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ReactJS Syllabus

Course Objectives:

- ➤ React is a declarative, efficient, and flexible JavaScript library for building Web Applications.
- > It follows component-based approach.
- Easy to create smaller components and build large-scale applications.
- ➤ The main goal is to build large-scale high-performance applications with smaller and reusable stateful components.
- The main objective of React Training is to create smaller components to build Interactive User interfaces..

Introduction

- What is ReactJS?
- Installation or Setup
- Hello World with Stateless Functions

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- ➤ Absolute Basics of Creating Reusable Components
- Create React App
- > Hello World
- ➤ Hello World Component

Components

- Creating Components
- Basic Componeents
- Nesting Components
- Props
- Component states Dynamic user-interface
- Variations of Stateless Functional Components
- > setState pitfalls

Using ReactJS with TypeScript

- ReactJS component written in TypeScript
- Installation and Setup
- Stateless React Components in TypeScript
- > Stateless and property-less Components

State in React

- Basic State
- Common Antipattern
- > setState()
- State, Events And Managed Controls

Props in React

- Introduction
- Default props
- PropTypes
- Passing down props using spread operator

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- Props.children and component composition
- > Detecting the type of Children components

React Component Lifecycle

- Component Creation
- Component Removal
- Component Update
- Lifecycle method call in different states
- > React Component Container

Forms and User Input

- Controlled Components
- Uncontrolled Components

React AJAX call

- ➤ HTTP GET request
- > HTTP GET request and looping through data
- > Ajax in React without a third party library a.k.a with Vanilla

Communication Between Components

- Child to Parent Components
- Not-related Components
- > Parent to Child Components

Stateless Functional Components

Stateless Functional Component

Performance

- Performance measurement with ReactJS
- ➤ React's diffs algorithm
- > The Basics HTML DOM vs Virtual DOM.

Introduction to Server-Side Rendering

Rendering components

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Setting Up React Environment

- Simple React Component
- > Install all dependencies
- Configure webpack
- Configure babe
- > HTML file to use react component
- > Transpile and bundle your component

Using React with Flow

- Using Flow to check prop types of stateless functional components
- Using Flow to check prop types

JSX

- Props in JSX
- Children in JSX

Keys in react

- Using the id of an element
- Using the array index

Higher Order Components

- ➤ Higher Order Component that checks for authentication
- Simple Higher Order Component

React with Redux

Using Connect.