

ReactJS with Redux

Dear Student,

Based upon your enquiry we are pleased to send you the course curriculum for ReactJS

Given below is the brief description for the course you are looking for: -

ReactJS and Redux

Java Script ES 6

Understanding "let" and "const"
Arrow Functions
Exports and Imports
Understanding Classes
Classes
The Spread & Rest Operator
Destructuring
Reference and Primitive Types Refresher
Refreshing Array Functions
Wrap Up

React Basics

JS Array Functions
Understanding the Base Features & Syntax
The Build Workflow
Using Create React App
Understanding the Folder Structure
Understanding Component Basics
Understanding JSX
JSX Restrictions
Creating a Functional Component
Components & JSX Cheat Sheet
Working with Components & Re-Using Them
Outputting Dynamic Content
Working with Props
Understanding the Children Property
Understanding & Using State
Props & State
Handling Events with Methods
To Which Events Can You Listen?
Manipulating the State
Functional (Stateless) vs class (Stateful) Components
Passing Method References Between Components
Adding Two Way Binding

Adding Styling with Stylesheets

Working with Inline Styles
Working with Lists and Conditionals
Rendering Content Conditionally
Handling Dynamic Content "The JavaScript Way"
Outputting Lists (Intro)
Outputting Lists
Lists & State
Updating State Immutably
Lists & Keys
Flexible Lists
Styling React Components & Elements
Outlining the Problem Set
Setting Styles Dynamically
Setting Class Names Dynamically
Adding and Using Radium
Using Radium for Media Queries
Enabling & Using CSS Modules
More on CSS Modules
Adding Pseudo Selectors
Working with Media Queries

React Debugging

Debugging React Apps
Understanding Error Messages
Finding Logical Errors by using Dev Tools & Sourcemaps
Working with the React Developer Tools
Using Error Boundaries (React +)
Diving Deeper into Components & React Internals

Components

Splitting an App Into Components
Comparing Stateless and Stateful Components
Understanding the Component Lifecycle
Converting Stateless to Stateful Components
Component Creation Lifecycle in Action
componentWillUnmount()
Component Updating Lifecycle Hooks
Component Updating Lifecycle in Action
Updating Lifecycle Hooks (Triggered by State Changes)
Performance Gains with PureComponents
How React Updates the App & Component Tree
Understanding React's DOM Updating Strategy
Windows Users Must Read - File Downloads
Returning Adjacent Elements (React +)
React . Feature Fragments

Understanding Higher Order Components (HOCs)

- A Different Approach to HOCs
- Passing Unknown Props
- Using setState Correctly
- Validating Props
- Available PropTypes
- Using References ("ref")
- More on the React ref API (.)
- The Context API (React .)
- More on the Context API (.)
- Updated Lifecycle Hooks (React .)
- The "memo" Method (.)
- A Real App (Basic Version)
- Planning an App in React - Core Steps
- Planning our App - Layout and Component Tree
- Planning the State
- Setting up the Project
- Creating a Layout Component

Starting Implementation of The App

- Adding a Dynamic Ingredient Component
- Adding Prop Type Validation
- Starting the Burger Component
- Outputting Burger Ingredients Dynamically
- Calculating the Ingredient Sum Dynamically
- Adding the Build Control Component
- Outputting Multiple Build Controls
- Connecting State to Build Controls
- Removing Ingredients Safely
- Displaying and Updating the Burger Price
- Adding the Order Button
- Creating the Order Summary Modal
- Showing & Hiding the Modal (with Animation!)
- Implementing the Backdrop Component
- Adding a Custom Button Component
- Implementing the Button Component
- Adding the Price to the Order Summary
- Adding a Toolbar
- Adding Reusable Navigation Items
- Creating a Responsive Sidedrawer
- Working on Responsive Adjustments
- More about Responsive Adjustments
- Reusing the Backdrop
- Adding a Sidedrawer Toggle Button
- Adding an Icon

Improving the App - Introduction

Prop Type Validation
Improving Performance
Using Component Lifecycle Methods
Changing the Folder Structure

Reaching out to the Web (Http / Ajax)

