## **How to Consume REST APIs from React Applications**

Consuming REST APIs in React involves making HTTP requests to external servers and integrating
the returned data into your application components.
Here are the key steps to consume a REST API in React:
1. Use fetch() or axios:
- fetch() is a native JavaScript method.
- axios is a popular third-party HTTP client.
Use lifecycle methods or useEffect:
- In class components, use componentDidMount() to fetch data after the component is mounted.
- In function components, use useEffect() to fetch data when the component loads.
3. Use async/await to handle asynchronous operations:
- Use try/catch blocks to handle errors gracefully.
4. Store the fetched data in component state using useState or this.setState().
5. Render the data conditionally, showing a loader until data is available.
Example (Using Class Component):
class GetUser extends React.Component {

```
state = { user: null };

async componentDidMount() {
  const res = await fetch("https://api.randomuser.me/");
  const data = await res.json();
  this.setState({ user: data.results[0] });
}

render() {
  const { user } = this.state;
  return user ? {user.name.first} : Loading...;
}
```

## Conclusion:

By combining fetch or axios with React's state and lifecycle (or hooks), you can seamlessly consume REST APIs and display dynamic data in your UI.