React JS

60 Hours

(Basic + Intermediate+Advanced)

Programming & Development

Pre-requisite / Target Audience:

- ➢ Basic Knowledge of JavaScript and OOPS
- ➢ Knowledge in async programming will be added advantage

Introduction:

- ➢ HTML Basics
- ➢ HTML Elements
- ➢ HTML Attributes
- ➢ HTML Styles
- ➢ HTML Forms
- ➢ HTML Form Elements
- ➢ HTML Input Element Types
- ➢ HTML Input Attributes
- ➢ HTML File Paths Script tag and its uses
- ➢ HTML & XHTML CSS
- ➢ Introduction CSS Syntax CSS Selectors CSS Styling

Java Script :

- ➢ Introduction to JavaScript
- ➢ JavaScript Statements
- ➢ JavaScript Keywords
- ➢ JavaScript Functions
- ➢ JavaScript Programs
- ➢ JavaScript Operators
- ➢ Function Parameters
- ➢ Function Return Values
- ➢ JavaScript Data Types
- ➢ Primitive Types

Java Script & Objects:

- ➢ Object Overview
- ➢ Object Oriented Programming
- ➢ Object creation
- ➢ Adding Properties to Objects
- ➢ Adding Methods to Objects
- ➢ JavaScript Conditional Statements
- ➢ JavaScript Loops & Iteration
- ➢ Enumerating properties
- ➢ Call-backs
- ➢ JSON

Introduction to React

In this module, You will learn about the introduction of react Js, Advantages and Limitation of react is. You can   understand how to setup the react js environment using ASP.NET MVC.

- ➢ What is React JS
- ➢ Advantages of React JS
- ➢ Limitation of React JS
- ➢ Installation

JSX

In this Module, You will learn about the Jsx syntax,Jsx Parser,Comments in jsx and naming Conventions in jsx.

- ➢ Overview of JSX
- ➢ Rendering an Element into the DOM
- ➢ Naming Conventions

Components

In this module, You will learn about the What is Components,Props and state

- ➢ Overview of Components
- ➢ Props
- ➢ State

Components Life cycle

In this module, You will learn about the Life Cycle of component and reusing of Component.

- ➢ Life Cycle methods
- ➢ Reusable Components

Forms

In this module, You will learn about submitting the form data to sever using react component and updating state.

- ➢ Creating a form app.jsx
- ➢ Creation of main.js
- ➢ Debugging the app using react.js

Props Validation

In this module, You will learn about the Validating Props.

- ➢ Using props
- ➢ Using App.propTypes in app.
- ➢ Using App.defaultProps in app.

Events

 In this module, You will learn about the Call back events.

- ➤ Using `onClick` in app.
- ➤ Using event to call `trigger updateState` function in app.

API Calls

 In this module, You will learn about the calling the services using react and Rendering the element into DOM.

- ➤ Using WebApi

Using Flux

In this Module,you will learn about the Flux pattern, Limitations of Flux and Flux Elements.

- ➤ Overview of Flux
- ➤ Flux Elements
- ➤ Limitations of Flux

Advantages of Flux

Animations

In this Module, You will learn about the Animation using react Components.

Install React CSS Transitions Group

Adding css file

Creating a react component using **ReactCSSTransitionGroup**

Using **transitionAppear** , **transitionAppearTimeout**,**transitionEnter** and **transitionLeave**

Project:

Real-time Project involving most of the above concepts with following will be provided

- Product Abstract Document
- Requirement Specification Document
- Step-by-Step procedure for building the project from ground up
- Complete Source Code
- Database Script with Sample data
- Instructions to Setup the Project on a Development
- Instruction to Deploy the project on Production