



M



E



R



N

STACK

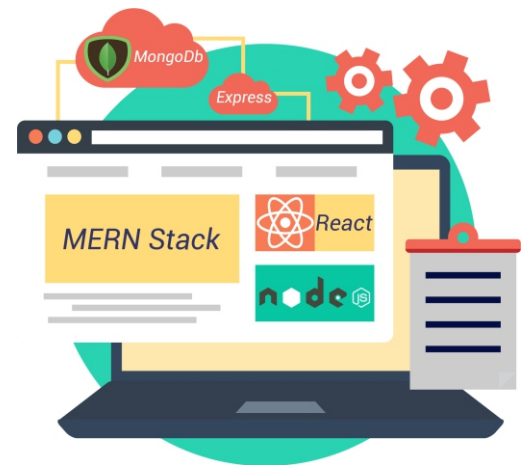


THE MERN STACK

MERN Stack Consists of Four Technologies.

M - MongoDB
E - Express
R - React
N - Node

All these technologies are built on JavaScript.



MongoDB:-

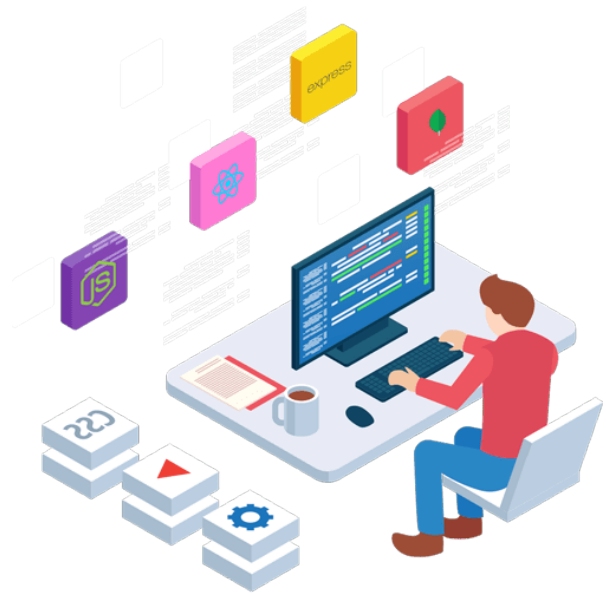
- Introduction
- Overview
- why MongoDB & Advantages
- Environment Setup
- Data Modeling
- Create Database
- Drop Database
- Create Collection
- Drop Collection
- Data Types
- Query
 - Insert Document
 - Query Document
 - Update Document
 - Delete Document
- Projection
- Limiting Records
- Sorting Records
- Indexing
- Aggregation
- Replication
- Sharding
- Create Backup
- Deployment



EXPRESS JS :-

- Introduction
- Environment Setup & Installation
- ExpressJs - Hello World Program
- ExpressJs Request
- ExpressJs Response
- ExpressJs HTTP Methods
 - ExpressJs Get
 - ExpressJs Post
- ExpressJs Routing
- ExpressJs URL Building
- ExpressJs Cookies
- ExpressJs Session
- ExpressJs File Upload
- ExpressJs MiddleWare
- ExpressJS FormData
- ExpressJS DataBase
- ExpressJs Template

Express JS



REACT JS :-

- React JS Prerequisites
- Introduction
 - Introduction
 - Features
 - Benefits
- Angular Vs React JS
- Environment SetUp
- Installation
 - Using Create-react-app
 - Using npm
- Architecture
 - work flow of React Application
 - Architecture Of the React App

 React

- Creating React App
 - Using CDN
 - Using Command Line
 - Files & Folder Structure
 - Source Code
 - Customize First React App
 - First "Hello, World" Program In React
 - Run The Application
- React JSX
 - Expression
 - Function
 - Attributes
 - Expression In Attributes
- React Fragment
- React Component
 - What is component
 - Types Of components
 - Functional Component
 - Class Components
- React Styling
 - Inline Styling
 - CSS Modules
- React Props (Properties)
 - Creating a component using properties
 - Nested components
 - Use components
 - Passing Data to Component using Props
 - Validate Props using PropTypes
 - Supplying Default values to props using defaultProps
- React - State Management
 - What Is states & significance
 - Stateless Component
 - State Management using React Hooks
 - Create A statefull Component
 - Component Life Cycle



- React Hooks
- What is Hook ?

useState

useEffect

useContext

useRef

useReducer

useCallback

useMemo

Custom Hooks

- React Rendering Lists

Using react key prop

Using map function to iterate on arrays to generate elements

- Event Handling in React

- React Routing

Install React Router

Understand routing in SPA

Working with BrowserRouter

Configuring route with Route component

Making routes dynamic using route params

Working with Nested Routing

Creating Navigation

Navigation to pages using Link & NavLink Components

Redirect routes using Redirect Component

- React - HTTP Client Programming

Fetch() API

Testing API with POSTMAN

- React - Working with forms

Controlled Component

Uncontrolled Component

- React Exercises



Node JS :-

- Introduction
 - What is NodeJS
 - Why NodeJs
- Installation
- Node in-built packages (buffer, fs, http, os, path, util, url)
- Nodejs Modules
- Import your own package
- Node Package Manager (NPM)
 - What is NPM
 - Installing Packages Locally
 - Installing Package Globally
- Web Server
 - Creating Web Server
 - Handling HTTP Requests
 - Sending Requests
- File System
 - Fs.readFile
 - Writing a File
 - Opening a file
 - Deleting a file
- Debugging NodeJs Application
 - Core NodeJS Debugger
- Events
 - Event Emitter Class
 - Returning event emitter
 - Inheriting Events
- NodeJs Query String Method



ROBOTRONIX ENGINEERING TECH PVT. LTD.

An ISO 9001 : 2015 Certified Company

Corporate Identity No.: U72200MP2011026171

Reg. Address

“अतुल्य” IT Park, Madhya Pradesh Industrial Development Corporation

Khandwa Road, Indore (M.P.)

Contact : 0731-2970998, 99931-50998, 095892-30998

Website: www.robotronix.co.in, Email: info@robotronix.co.in