

**FRONT END BASIC | JAVA SCRIPT | REACT BASIC| REACT  
ROUTER | BOOTSTARP | REACT DEDUC| REACT UI|  
MONITORING | RELEASE**

**10 MODULE | 4 LAB PROJECTS | LIVE INDUSTRY PROJECTS**

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## QUOTATION AND COURSE OUTLINE

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### BUILD EFFICIENT REACT APPLICATIONS WITH REACT REDUX

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#### Course Materials

TechPledge will provide a customized set of Lecture Notes for each class scheduled along with Recoded video . You will be given a PDF file which you may make copies from, email to your participants, or make available via internal website.

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#### Learning Path for React Developer

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React lets you apply your web development skills to create efficient apps. While React helps you cross the web/native boundary, there is a lot of detail that differs from traditional web development approaches. React uses modern JavaScript to get truly native UI and performance while sharing skills and code with the web. At the end of this course, you will be able to (a) Build applications targeting multiple platforms with a single codebase, (b) Leverage your React and Javascript skills, (c) Use various features of React .

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## Abilities Validated by the Training

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- To create new and innovative native applications for web
- The fundamentals of React
- To create apps which is interactive
- To create smaller reusable components from complex components
- Deploy apps on Heroku/Azure /AWS

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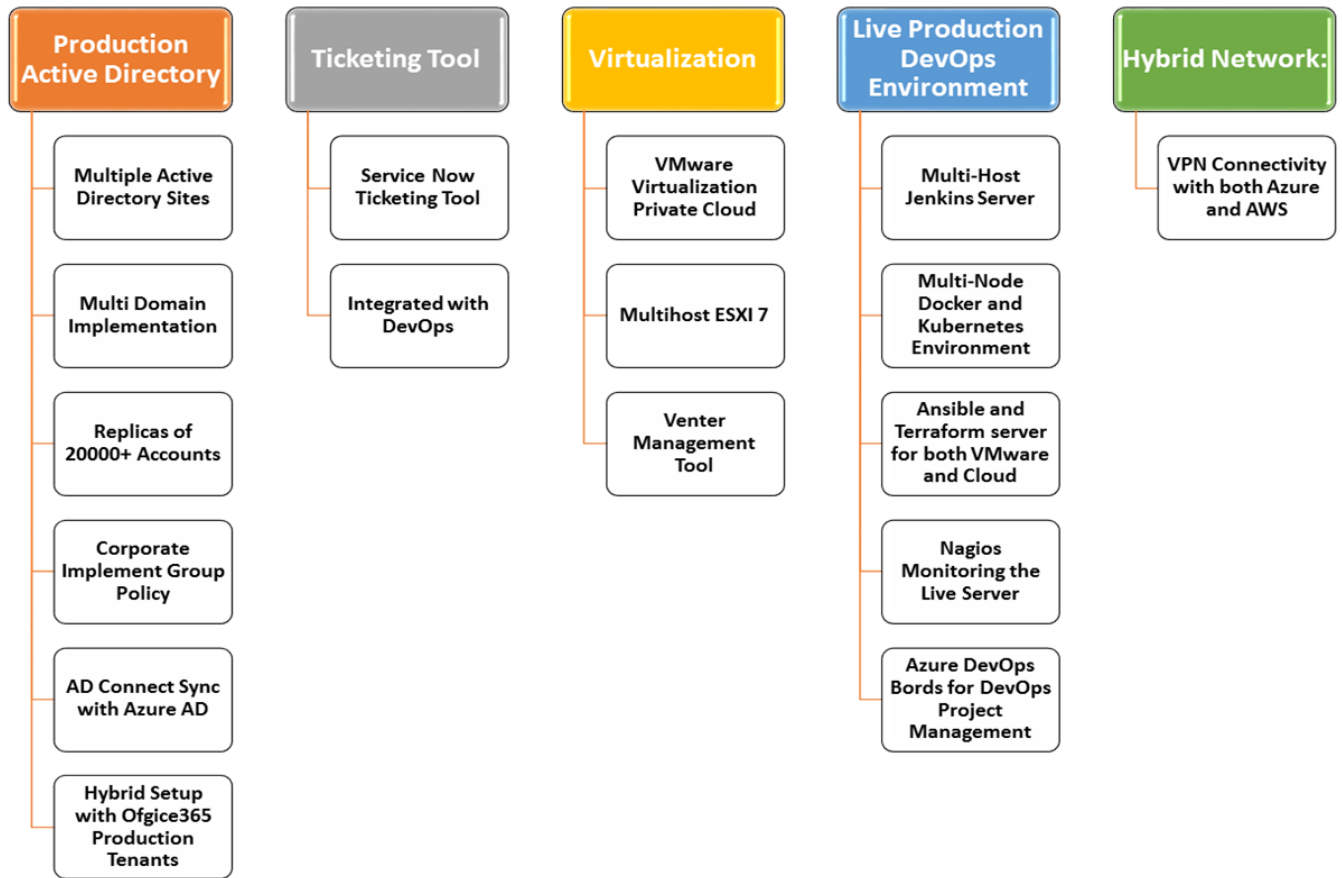
## Customer Immersion – Live Production Walkthrough

