

React Js v.16

People matter, results count.

Course Goals and Non Goals

- Course Goals
 - Learning the ReactJS
- Course Non Goals
 - Comparison with Angular2, Redux dev tools



IGATE is now a part of Capgemini

People matter, results count.

Pre-requisites

- **HTML, JavaScript-OOPS & jQuery Basics**

IGATE is now a part of Capgemini

People matter, results count.

Capgemini Public



Intended Audience

- Web application developers



IGATE is now a part of Capgemini

People matter, results count.

Day Wise Schedule & Table of Contents

- **Day 1**
- **React Introduction**
 - Overview of frameworks, libraries for client side Web applications
 - React introduction,
 - Understanding “what” and “why” React
 - React Component Demonstration using codepen
 - Environment Setup for React Application
 - Understanding NPM commands
 - Using VS Code
 - VS Code extensions for ES6, React
 - Helloworld app in React

IGATE is now a part of Capgemini

People matter, results count.

Capgemini Public



Day Wise Schedule & Table of Contents

- **Day 1**
- **React Essential Features and Syntax**
 - React App Project Directory Structure
 - Overview of Webpack, Babel
 - React Component Basic
 - Create React Component
 - Understanding JSX
 - Limitations of JSX
 - Working with Components and Reusing Components

IGATE is now a part of Capgemini

People matter, results count.

Capgemini Public



Day Wise Schedule & Table of Contents

- **Day 2**
- **React Components, Props and State**
 - Understanding and using Props and State
 - Manipulating the State
 - Two way data-binding
 - Functional (Stateless) VS Class (Stateful) Components
 - Parent – Child Communication
 - Dynamically rendering contents
 - Showing Lists, List and keys
- **Styling Components**
 - CSS Styling
 - Scoping Styles using Inline Styles
 - Limitations of inline styles
 - Inline Styles with Radium
 - Using Psuedo classes/media queries with inline styles
 - CSS Modules, importing css classes
 - Adding Bootstrap, Semantic UI to React apps
 - Using react-bootstrap, reactstrap packages

IGATE is now a part of Capgemini

Day Wise Schedule & Table of Contents

- **Day 3**
- **Debugging React Apps**
 - Understanding React Error Messages
 - Handling Logical Errors,
 - Debugging React apps using google developer tools and React DevTool
 - Understanding Error Boundaries
- **React Component life cycle**
 - Updating life cycle hooks
 - PureComponent
 - React's DOM Updating Strategy
 - Returning adjacent elements
 - Fragments

IGATE is now a part of Capgemini



People matter, results count.

Capgemini Public

Day Wise Schedule & Table of Contents

- **Day 4**
- **Component in Details**
 - Higher Order Components
 - Passing unknown Props
 - Validating Props
 - Using References
 - React Context API
 - Updated LifeCycle hooks (16.3)
 - Best practices for React Projects
 - Demo apps

IGATE is now a part of Capgemini

People matter, results count.

Capgemini Public



Day Wise Schedule & Table of Contents

- Day 5
- **HTTP Requests/Ajax Calls**
 - HTTP Requests in React
 - Introduction of Axios package
 - HTTP GET Request, fetching & transforming data
 - HTTP POST, DELETE, UPDATE
 - Handling Errors
 - Adding/Removing Interceptors
 - Creating/Using Axios instances

IGATE is now a part of Capgemini



People matter, results count.

Capgemini Public

Day Wise Schedule & Table of Contents

- **Day 6**
- **React Routing**
 - Routing and SPAs
 - Setting Up the Router Package
 - react-router vs react-router-dom
 - Preparing the Project For Routing
 - Switching Between Pages, Routing-Related Props
 - The "withRouter" HOC & Route Props
 - Passing & extracting route/query parameters
 - Using Switch to Load a Single Route
 - Navigating Programmatically

IGATE is now a part of Capgemini



People matter, results count.

Capgemini Public

Day Wise Schedule & Table of Contents

- **Day 7**
- **React Forms and Form Validation**
 - Creating a Custom Dynamic Input Component
 - Setting Up a JS Config for the Form
 - Dynamically Create Inputs based on JS Config
 - Adding a Dropdown Component
 - Handling User Input
 - Handling Form Submission
 - Adding Custom Form Validation
 - Fixing a Common Validation
 - Adding Validation Feedback
 - Showing Error Messages
 - Handling Overall Form Validity
- **Deploying React App to the Web**
- **GULP**
 - Gulp-JavaScript Task Runner
 - Gulp API
 - **Creating React Component modules**
 - Creating gulpfile.js

IGATE is now a part of Capgemini



People matter, results count.

Capgemini Public

References

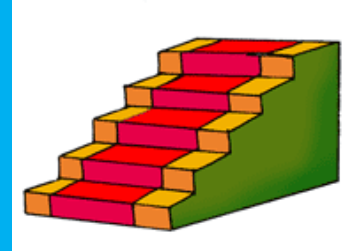
- <https://reactjs.org/docs/hello-world.html>
- <https://reactjs.org/docs/react-api.html>
- <https://reactjs.org/docs/react-api.html>
- <https://gkedge.gitbooks.io/redux-course-notes/>
- <https://blog.pusher.com/getting-started-with-react-router-v4/>
- <https://thinkster.io/tutorials/getting-started-with-react>
- https://www.kirupa.com/react/creating_single_page_app_react_using_react_router.htm
- <https://scotch.io/tutorials/learning-react-getting-started-and-concepts#introduction>
- www.medium.com



IGATE is now a part of Capgemini

Next Step Courses (if applicable)

- Creating application using React native and Redux
-



IGATE is now a part of Capgemini

People matter, results count.

Other Parallel Technology Areas

- **React Devtools**

IGATE is now a part of Capgemini

People matter, results count.

Capgemini Public

