

# MERN Stack (Mongo DB, Express, ReactJs, NodeJs)

Duration : 4 Days

## Course Content

MERN stack is a popular Javascript software stack that has become very popular in recent times to build powerful web applications. MERN stack involves four technologies to build an end-to-end web application, namely, MongoDB, Expressjs, ReactJs, and Nodejs. Technology stacks help developers build end-to-end applications. But it's often quite confusing to choose your stack amongst a myriad of choices. Javascript is one of the most popular programming languages which caters to both frontend and backend technologies. MERN is one of the most popular full-stack Javascript stacks that can be used to build scalable, production-ready web applications.

## Prerequisites

- Advanced experience with javascript, html and web technology
- FrontEnd Developer
- Backend Developer

## Course Outline

- Introduction to Node JS
- Node JS programming fundamentals
- Install Node and NPM
- Configuring Server
- Installing Nodemon
- Installing Express JS
- Creating server with Node Js & Express
- Creating Mongo DB User and Connecting to Database
- Creating Scheme using MongoDB
- Creating API routes
- CRUD Resfull API with Image
- Validation Error
- Testing Resfull API using Postman
- Introduction to React Js :
  - How to write your first React component
  - When and how to create multi-component files

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- How to add markup to JavaScript with JSX
- How to use curly braces with JSX to access JavaScript functionality from your components
- How to configure components with props
- How to conditionally render components
- How to render multiple components at a time
- How to avoid confusing bugs by keeping components pure
- Async Components
- Redux State Management
- Creating Client Application with React.Js
- Initialize Axios for React.Js CRUD HTTP Client
- Validation form (include Image validation)

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