Understanding Http Requests in React
Understanding our Project and Introducing Axios
Creating a Http Request to GET Data
Rendering Fetched Data to the Screen
Transforming Data
Making a Post Selectable
Fetching Data on Update (without Creating Infinite Loops)
POSTing Data to the Server
Sending a DELETE Request
Fixing a Bug
Handling Errors Locally
Adding Interceptors to Execute Code Globally
Removing Interceptors
Setting a Default Global Configuration for Axios
Creating and Using Axios Instances
Burger Builder Project Accessing a Server
Firebase & The Right Database
Creating the Firebase Project
Creating the Axios Instance
Sending a POST Request
Displaying a Spinner while Sending a Request
Handling Errors
Retrieving Data from the Backend
Removing Old Interceptors

Multi-Page-Feeling in a Single-Page-App Routing

Routing and SPAs
Setting Up Links
Setting Up the Router Package
react-router vs react-router-dom
Preparing the Project For Routing
Setting Up and Rendering Routes
Rendering Components for Routes
Switching Between Pages
Using Links to Switch Pages
Using Routing-Related Props
The "withRouter" HOC & Route Props
Absolute vs Relative Paths
Absolute vs Relative Paths (Article)

Styling the Active Route
Passing Route Parameters
Extracting Route Parameters
Parsing Query Parameters & the Fragment
Using Switch to Load a Single Route
Navigating Programmatically
Additional Information Regarding Active Links
Understanding Nested Routes
Creating Dynamic Nested Routes
Redirecting Requests
Conditional Redirects
Using the History Prop to Redirect (Replace)
Working with Guards
Handling the Case (Unknown Routes)
Loading Routes Lazily
Lazy Loading with React Suspense (.)
Routing and Server Deployment
Time to Practice - Routing
question
Adding Routing to our Burger Project
Building the Checkout Container
Setting Up Routing & Routes
Navigating to the Checkout Page
Navigating Back & To Next Page
Passing Ingredients via Query Params
Navigating to the Contact Data Component
Order Submission & Passing Data Between Pages
Adding an Orders Page
Implementing Navigation Links
Fetching Orders
Outputting the Orders
Forms and Form Validation
Analyzing the App
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 Gotcha
Adding Validation Feedback
Improving Visual Feedback
Showing Error Messages

Handling Overall Form Validity
Working on an Error

Redux

Understanding State
The Complexity of Managing State
Understanding the Redux Flow
Setting Up Reducer and Store
Dispatching Actions
Adding Subscriptions
Connecting React to Redux
Connecting the Store to React
Dispatching Actions from within the Component
Time to Practice - Dispatching Actions
Passing and Retrieving Data with Action
Switch-Case in the Reducer
Updating Arrays Immutably
Immutable Update Patterns
Outsourcing Action Types
Combining Multiple Reducers
Understanding State Types

Time to Practice - Redux Basics

Combining Local UI State and Redux
Adding Redux to our Project
Installing Redux and React Redux
Basic Redux Setup
Finishing the Reducer for Ingredients
Connecting the Burger Builder Container to our Store
Working on the Total Price Calculation
Redux & UI State
Adjusting Checkout and Contact Data
Redux Advanced
Adding Middleware
Using the Redux Devtools

Executing Asynchronous Code - Introduction

Introducing Action Creators
Action Creators & Async Code
Handling Asynchronous Code
Restructuring Actions
Using Action Creators and Get State
Using Utility Functions
A Leaner Switch Case Statement
Installing the Redux Devtools
Redirect to Improve UX
Combining Reducers

ReactJS with Redux

Handling Purchases & Updating the UI
 Resetting the Price after Purchases
 Fetching Orders (via Redux)
 Checking our Implemented Functionalities
 Refactoring Reducers
 Refactoring Reducers
 Forwarding Unauthenticated Users
 Redirecting the User to the Checkout Page
 Persistent Auth State with localStorage
 Fixing Connect + Routing Errors
 Ensuring App Security
 Guarding Routes
 Displaying User Specific Orders
 Adding Lazy Loading
 Deploying the App to the Web

Redux with local stores

Course Duration	2.5 to 3 Months with Project
Fees	Call or WhatsApp at 9015041412 to Know
Slots	Weekends
Placement	yes, http://www.techaltum.org/

Trainer Profile

8+ Years' Experience in Software development

2+ Years' Experience in ReactJS

Involved in Corporate Training from last 5 Years.