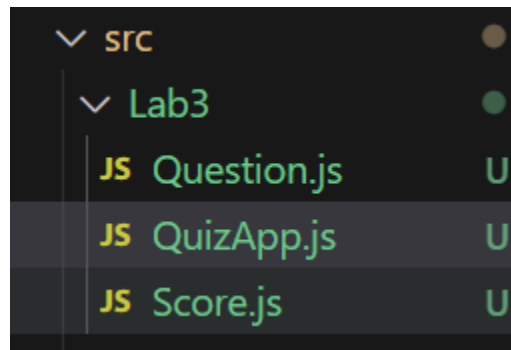


## Lab 3: About all Components

Building a ReactJS application with a user interface that requires the user to input a list of questions and answer options for each question. Display the questions and answer options to the user and check whether the user has selected the correct or incorrect answer.

### 1. Create Components



#### 1.1. Create a main Component to manage the entire Quiz application:

- Create a Component named '**QuizApp**'.
- In this Component, you can use state variables to store information such as the current question, selected answer options, and score.

```
Lab3 > JS QuizApp.js > App > constructor
super(props);
this.state = {
  questions: [
    {
      id: 1,
      question: "What is the capital of France?",
      options: ["Paris", "London", "Berlin", "Madrid"],
      answer: "Paris"
    },
    {
      id: 2,
      question: "What is the largest planet in our solar system?",
      options: ["Jupiter", "Saturn", "Mars", "Earth"],
      answer: "Jupiter"
    },
    // Add more questions here
  ],
  currentQuestion: 0,
  score: 0,
  quizEnd: false
};
```

- Use methods to handle events such as selecting an answer, checking the answer, and moving to the next question.

### 1.2. Create a child Component to display the question and answer options to the user:

- Create a Component named 'Question' or any desired name.
- In this Component, you can pass props such as the question, list of answer options, and the selected answer.
- Use methods to handle events such as selecting an answer and submitting the answer.

### 1.3. Create a child Component to display the user's result after completing the Quiz:

- Create a Component named 'Result' or any desired name.
- In this Component, you can pass props such as the user's score.
- Display the user's result and provide options such as replaying or sharing the result.

## 2. Check the answer

- When the user selects an answer option, check if that answer is correct or incorrect.
- If the answer is correct, increase the user's score.
- Move to the next question by incrementing the current question counter.

### 3. Display the result

#### Question 1

What is the capital of France?

[Paris](#)

[London](#)

[Berlin](#)

[Madrid](#)

#### Question 2

What is the largest planet in our solar system?

[Jupiter](#)

[Saturn](#)

[Mars](#)

[Earth](#)

# Quiz Ended

## Your Score: 2

When the user completes the Quiz, display the final result and the user's score.

Use a child Component to display the result and score.