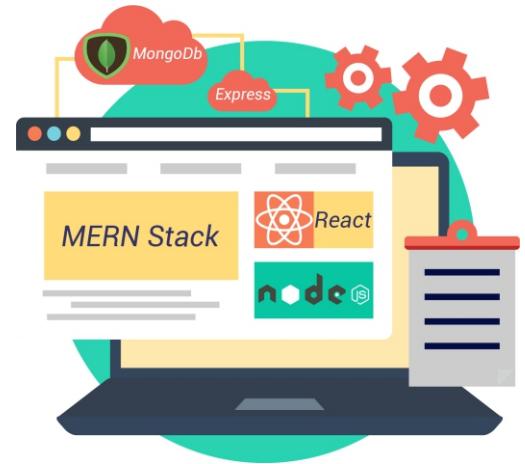


THE MERN STACK

MERN Stack Consists of Four Technologies.

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

All these technologies are built on JavaScript.



MongoDB:-

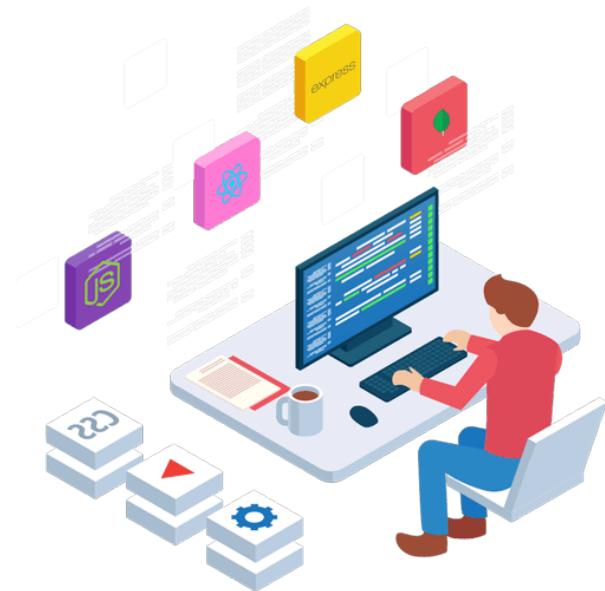
- Introduction
- Overview
- why MongoDB & Advantages
- Environment Setup
- Data Modeling
- Create Database
- Drop Database
- Create Collection
- Drop Collection
- Data Types
- Query
 - Insert Document
 - Query Document
 - Update Document
 - Delete Document
- Projection
- Limiting Records
- Sorting Records
- 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 Rendring Lists
 - Using react key prop
 - Using map function to iterate on arrays to generste elements
- Event Handling in React
- React Routing
 - Install React Router
 - Understand routing in SPA
 - Working with browserRouter
 - Configuring route with rout 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
 - Teasting 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



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