

# React JS



**React JS is the most popular JavaScript framework and platform for developing client-side (front-end) mobile and desktop web apps or single page applications (SPAs).**

## HTML

### Introduction to HTML

- headings
- paragraph
- formatting tags
- image
- anchor
- lists
- table
- id
- class
- iframe
- div
- span
- form
- audio
- video
- html vs html5

## CSS

### Introduction to CSS

- ways to use CSS (inline , internal, external)
- css selectors
- css color
- border
- padding
- margin
- height
- width
- lists
- text
- display (none, inline , block , inline - block)

- flex
- grid
- position
- z-index
- media

## Java Script

### Js Basics

- keywords
- identifiers
- datatypes
- variables and constants
- tokens
- operators

## Decision Making Statements

### Conditions Statements Or Selection Statements

- if
- if else
- nested if else
- if else if ladder
- switch case

### Iteration Statements Or Loops

- for
- while
- do while
- for in
- for of

### Jump Statements

- continue
- break

### Functions

- function declarations, definitions and calling
- types of functions
- anyonomous functions
- flat arrow functions or arrow functions
- self invoked function (IIFE)
- storage classification or varibale scope (var let const and without keywords)
- recursion

### Strings Methods

### array Methods

### Global Execution Context and Function execution context

- scope chain rule and lexical scoping
- closure

## **Objects**

- literal and keys
- object functions
- nested objects
- Object Prototypes
- setter and getter methods

## **Set and Map**

## **WeakMap and WeakSet**

## **Dates and Time**

## **OOPS**

- literal and keys
- object functions
- nested objects
- Object Prototypes
- setter and getter methods

## **DOM Manipulation**

- DOM
- BOM
- event handling
- time based events

## **Advanced Js**

### **How Javascript Works**

- hoisting
- strict mode
- closure
- synchronous and asynchronous programming

### **Event propagation**

- bubbling
- capturing

### **Event loop**

### **function curring**

### **ajax and json**

### **calling api using ajax**

### **callback hell**

### **promise**

### **async await**

### **fetch**

### **modules**

### **version**

## Typescript

- Why Typescript
- Basic Types
- Class and Interfaces
- Modules

# React Js

## INTRODUCTION TO REACT JS

- What is React JS?
- What is SPA?
- DOM vs Virtual DOM
- Advantages and Disadvantages
- Key Features

## ENVIRONMENTAL SETUP

- Node | NPM
- Installation of CLI
- Setup Project
- Directory Structure
- Code Editors
- How React JS Application Boot

## BASIC FEATURES OF REACT JS

- React Concepts
- JSX and TSX
- Render Elements
- Function and Class Components
- Props and State
- Handling Events
- Dynamic Data Rendering
- Property Binding

## KEY FEATURES OF REACT JS

- Conditional Rendering
- List and Keys
- Forms Handling
- Forms Validations

## COMPONENT LIFECYCLE HOOK

- Understanding component lifecycle
- All Lifecycle Hooks

## EVENT HANDLING REACT

- Understanding React Event System
- Passing arguments to event Handlers

## NETWORK CALL

- Fetch
- Axios

## CUSTOM SERVICES

- Introduction to Services
- Building a Service

## LOCAL DATA STORAGE

- Local Storage
- Session Storage
- Cookies

## ROUTING WITH REACT ROUTER

- Setting up React Router
- Configuring route with Route Component
- Making routes dynamic with Route Params

- Working with nested routes
- Link and NavLink
- Redirect Routes

## UI COMPONENTS

- Material Design
- PrimeNG

## INTRODUCTION TO REDUX

- Why Redux
- Install and setup
- Store ,Reducer , actions
- Dispatcher
- High order Components
- mapStateToProps and mapDispatchToProps usage

## ADVANCE REDUX

- Async Actions
- Middleware
- Redux Thunk and Redux Saga

## React Hooks

- Why We Need Hooks.
- Different Types Of Hooks
- Using State And Effect Hooks
- Usereducer , Userref Etc.
- Custom Hooks
- Rules Of Hooks

## Third Party Modules

- Social Login
- Pagination
- Search
- Filter
- JWT Token
- File Upload
- Many More

## Rest Js Testing

- Jest with Enzyme

## Develop a CRUD Application in React Js React JS Application Deployment

- Build Application and Deployment

Partners :



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