**Final React App**

1. Create a new project or use an existing one. Import React, useState, and the QuizApp.css:
2. Define the functional component `QuizApp`:
3. Create an array called `questions` that holds a list of question objects. You can use questions.txt for ideas. You must provide the index number (starts with zero) for the correct statement.

const questions = [

{

question: 'What is React?',

options: ['A JavaScript library for building user interfaces', 'A programming language', 'A database management system', 'A design framework'],

answer: 0

},

{

question: 'What does JSX stand for?',

options: ['', '', ''],

answer:

},

// ... (continue adding questions)

];

1. Set up 3 state variables using the `useState` hook:
   1. The first will be for a question and setting the question and will initialize to 0
   2. The next one is for score and will initialize to 0
   3. The third is for result and defaults to false
2. 5. Create a function named `handleAnswerClick` that takes a `selectedOption` as a parameter and updates the score and current question:

const handleAnswerClick = (selectedOption) => {

const currentAnswer = questions[currentQuestion].answer;

if (selectedOption === currentAnswer) {

setScore((prevScore) => prevScore + 1);

}

const nextQuestion = currentQuestion + 1;

if (nextQuestion < questions.length) {

setCurrentQuestion(nextQuestion);

} else {

setShowResult(true);

}

};

1. Define a function named `restartQuiz` that resets the current question, score, and show result variables to their original values:
2. Return the JSX elements to be rendered:

return (

<div className="quiz-container">

{showResult ? (

<div className="result">

<h2>Quiz Result</h2>

<p>You scored {score} out of {questions.length}!</p>

<button onClick={restartQuiz}>Restart Quiz</button>

</div>

) : (

<div>

<h2 className="question">Question {currentQuestion + 1}</h2>

<h3>{questions[currentQuestion].question}</h3>

<ul className="options">

{questions[currentQuestion].options.map((option, index) => (

<li

key={index}

onClick={() => handleAnswerClick(index)}

className="option"

>

{option}

</li>

))}

</ul>

</div>

)}

</div>

);

1. Export the `QuizApp` component as the default export: