

# Skill Training

## React JS

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# Schedule for React JS Training

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**Day1 : State Management : Class Components**

Day2 : State Management : Functional Components, Hooks

Day3 : Http Client Programming

Day4 : Working with Forms, Validations, Services

Day5 : Redux

Day6 : Unit Testing

Day7 : Routing – SPA in React JS

Day1

# State Management in React JS



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# Index – Day1

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

# React Components : Stateful / Stateless

# Stateful Components

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

# Stateless Components

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- 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

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- 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

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- “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

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

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

## Practice Hands-Ons

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# How to manage the state?

# Working with state in Class Components

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- 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

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- 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

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```
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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