JS Training Content

- ❖ **Explain JavaScript, JavaScript History, Comparison of JavaScript from other script**
- ❖ **Type of Js library**
- ❖ **JavaScript features**
- ❖ **What is variable, constant and literals (Var , const and let)**
- ❖ **Basic JS Structure, Output function in JS, Console.log**
- ❖ **First Hello Word Program of JavaScript, Addition Program, Swap Program, etc.**
- ❖ **Data type of JS with examples.**
- ❖ **Operator and Conditional Statements**
- ❖ **(if, if—else, nested, else if, multiple if).**
- ❖ **Loop(for, while, nested for) and Switch Statement, Nested Switch Statement.**
- ❖ **Array (One dimension, Multidimensional), Array Method**
- ❖ **String class, String Method, String search, Numbers, Number Method**
- ❖ **Date time in Js, Date time methods in JS, Type of method in JS**
- ❖ **JavaScript functions, Arrow Function, this keyword**
- ❖ **JS Hoisting, Strict Mode, JS Regular Expression**
- ❖ **OOP's Introduction, Class and Object , Data abstraction, Encapsulation,**
- ❖ **Polymorphism, Constructor, Accessors, Prototypes, Iterables, Sets, Maps, Reference,**
- ❖ **Optional Chaining, Garbage Collection**
- ❖ **What is DOM and BOM, Html form elements interaction using JS, CSS and Animation**
- ❖ **Function in JS, Event method of JS,JS Window, JS Screen, JS Location, Cookies, JS History, JS**
- ❖ **Dialog(alert, confirm, prompt), form validation.**
- ❖ **JSON intro, JSON Data type, Parsing of JSON Data, JSON Array**

Exception Handling, JS Debugging

JS ES6 Training Content

- ❖ **Let and const keyword,**
- ❖ **Default parameters,**
- ❖ **For..of loop**
- ❖ **Template literals, Rest Parameters, Spread Operator,**
- ❖ **String Buffer in JavaScript**
- ❖ **Arrow function, Map objects, set objects**
- ❖ **Promises, sync, Await, Symbol**
- ❖ **Function Closure, Function Apply, Function Invocation**
- ❖ **Module in ES6, Export and import**
- ❖ **Spread operator**
- ❖ **Map and foreach to display Data**

React JS Training Content

Introduction Session

- ❖ **What is MERN**
- ❖ **What is JavaScript, explain features of Java Script**
- ❖ **What is Mongo DB**
- ❖ **What is REACT JS**
- ❖ **WHAT is NODE JS**
- ❖ **What is Express JS**
- ❖ **What is Full stack Web Developer**
- ❖ **Difference between React and Angular**

REACT Installation and Software Tools

- ❖ **What is VS Code, Download and install it**
- ❖ **React JS Step by Step Installation**
- ❖ **What is CLI**
- ❖ **CLI Based Command to Create React JS Project**
- ❖ **REACT JS Project Architecture**
- ❖ **REACT JS Life Cycle**
- ❖ **REACT JS Configuration files explanation**
- ❖ **Create First Hello World Component**

- ❖ **What is JSX**
- ❖ **JSX Operator**
- ❖ **Conditional Statement in JSX**
- ❖ **Loop in JSX**
- ❖ **How to Write HTML in JSX**
- ❖ **How to call CSS file in JSX**
- ❖ **Difference between JS and JSX**

Component in React JS

- ❖ **What is Component, Type of Component**
- ❖ **Uncontrolled Component in React JS**
- ❖ **Uncontrolled Functional Component in React JS**
- ❖ **Uncontrolled Class Component in React JS**
- ❖ **Controlled class Component in React JS**
- ❖ **Controlled functional component in React JS**
- ❖ **Functional Component with Arrow Function**
- ❖ **Explain React life cycle methods using Class Component**

State & Props

- ❖ **What is state**
- ❖ **How to declare state in Class Component**
- ❖ **How to declare state in Functional Component**

Hooks in React JS

- ❖ **What is Hooks**
- ❖ **Type of Hooks**
- ❖ **Create Custom Hooks**
- ❖ **How to use use Effect, use Layout Effect**
- ❖ **What is use State, use Ref, use Callback, use Memo and use Context**

React List & keys

Routing in React JS

- ❖ **What is Routing**
- ❖ **How to create Routes object**
- ❖ **Create Path for multiple Apps and create Link**
- ❖ **How to pass data using Route Parameters**
- ❖ **React routing using navigation**