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6 Hours Live walkthrough the complete Development and Deployment Process in production environment with full setup of Infrastructure Like **React , Visual Studio , AD, Microsoft SQL , Microsoft Exchange, File Server , ADFS** and DevOps Tool Like **Jenkins , Ansible , Docker , Terraform, GCP CLI, AWS Code Deploy , AWS Code Pipeline , Azure Pipeline and Azure ARM** and Development Environment with Maven, Visual Studio and Python.

The Complete Setups is using **100 of PowerShell & Linux Script** with **237 CI/CD scripts** (Jason, Yamal).

Below is the High-Level Setup Outline of our Customer Immersion Production Replicas. Student will get the access of this setup at end of the course for 6 hours with AD ID and Organization Email.



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## Course Outline

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### Module 1 – React Basic

- What is React?
- Hello React
- Using the create-react-app

### Module 2 – Setup Development Environment

- Installing React
- Installing Node
- Run an example project

### Module 3 – Working with CSS

- Introduction To CSS
- Chrome Dev Tools
- selectors: Classes and Ids
- Grouping, Nesting, Chaining selectors
- Mini Project
- Colours, pixels, text styling
- Borders, Margins
- Types of displays: Inline, Inline Block, Block
- Position, Box Model

### Module 4 – Bootstrap

- Advanced CSS
- Bootstrap
- Wireframes

### Module 5 – Java Script for React

- History of JS
- How JS Works
- Events in JS
- Beginning as a Language
- Prototypes + Closures
- Basics of ES6
- Symbols
- Chrome DevTools

- Manipulating the DOM
- Handling event

## **Module 6 – React Basic**

- Component Architecture
- Single Page Apps v/s Multi-Page Apps
- Babel
- Webpack
- JSX
- Create-react-app
- Conditional rendering

## **Module 7 – Core Component & Styling**

- Project setup
- React Elements
- Render Function
- Components
- Class Component
- Component Constructor
- Functional Components
- Multiple Components
- Props
- Props with Class based Component
- Props with Function based Component
- States
- Component Lifecycle
- React Events
- React Forms
- Different Form Concepts
- Styling in React
- Inline Styling
- CSS Stylesheet

## **Module 8 – Handling Navigation with Routes**

- Routing
- react-router
- Features of react-router
- Configuration of routing using react-router
- Navigation using Links

- URL Parameters
- Nested Routes
- Implementing styles using NavLink
- Application Programming Interface

## **Module 9- Working with React Redux**

- What is Redux?
- Why should we use Redux
- Redux Architecture
- Redux Action
- Redux Reducers
- Redux Store
- Principles of Redux
- Pros of Redux
- NPM Packages required to work with Redux
- More about react-redux package

## **Module 10 – App Deployment**

- Define Jest
- Setup Testing environment
- Add Snapshot testing
- Integrate Test Reducers
- Create Test Components
- Push Application on Git
- Deploy App on Heroku / Azure
- Create Docker for React Application

Call for Price