

React JS Training

(Intermediate to Advanced)



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Trainer Introduction



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Trainer Introduction

- 20+ Years of Experience
- Educational Background : MCA
- Experience with Software Development and Training on different technologies.
- As SDET2 : VS 2008, IE8, Bing, MS Dynamics
- MCTS certified
- Key Skills : UI Technologies, MEAN/MERN, DotNet Fullstack
- Given valued added trainings for corporate clients.
- Recent Clients : Ness Tech, Prolifics, Deloitte, Salesforce, Cognizant, Godrej, Pega Systems, FIS Global, Aptean etc..

Training Schedule



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Schedule for React JS Training

Day#	Date	Topic
Day-1	16-Apr-2024	State Management : Class Components
Day-2	17-Apr-2024	State Management : Functional Components, Hooks
Day-3	18-Apr-2024	Http Client Programming – AJAX Calls to APIs (Node JS)
Day-4	19-Apr-2024	Working with Forms, Validations, Services
Day-5	22-Apr-2024	Redux – State Management Library
Day-6	23-Apr-2024	Unit Testing React Application
Day-7	24-Apr-2024	Routing – SPA in React JS

Day1

State Management in React JS



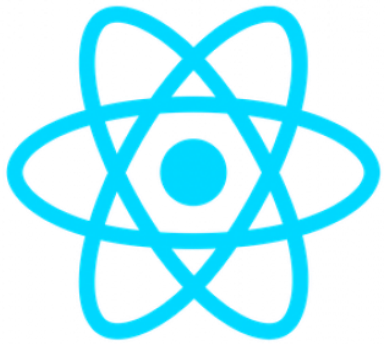
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Index – Day1

- 1. Recap : React JS Basics**
- 2. State and Props in React Components**
- 3. State management API : setState()**
- 4. How to manage state in class components**
- 5. Stateless component**



React Components : Stateful / Stateless

Stateful Components

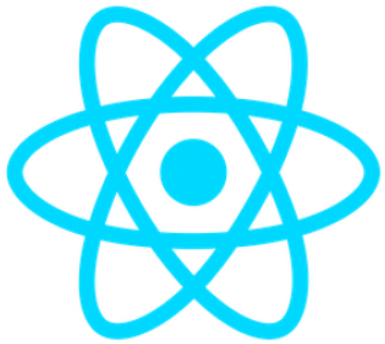
- Stateful / Container / Smart
- That means the stateful components are keeping track of changing data.
- Class based components are stateful

Stateless Components

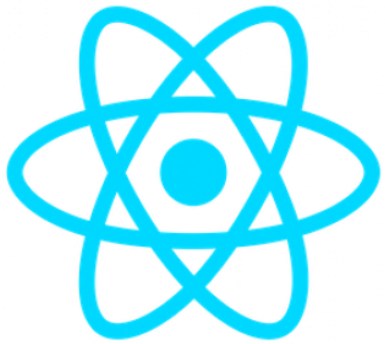
- Stateless / presentational / dumb
- Concerned with presenting data — how things look
- Usually are STATELESS — but not always
- Most likely a ‘child’ of a container component
- Will make up the majority of your application

Components

- Class Components (stateful)
- Functional Components without hooks (stateless)
- Functional Components with hooks (stateful)



State and Props in React Components



Working with Props

Working with props

- “Props” is a special keyword in React
- It stands for properties
- It used for passing data from one component to another.
- props are used like attributes in html tags.
- props data is read-only, which means that data coming from the parent should not be changed by child components.

Working with props

```
<Demo uname="Narasimha" />
```

```
<div>  
  Welcome to {this.props.uname}  
</div>
```

Practice Hands-Ons

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State Management in Class Components

Parent - Child Communication in React Applications

Accounts
Deptno : 10
Location : Hyd
[Remove](#)

Sales
Deptno : 20
Location : Pune
[Remove](#)

Marketing
Deptno : 30
Location : Hyd
[Remove](#)

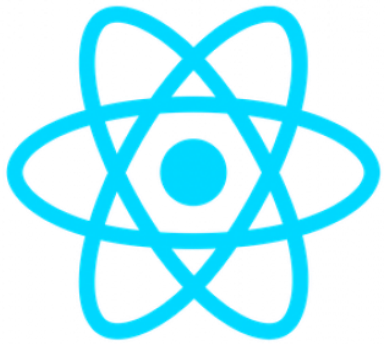
Operations
Deptno : 40
Location : Chnnai
[Remove](#)

Admin
Deptno : 50
Location : Pune
[Remove](#)

Finance
Deptno : 60
Location : Hyd
[Remove](#)

Testing
Deptno : 70
Location : Mumbai
[Remove](#)

Advertise
Deptno : 80
Location : Goa
[Remove](#)



How to manage the state?

Working with state in Class Components

- state is an instance member of React Component.
- It can be defined as an object of a set of properties.
- It holds the information that may change over the lifetime of the component.
- By default every component will get state object as null from parent component (React.Component) .
- We initialize state in component constructor with required properties.

this.state = { uname : "Scott"} ;

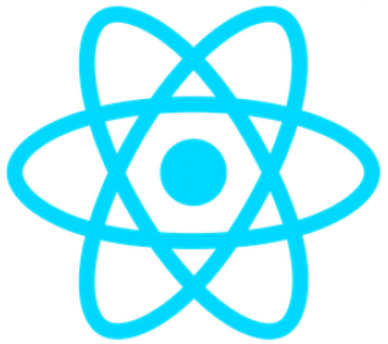
Usage of setState() method

- setState() schedules an update to a component's state object.
- When state changes, the component responds by re-rendering.
- setState() is the only legitimate way to update state after the initial state setup.

Usage of setState() method

```
class Demo extends React.Component
{
  constructor() {
    this.state = { name : "Scott" }; // Initialize State
    this.buttonClick = this.buttonClick.bind( this );
  }

  buttonClick() {
    this.setState( { name : "Scott" } ); // Update State
  }
}
```



Stateless Components



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