

React Using Typescript

By Dr. Vishwanath Rao

Prerequisites

- Basic HTML and CSS skills
- Intermediate JavaScript skills

Objectives

- Identify the right set of structures and state containers for your React application
- Understand and use React, React Router, and other popular libraries
- Use styled-components to create presentational components (CSS in TSX)
- Implement server-side rendering for SEO benefits and to reduce initial load times
- Create, build, and deploy a React.js application using the React.js CLI
- Using MS UI Fabrics for interactive UI development

Day 1

1. Introduction to ES6 and Typescript

Learn major concepts of ES6 standards and Typescript using OOP concepts

2. React 16 +

This is a complete hands-on training program with all the new features of recently released React 16.8

3. Explore ES6 & beyond

Learn concepts of modern JS starting with ES6 and go beyond with further versions

4. TSX

Learn how to code UI using declarative syntax JSX

5. Components

Create components, decompose UI into smaller components and compose them

to make larger pages

Day 2

6. State management

Learn how to manage state in react applications and best practices

7. Code splitting & Lazy loading

Understand the need to code splitting and know how to implement the same

8. Hooks & context

Use the advantages of hooks to power function components with state, life cycle and context access

9. Routing

Learn how to implement routing in react application using react-router

10. Isomorphic React

Learn the benefits of universal react and how to implement

Day 3

11. HTTP Communication

Using Fetch to achieve HTTP based client-server communication
Working with REST API

12. Integration of React and Microsoft UI fabrics

Learn few important components usage with React

13. Unit testing

Learn how to unit test react applications using jest & enzyme

14. Debugging

Learn how to debug react applications using chrome and vscode