

React (Vanilla JS) Outline

Pre-Requisites

- HTML5
- CSS3
- Javascript Core & Javascript DOM,BOM
- Understanding of REST API's
- SOLID Principles

Day 1 (ES6)

- Introduction to callback queue
- Understanding and using npm
- Installing babel & understanding it's usage
- Understanding let & const
- Using arrow functions
- Default arguments
- Spread operator
- Getters and setters
- Understanding promises

Day 2

- Npm fundamentals
- Module bundling using webpack
- Introduction to reactjs
- React environment setup: using CRA (react devtools)
- Application structure of react app
- Understanding Components in react
- Functional components
- Stateful components
- Creating and using components
- Understanding atomic designing in react

Day 3

- Conditional rendering of components
- Component interaction using props
- Props validation & default props
- Using Component Lifecycle
- Understanding and using states in react
- Handling events
- Working with lists in react
- Using ref in react
- Working with forms in react
- Making http api calls
- Introduction to making SPA (using react router dom)

- Defining routes & navigation links

Day 4

- Using context API
- Introduction to React Hooks
- Understanding the role of react hooks
- Working with built in hooks (useState, useEffect, useContext)
- Understanding flux and its usage

Day 5

- Implementing redux in app (redux devtools)
- Creating store and using in app
- Defining reducers and actions
- Connecting components to store
- Understanding problems of react redux
- Implementing Authentication and Authorization
- Introduction to RxJs
- Using lazy and suspense
- Building app and publish
- Unit testing using RTL & jest
 - Service & mocking
 - Component
 - hooks

H/W

- i3 core processor or above
- 20GB free HDD space
- Min 4GB RAM
- Windows/Linux/MacOs

S/W

- Node JS (v14 or above) : <https://nodejs.org/en/>
- Google Chrome : <https://www.google.com/chrome>
- VS Code : <https://code.visualstudio.com/download>