

REACTJS DEVELOPMENT TRAINING WITH REDUX

Stage One INTRODUCTION TO JAVASCRIPT, BROWSERS AND DOM

<ul style="list-style-type: none">• What is Event driven programming
<ul style="list-style-type: none">• What is Javascript
<ul style="list-style-type: none">• Introduction to DOM
<ul style="list-style-type: none">• How does the browser work
<ul style="list-style-type: none">• Render-Tree construction, layout and paint in Browser
<ul style="list-style-type: none">• DOM traversal(most important part)

Stage Two INTRODUCTION TO REACTJS

<ul style="list-style-type: none">• What is React?
<ul style="list-style-type: none">• Why ReactJS?
<ul style="list-style-type: none">• Setup - React
<ul style="list-style-type: none">• Structure of ReactJS Projects
<ul style="list-style-type: none">• Webpack - the role of package managers or bundlers
<ul style="list-style-type: none">• JSX in detail
<ul style="list-style-type: none">• First React app

Stage Three REACTJS COMPONENTS

<ul style="list-style-type: none">• Intro to React components
<ul style="list-style-type: none">• Thinking in React
<ul style="list-style-type: none">• Component lifecycle
<ul style="list-style-type: none">• Creating a React Component

<ul style="list-style-type: none"> • Rendering multiple components
<ul style="list-style-type: none"> • Nesting Components
<ul style="list-style-type: none"> • How to split an App into components
<ul style="list-style-type: none"> • Comparing Stateless and Stateful Components
<ul style="list-style-type: none"> • Understanding the Component Lifecycle
<ul style="list-style-type: none"> • Converting Stateless to Stateful Components
<ul style="list-style-type: none"> • One Component per File - how to break app in multiple files

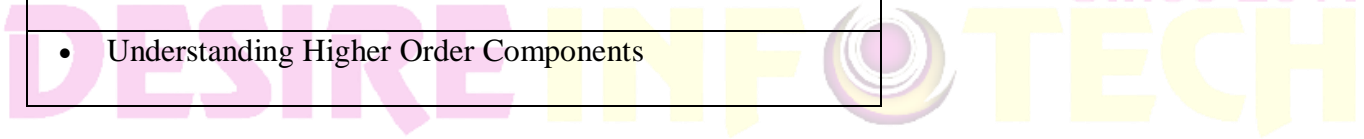
Stage Four **HOW REACTJS WORKS INTERNALLY**

<ul style="list-style-type: none"> • How React Updates the App & Component Tree
<ul style="list-style-type: none"> • Understanding React's DOM Updating Strategy
<ul style="list-style-type: none"> • Understanding Higher Order Components

Stage Five **PROPS, EVENTS AND STATES**

<ul style="list-style-type: none"> • Intro to props
<ul style="list-style-type: none"> • props in action adding props to ReactDOM.render()
<ul style="list-style-type: none"> • Intro to events
<ul style="list-style-type: none"> • Events in action
<ul style="list-style-type: none"> • What is state
<ul style="list-style-type: none"> • Difference between props(immutable) and states
<ul style="list-style-type: none"> • Adding state to the component
<ul style="list-style-type: none"> • Track changing data in your components
<ul style="list-style-type: none"> • Multiple child components
<ul style="list-style-type: none"> • Updating state and removing component
<ul style="list-style-type: none"> • Creating App using states and props

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Stage Six **STYLING REACT APP**

• Setting Styles Dynamically
• Setting Class Names Dynamically
• Using Radium for Media Queries
• Enabling & Using CSS Modules
• Outputting Lists with ngFor
• Practicing Directives
• Mobile Considerations

Stage Seven **WORKING WITH REACT-ROUTER**

• Intro to React Router
• Server vs. Client Routing
• Setting up a 404
• Linking Between Routes
• Navigating Programmatically
• Using Query Parameters
• Redirecting and Wildcard Routes

Stage Eight **HANDLING FORMS IN REACT APP**

• What is web form
• Creating a Custom Dynamic Input Component
• Setting Up a JS Config for the Form
• Dynamically Create Inputs based on JS Config
• Handling User Input
• Handling Form Submission
• Adding Custom Form Validation

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- Showing Error Messages

Stage Nine **REDUX**

- Understanding state management
- Complexity of Managing State
- Intro to redux
- Need for Redux
- Understanding the Redux Flow
- What is an action
- What is store
- Understanding reducer
- Understanding Provider

Stage Ten **REDUX IN ACTION**

- Setting Up Reducer and Store
- Dispatching Actions
- Connecting React to Redux
- Connecting the Store to React
- Dispatching Actions from within the Component
- Practice - Dispatching Actions
- Passing and Retrieving Data with Action
- Switch-Case in the Reducer
- Updating State and arrays immutably

Stage Eleven **REDUX IN ACTION PROJECT USING REACT-REDUX**

- Installing Redux and React Redux

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| <ul style="list-style-type: none">• Basic Redux Setup |
| <ul style="list-style-type: none">• Creating Ticketing App using React and Redux |
| <ul style="list-style-type: none">• Deploying react app on server |
| <ul style="list-style-type: none">• Wrap up let's test how much we learnt so far your feedback |

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