React-17

**Title:** Consuming REST APIs in React – User Data Fetch Application

**Objective:**  
To build a React application that fetches user details from a REST API and displays the relevant information.

**Application Name:**  
fetchuserapp

**API Endpoint Used:**  
<https://api.randomuser.me/>

**Component Name:**  
Getuser

**Functionality Description:**  
The application will consist of a component named Getuser. This component will use the componentDidMount() lifecycle method to make an asynchronous call to the given API using the fetch() method. The response will be parsed, and specific user information including the title, first name, and profile image will be displayed in the render method.

**Implementation Steps:**

1. Ensure that **Node.js**, **NPM**, and **Visual Studio Code** are installed.
2. Create a new React application using the command:
3. npx create-react-app fetchuserapp
4. Navigate into the project directory:
5. cd fetchuserapp
6. Create a component named Getuser.js under the src folder.
7. Add the following code to Getuser.js:
8. import React, { Component } from 'react';
9. class Getuser extends Component {
10. constructor(props) {
11. super(props);
12. this.state = {
13. user: null,
14. };
15. }
16. async componentDidMount() {
17. try {
18. const response = await fetch('https://api.randomuser.me/');
19. const data = await response.json();
20. this.setState({ user: data.results[0] });
21. } catch (error) {
22. console.error("Error fetching data:", error);
23. }
24. }
25. render() {
26. const { user } = this.state;
27. return (
28. <div>
29. {user ? (
30. <div>
31. <h2>{user.name.title} {user.name.first}</h2>
32. <img src={user.picture.large} alt="User" />
33. </div>
34. ) : (
35. <p>Loading user data...</p>
36. )}
37. </div>
38. );
39. }
40. }
41. export default Getuser;
42. Import and render the Getuser component in App.js:
43. import React from 'react';
44. import './App.css';
45. import Getuser from './Getuser';
46. function App() {
47. return (
48. <div className="App">
49. <h1>Random User Details</h1>
50. <Getuser />
51. </div>
52. );
53. }
54. export default App;

**Expected Output:**  
Upon loading, the application should display the following details of a randomly fetched user:

* Title (e.g., Mr., Ms.)
* First name
* User image

**Estimated Time to Complete:**  
Approximately 60 minutes.