

# ReactJS Course Content – Duration 3 Days

## Mandatory pre-reads before this training.

- . ES2015 (ES6)
- . New in ES6
- . Classes
- . Let and const
- . Arrow functions
- . Enhanced Object Literals
- . Constructor
- . Inheritance
- . Interface
- . Spread Operator
- . LESS/SASS

## NPM

- What is NPM
- How to create package.json
- How to install global modules
- How to install local modules
- Maintain development dependencies
- How to start local server

## **DAY 1**

### Module 1 – Getting Started

#### Introduction to Tools

- Gulp
- . Bower
- . Browserify
- . Babel Transcompiler

### Module 2 - Introduction to React

- . What is React.js
- . Need for React.js
- . Setup
- . JSX
- . Advantages of Virtual DOM

### Module 3 - Components

- . What is Component
- . Component Basics (Functional and Class Components)
- . Component Life Cycle and Implementation
- . Composing Components and Inter Communication (sending data from parent to child or child to parent)
- . Create Class
- . Create Element
- . Conditional Rendering

## **Day 2**

### Module 4 - State and Props

- Introduction
- Difference between State and Props
- Life Cycle Methods
- Managing data in React
- State and Props implementation
- Lifting State Up
- Refs and Input handling

### Module 5 - React Event Handling

- Introduction
- Reacting to Events
- Event handling Implementation
- Synthetic Events

### Module 6 – Lists and Forms

- Lists
- Forms

### Module 7 - Styling

- CSS Modules
- Component level styling
- Applying Style

### Module 8 - Advanced Component

- Communication between Components
- Reusable Components
- Controlled Components
- Un-Controlled Components
- Component Life Cycle
- Principle of One-way and two-way data binding
- Data-binding Helpers
- Higher Order Components

### Module 9 - Services

- How to fetch data from server

## **Day 3**

### Module 10 - Routing

- Introduction
- Single Page Application
- Applying Routing
- Router implementation
- Router params

- NavLink
- Nested Routing

#### Module 11 – Flux

- Action
- Dispatcher
- View
- Store

#### Module 12 – Redux

- Multiple Reducers
- Redux Middleware
- Redux async Action
- Connecting React & Redux

#### Module 12 – Unit testing

- Unit testing tools and utilities