

MERN Stack Developer

Duration: 120 hours

Batches: Weekdays/Weekend

Gating Started with HTML 5

- Overview of what's new in HTML5
- Doctype
- Charset
- New structures / tags
- Inline Elements
- Html Tags
- Support for dynamic pages
- Form types
- Deprecated code
- Current browser / platform support
- Importance of the Document Object Model (DOM)
- Using the new HTML5 Tags
- Defining page structure using the new HTML 5 tags
- New HTML5 Elements
- Embedding rich content with multimedia elements
- Borders and Box Effects
- Transitions, Transforms, and Animations
- Layout: Columns and Flexible Box

Images, Audio, and Video

- Adding Images Using the Element
- Using Images as Links
- Choosing the Right Image Format

Introducing CSS 3

- Adding Images Using the Element
- Introducing CSS
- Where You Can Add CSS Rules
- CSS Properties
- Controlling Text
- Text Formatting
- Text Pseudo-Classes
- Styling Text
- Selectors
- Lengths
- Introducing the Box Model
- Creating a Style Sheet for Code

Java Scripts Concepts

- What Is Programming About?
- JavaScript Language Essentials
- How to Add a Script to Your Pages
- Create an External JavaScript
- The Document Object Model
- Starting to Program with JavaScript
- Variables
- Operators
- Functions
- Conditional Statements
- Looping
- Events Handlings
- Built-in Objects
- Writing JavaScript
- Interacting with Users
- Building Smarter Forms
- Working with Dates and Times

- Real World Applications of JavaScript

MongoDB

- Overview
- "NoSQL"
- What is MongoDB?
- JSON primer
- When / why should you use MongoDB?
- Installation and Administration
- Installing MongoDB
- Starting and stopping MongoDB servers
- The JavaScript console
- MongoDB Basics
- Servers
- Databases
- Collections
- Documents / Objects
- CRUD
- Indexes
- Clients and drivers
- Building Application with MongoDB
- Overview and integration
- Getting started
- Examples and labs
- Advanced querying
- Projections
- Conditional operators
Limit and skip

Express.js

- Introduction to Express.js
- Setting up Express.js environment
- Routing in Express.js
- Middleware in Express.js
- Error handling in Express.js
- File uploading with Express.js
- Authentication and Authorization using Express.js
- Express.js and MongoDB integration

React JS

- JS Understanding
- Entering React after learning JavaScript
- React and JavaScript Classes
- Arrow Functions in React
- Functions as Components in React
- React Class Component Syntax
- Template Literals in React
- var, let, and const in React
- Ternary Operator in React
- Import and Export Statements in React
- Libraries in React
- Async/Await in React
- Higher-Order Functions in React
- Shorthand Object Assignment
- Destructuring in React
- Spread Operator in React
- React
- Hello React
- Requirements
- SpreadSetting up a React Project
- Meet the React Component
- React JSX
- Lists in React
- Meet another React Component
- React Component Instantiation
- ReactDOM
- React Component Definition (Advanced)
- Handler Function in JSX
- React Props
- React State
- Callback Handlers in JSX
- Lifting State in React
- React Controlled Components
- Props Handling (Advanced)
- React Side-Effects
- React Fragments
- Reusable React Component

- React Component Composition
- Imperative React
- Inline Handler in JSX
- React Asynchronous Data
- React Conditional Rendering
- Data Fetching with React
- Data Re-Fetching in React
- Explicit Data Fetching with React
- Async/Await in React
- Forms in React
- Redux
- Hooks

Node JS

- NodeJS Basics
- Introduction
- Understanding the Flow of a Request
- Working with Requests and Responses
- Creating Routes and Passing Data
- Knowledge Injection: Http Methods
- Knowledge Injection: Data Formats
- More on NodeJS