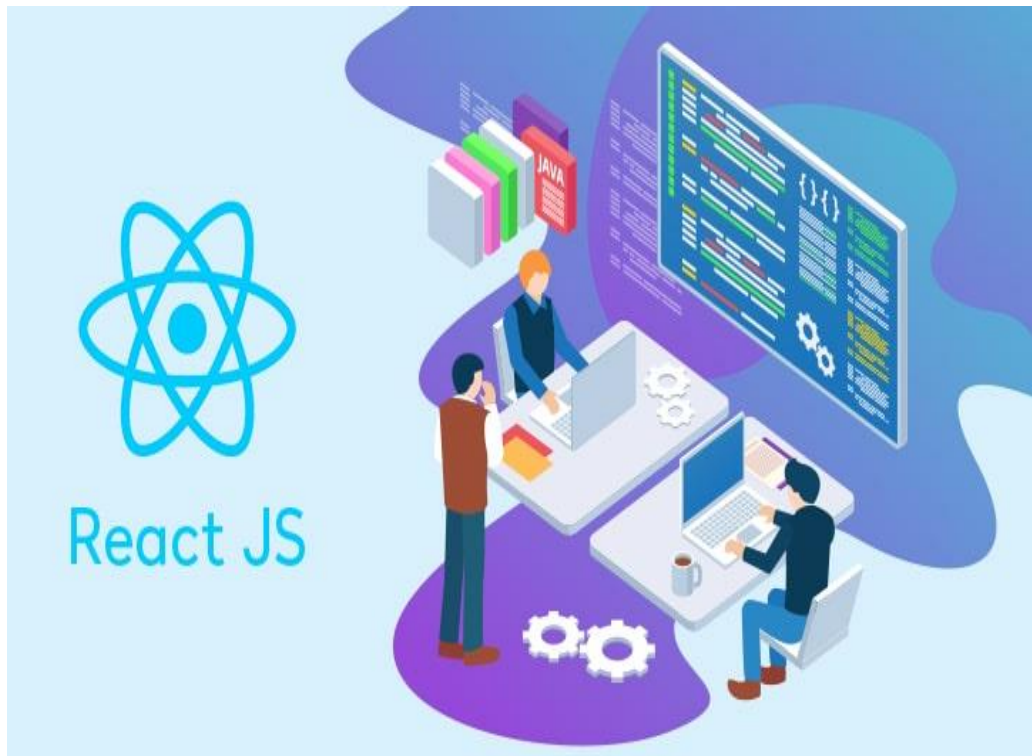




Training | Consulting | Development | Outsourcing



React JS

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# React JS

## Course Overview:

ReactJS presents graceful solutions to some of front-end programming's most persistent issues. It's fast, scalable, flexible, powerful, and has a robust developer community that's rapidly growing. React JS is a new age UI (user interface) tool that is more interactive and flexible as compared to most other tools. It comprises of components which are re-usable and easy to use. This course helps to learn how to use ReactJS and the Redux library to create next gen web applications. It covers all the practical aspects of developing with React, managing data and server communication with Redux.

## Course Outline:

### 1. Introduction to React JS

- What is React?
- Hello React
- Using the create-react-app

### 2. Components

- What are Components?
- Types of Components
- JSX

### 3. State & Props

- What is State?
- Stateful Function Components with Hooks
- What are props?
- Type Checking with Prop Types

### 4. Rendering Lists

- Using the map function to render lists
- The "key" attribute

- Using Fragments

## **5. Components Revisited**

- Lifecycle of a Component
- Side effects & Lifecycle
- Managing cleanup
- Events
- Error Management

## **6. Building Forms**

- Controlled Form Components
- Uncontrolled Form Components
- Handling inputs efficiently
- Project - Building a currency converter

## **7. Render Props & Higher Order Components**

- Render Props
- Higher Order Components

## **8. Portals**

- Introduction to Portals
- Event bubbling in Portals

## **9. Global Shared Data**

- Unidirectional Data Flow
- Challenges with Props
- The Context API

## **10. Hooks in Focus**

- Understanding Hooks
- The useState hook
- Side effects using the useEffect hook
- The useContext hook
- The useReducer hook

- Writing your own hook

## 11. GraphQL

- What is GraphQL?
- Cons of Rest API
- Pros of GraphQL
- Frontend backend communication using GraphQL
- Type system
- GraphQL datatypes
- Modifiers
- Schemas
- GraphQL tool
- Express framework
- NPM libraries to build server side of GraphQL
- Build a GraphQL API
- Apollo client
- NPM libraries to build client side of GraphQL
- How to setup Apollo client

### Prerequisites:

- Fundamentals of programming and object-oriented concepts
- Basic knowledge of HTML & CSS3
- Intermediate working knowledge of JavaScript

### Who Can attend:

- Freshers and Aspiring Frontend (JavaScript) Developers
- UI/UX Developers
- Web Developers
- Software Developers
- Developers upgrading from Angular, Vue and other similar UI JavaScript Frameworks

 **Number of Hours: 30hrs**

 **Certification: None**

 **Key Features:**

- One to One Training
- Online Training
- Fastrack & Normal Track
- Resume Modification
- Mock Interviews
- Video Tutorials
- Materials
- Real Time Projects
- Virtual Live Experience
- Preparing for Certification