HTML Template & Bootstrap Integration in React JS

- ❖ **Download or Create HTML Template**
- ❖ **Integrate HTML Template Under React JS Application**
- ❖ **How to Integrate Adminlte Template Under React JS**
- ❖ **What is Outlet in React APP**
- ❖ **How to use css in React JS**
- ❖ **How to use Bootstrap in React JS**
- ❖ **Animation and dynamic effect in React Js**

Form in React JS

- ❖ **Create Form using Textfield, Radiobutton and Checkbox with All type of Components**
- ❖ **Create Form using Dropdownlist, Listbox using all type of component**
- ❖ **What is Props**
- ❖ **How to pass data from one component to another using Props**
- ❖ **How to pass List and Map type of Object using Props**
- ❖ **Template driven form**
- ❖ **Reactive Form**
- ❖ **Client side form validation in react js**

How to Use API in React JS

- ❖ **What is API , Type of API**
- ❖ **Testing tools of API, Postman & Swagger**
- ❖ **How to create dummy API**
- ❖ **How many ways to consume API**
- ❖ **What is Fetch , Manage Insert, Update, Delete and Select Operation using Fetch**
- ❖ **What is AXIOS, Manage CRUD Operation using AXIOS**

❖ **Create Local JSON file and generate API Urls and Manage GET, POST, PUT, DELETE Operation Difference between Fetch and AXIOS**

Redux in React JS

❖ **What is Redux**
❖ **Flow of Redux , Explain View, Actions, Triggers, Reducers and Store**
❖ **Create Simple Application using Redux**
❖ **Advantage of Redux**
❖ **Difference between Flux and Redux**

NODE JS Training Content

❖ **Introduction Session**
❖ **What is NODE JS**
❖ **Features of NODE JS**
❖ **Node JS Engine & Library**
❖ **Code Execution of NODE JS**

NODE Installation and Software Tools

❖ **How to download and Install Node JS**
❖ **What is NPM**
❖ **Adding dependnacy in package.JSON file**
❖ **Installing package globally**
❖ **Working in REPL**
❖ **NODE JS Console**

NODE JS Modules

❖ **Functions**
❖ **Buffer**
❖ **Module and Module Type**
❖ **Core Modules**
❖ **Local Modules**
❖ **Modules. Exports**

Creating Web Server

- ❖ **What is http module**
- ❖ **Handling Http Request**
- ❖ **Sending Request**

File handling concept in Node JS

- ❖ **What is fs module**
- ❖ **Reading a file, Writing a file**
- ❖ **Reading and Writing file Asynchronous mode**
- ❖ **Deleting a file**
- ❖ **Complete file handling operation**

Event in Node JS

- ❖ **What is event**
- ❖ **Event Emitter class**
- ❖ **Retouring Event Emitter**
- ❖ **Inheriting Events**

NODE JS Database Connectivity

- ❖ **Connect NODE JS from Mongo DB**
- ❖ **Perform CRUD Operation using Mongodb database**
- ❖ **Perform CRUD Operation using MYSQL Database**

NODE JS File Uploading Concept

- ❖ **How to upload file under NODE JS Server**

Express JS Training Content

Introduction Session

- ❖ **What is Express JS**
- ❖ **Features of EXPRESS JS**
- ❖ **How to Install Express JS in Machine**
- ❖ **Code Execution of Express JS**

Express JS with NODE JS

- ❖ **Configure Routes**
- ❖ **How to create API using Node Js**
- ❖ **What is body parser**
- ❖ **What is CORS and how to embed it**
- ❖ **Create API using GET, POST, PUT, Delete and Patch Method**
- ❖ **How to use Security in API**

Mongo DB Training Course

- ❖ **Introduction Session**
- ❖ **What is Mongo DB**
- ❖ **Features of Mongo DB**
- ❖ **How to Install Mongo DB Machine**
- ❖ **JSON Structure and Introduction**

Mongo DB CRUD Operation

- ❖ **What is Documents and Collection**
- ❖ **Create Database, Create Collection**
- ❖ **Show database**
- ❖ **Insert, Update, Delete and Select Record**
- ❖ **Mongo db Query Operators**
- ❖ **Find Record from database based on condition**

Integration using Mongo, Express, React and Node:-

Integration Step

- ❖ **Create Form using React JS for Registration and Login**
- ❖ **Create API in NODE JS using Express and store data under Mongo**
- ❖ **Call API using React JS Application**