaro",
26           option2:"Ekasan",
27           option3:"Ekale",
28           option4:"Bawo ni",
29           answer: 1
30       },
31       {
32           question:"Question: How do you say 'Orange'(fruit) in Yoruba?",
33           option1:"Ada",
34           option2:"Sibi",
35           option3:"Osan",
36           option4:"Aja",
37           answer: 3
38       },
39       {
40           question:"Question: Yoruba is a tribe in which African country?",
41           option1:"Ghana",
42           option2:"South Africa",
43           option3:"Nigeria",
44           option4:"South Sudan",
45           answer: 3
46       },
47       {
48           question:"Question: How do you say Good afternoon in Yoruba?",
49           option1:"Bawo ni",
50           option2:"Ekasan",
51           option3:"Dada ni",
52           option4:"Ekale",
53           answer: 2
54       },
55       {
56           question:"Question: How do you say 'Mother' in Yoruba?",
57           option1:"Aburo",
58           option2:"Maami",
59           option3:"Egbon",
60           option4:"Baami",
61           answer: 2
62       }
63   ];
64
65   startQuiz = () => {
66       questionblCounter = 0;
67       tally = 0;
68       directoryQuestions = [...listOfQuestions];
```

```javascript
69        fetchNextQuestion();
70    };
71
72    fetchNextQuestion = () => {
73        if (directoryQuestions.length === 0 || questionblCounter > directoryQuestionsMax) {
74            localStorage.setItem("totalPoints", tally);//allows points to appear on the respec
75            window.location.assign("https://solacoder005.github.io/ba-mi-soro/quiz-end.html");
76        }
77
78        questionblCounter++;
79        questionTracker.innerHTML= questionblCounter + "/" + directoryQuestionsMax; //question
80        const questionIndex = Math.floor(Math.random() * directoryQuestions.length); //this al
81        liveQuestion = directoryQuestions[questionIndex];
82        question.innerHTML= liveQuestion.question;
83
84        options.forEach( option => {
85            const number = option.dataset.number;
86            option.innerHTML= liveQuestion['option' + number];
87        });
88
89        directoryQuestions.splice(questionIndex, 1);//removes the question that is used
90        monitoringAnswers = true; //corrolates with initial variable value (above)
91    };
92
93    options.forEach(option => {
94        option.addEventListener('click', e => {
95        if(!monitoringAnswers) return;
96
97        monitoringAnswers = false; // this tracks which answer is clicked in the console
98        const selectedOption = e.target;
99        const selectedAnswer = selectedOption.dataset.number;
100        const classToApply =
101            selectedAnswer == liveQuestion.answer ? "right" : "wrong"; //using == rather than
102            if (classToApply === "right") {
103                pointsIncrease(individualPoints);
104            } else {
105                pointsDecrease(penaltyPoints);
106            }
107
108        selectedOption.parentElement.classList.add(classToApply); //classList.add is shorthand
109
110        setTimeout(() => {
111            selectedOption.parentElement.classList.remove(classToApply);
112            fetchNextQuestion();
113        }, 500);
114        });
115    });
116
117    pointsIncrease = num => {
118        tally += num;
119        pointsTracker.innerHTML= tally;
120    };
121
122    pointsDecrease = num => {
123        tally -= num;
124        pointsTracker.innerHTML= tally;
125    };
126
127    startQuiz();
128
129    /** DEVELOPER NOTES
130     * 'jshint eversion...' tells JavaScript checkers like JShint that source code uses 'ECMAS
131     * Reference material:
132     *   J. Q. Quick, 2019 [https://youtube.com/playlist?list=PLDlWc9AfQBfZIkdVaOQXi1tizJeNJi
133     */
```

Metrics

There are 8 functions in this file.

Function with the largest signature take 1 arguments, while the median is 1.

Largest function has 11 statements in it, while the median is 2.

The most complex function has a cyclomatic complexity value of 4 while the median is 1.