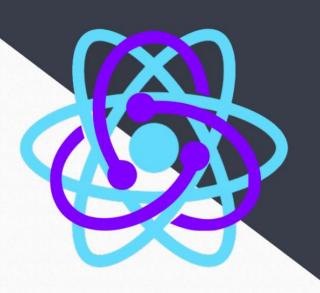
React Certification Training





React Certification Training

About the Course

The React certification training is primarily designed for UI Developer(s)/Web Developer(s) who want to learn how to develop high-performance, event-driven, real-time, and scalable applications.

In this training, you will learn JavaScript, ES6, React, React Router, Formik, Yup, and Redux. Here you will learn objects, classes, functions, components, routing, State and Lifecycle, JSX, Forms, data flow, actions, and much more.

Course objective

At the completion of this course, attendees will be able to;

- Describe JavaScript and ES6 concepts like objects, classes, and arrow functions.
- Explore React basic and advanced in-depth concepts.
- Create components, Hooks and routes, etc.
- Explore Redux's basic and advanced in-depth concepts
- Consume REST API.
- Create and validate Forms using Formik and Yup.
- Secure application based on user roles.
- Scale SPA for Phones, Tablets, laptops & desktops using Bootstrap.
- Build end-to-end SPA using React Hooks and Functional components.
- Publish React App to IIS or cloud.

Who can do this course?

All professionals who are keen to develop high-performance web applications should go for this course.

Pre-requisites

Anyone who wants to learn to React with Redux should have a basic knowledge of programming.

Software/Tools

Visual Studio Code, Node.js, React CLI



Course Curriculum

Module 1

JavaScript and ES6

- Understanding JavaScript
- Understanding ES6
- JavaScript Data Types Primitive & Non-Primitive
- Naming a variable
- Number Mathematics

var, let and const

- Using var
- Using let
- Using const

Functions and Arrow Function

- Different types of Functions
- Named Function
- Anonymous Function
- Arrow Function
- Anonymous Function vs. Arrow Function

Objects and Constructor Function

- Creating Object
- Literal Object
- Primitive types as Objects
- Constructor Function

Class and Methods

- ES6 Class
- Class Members
- Templated String

Module 2

Introduction to React

- Introduction to React
- Why React?
- Advantages of React
- React Development Style

Setting Up Environment

- Installing Node.js
- Installing Visual Studio and Visual Studio Code
- Useful VS Extensions for React Development
- Useful VS Code Extensions for Angular Development





Get Started with React

- Setting up the React App
- Running the React App
- React Initialization Process
- React Virtual DOM
- React Ecosystem
- React versus other frameworks

JSX

- Introduction to JSX
- JSX for components
- Attributes
- Expressions
- React without JSX

Module 3

React Components

- Render Elements
- Understanding Component
- Creating a Component
- Types of Components
- Functional Components
- Class Components

Advanced React Components

- Component Lifecycle
- Virtual DOM
- Composition
- Communication between Components
- Reusable Components

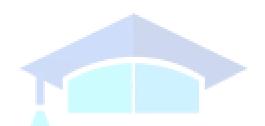
Module 4

Data Flow

- Introduction to One Way Data Flow in React
- Props and State
- Passing Data to Child Component
- Handling State of Component

Event and Actions

- Events in React
- Data Binding
- Events and Actions
- Handling Events
- Communication Among Components





React Hooks

- Introduction to Hooks
- Need of Hooks
- React Built-in Hooks: useState, useEffect etc.
- Hooks in Action

Module 5

Routing using React Router

- Understanding Routing
- Introduction to React Router
- Defining Routes
- Routes Handling

React Router with Hooks

- React Router Hooks
- Handling Route Parameters
- Nested Routes

Module 6

React Forms and Controls

- Introduction to React Forms
- Creating Forms
- Forms Validations

Formik and Yup

- Introduction to Formik
- Creating Controls
- Validation Using Yup

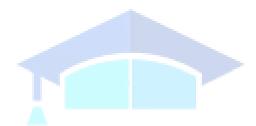
Module 7

Unit Testing

- Introduction to Unit Testing
- React Unit Testing setup
- React Unit Testing frameworks
- Unit Testing with TestUtils

Testing React Components

- Testing Components
- Testing DOM Manipulations
- Testing Properties and State
- Simulating Events





Module 8 (Project)

Discussing Project Architecture

- Understanding Application Architecture
- Discussing Application Entities Properties
- Discussing Relationship among Application Entities

Developing Application Architecture

- Creating Server building blocks
- Creating Client-Side building blocks

Designing DB and REST Service

- Designing Database
- Developing REST API

Developing Frontend using React

- Defining Modules User, Admin
- Defining Routing
- Developing User Login and Signup Page
- Developing User and Admin Dashboard

Module 9 (Project)

Security

- Implementing Token-based Authentication
- Managing User session
- Implementing Authorization

Route Protection

- Protecting a Route from Unauthorized Access
- Need of Route Protection

Category and Product Listing

- Category CRUD Operations
- Product CRUD Operations

Module 10 (Project)

Shopping Cart

- Creating Shopping Cart
- Adding Products to Shopping Cart
- Removing Products from Shopping Cart

Deployment

- React Hosting Options
- Hosting React App.



Build React Real-World Projects

Apply your coding skills to solve real-world problems. You'll learn how to start a project from scratch by following recommended architecture, practices and deploy to the server.



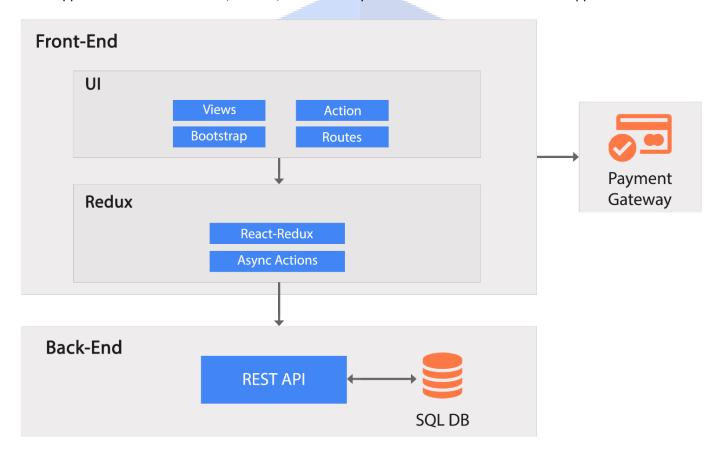




Project Architecture

The primary purpose of application architecture is to support the development life cycle of the system. Good architecture makes the system easy to understand, easy to develop, easy to maintain, and easy to deploy. The ultimate benefit of the architecture is to minimize the lifetime cost of the system and to maximize programmer productivity.

The goal of the given architecture is to learn and implement important principles and design patterns to build various domains applications like eCommerce, edTech, Food Delivery or other Service based industries applications.





What will you learn through the project?

- Build an OTT platform using Hooks and Functional components.
- Creating Movies Listing Page.
- Movies CRUD operations.
- Creating a shopping cart using React.
- Integrating payment gateway.
- Validating data at the client-side and server-side.
- Using Node's Package Manager NPM.
- Validate Forms using Formik and Yup.
- Scaling web apps for Phones, Tablets, and laptops & desktops.
- Securing your application based on user roles.
- Publishing your app on the cloud server.

Contact Us

- For more information about the course, visit: www.scholarhat.com/training/react-certification-training
- Feel free to call us at +91 9999 123 502 or email us at hello@scholarhat.com



