React JS Training

(Intermediate to Advanced)

React

Narasimha

Sr. Corporate Trainer, Mentor

tnrao.trainer@gmail.com

Trainer Introduction

React

Narasimha

Sr. Corporate Trainer, Mentor

tnrao.trainer@gmail.com

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, Salesforece, Cognizant, Godrej, Pega Systems, FIS Global, Aptean etc..

Training Schedule

React

Narasimha

Sr. Corporate Trainer, Mentor

tnrao.trainer@gmail.com

Schedule for React JS Training

Day#	Date	Topic
Day-1	**23-Nov-2023**	**State Management : Class Components**
Day-2	24-Nov-2023	State Management : Functional Components, Hooks
Day-3	27-Nov-2023	Http Client Programming – AJAX Calls to APIs (Node JS)
Day-4	28-Nov-2023	Working with Forms, Validations, Services
Day-5	29-Nov-2023	Redux – State Management Library
Day-6	30-Nov-2023	Unit Testing React Application
Day-7	01-Dec-2023	Routing – SPA in React JS

Duration : 7 days (2hours per day) ; 9:30 am to 11:30 pm; 23th Nov – 1st Dec

Day1
State Management in React JS

React

Narasimha
Sr. Corporate Trainer, Mentor
tnrao.trainer@gmail.com

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

Narasimha

Sr. IT Trainer/Consultant

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

Narasimha

Sr. IT Trainer/Consultant

Working with Props

Narasimha

Sr. IT Trainer/Consultant

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" />
```

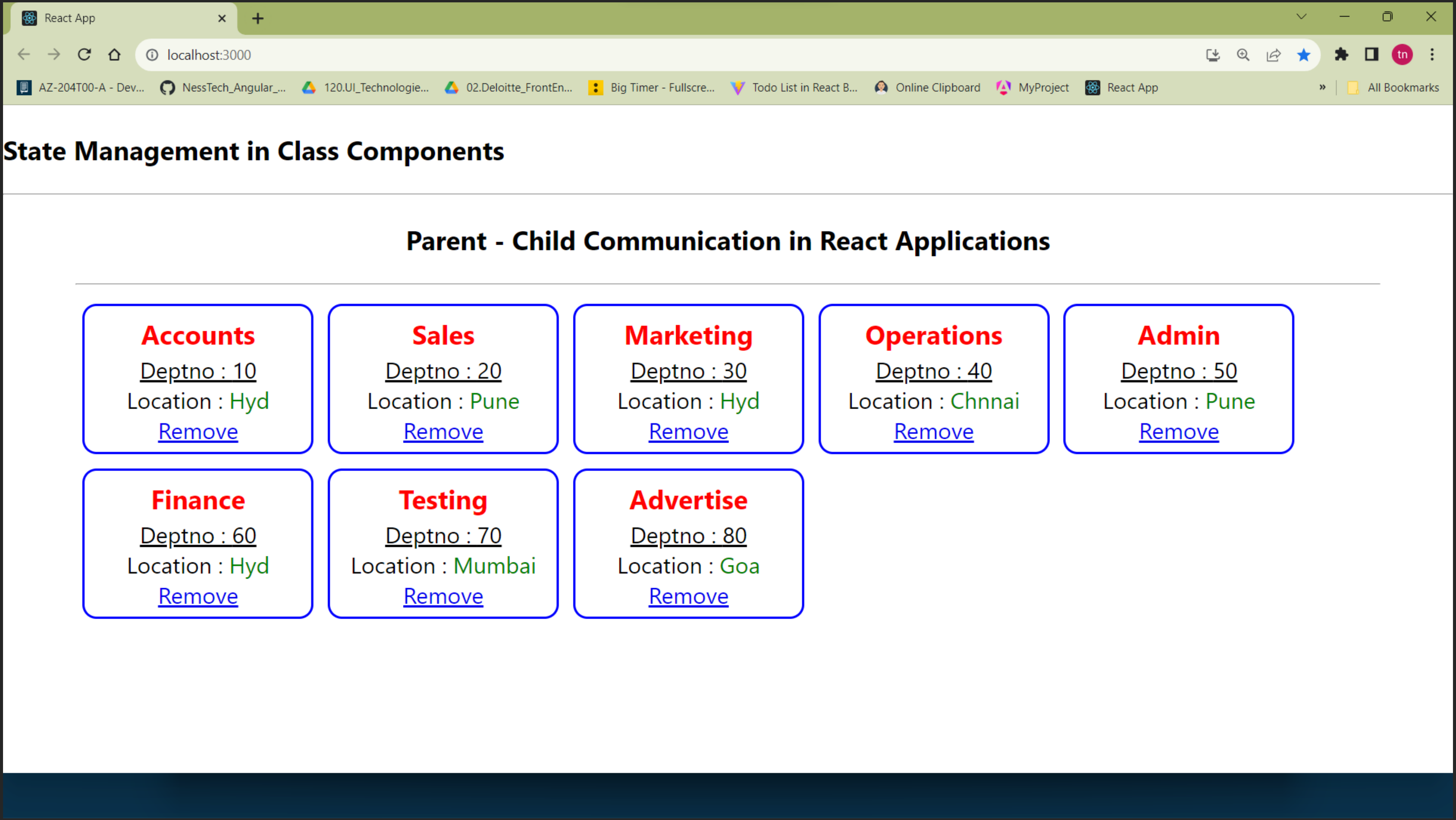
```
<div>
    Welcome to {this.props.uname}
</div>
```

Practice Hands-Ons

Narasimha

Sr. Corporate Trainer, Mentor

tnrao.trainer@gmail.com



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?

Narasimha

Sr. IT Trainer/Consultant

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

Narasimha

Sr. IT Trainer/Consultant

Q & A

Narasimha

Sr. Corporate Trainer, Mentor

tnrao.trainer@gmail.com