

What you will learn in the course:

- Work with one of the most in-demand web development programming languages
- Create modern, fast and scalable server-side web applications with Node JS, databases like SQL or MongoDB,
- Understand the Node JS ecosystem and build server-side rendered apps, REST APIs and GraphQL APIs



Short Course Content Overview:

- Understanding the Basics of node.js
- Improved Development Workflow and Debugging
- Working with Express.js
- Working with Dynamic Content & Adding Templating Engines
- The Model View Controller (MVC)
- Optional: Enhancing the App
- Dynamic Routes & Advanced Models

Learn More About Node.JS and SQL

- SQL Introduction
- Understanding Sequelize
- Working with No SQL and Using MongoDB
- Working with Mongoose
- Sessions & Cookies
- Adding Authentication
- Sending Emails
- Advanced Authentication
- Understanding Validation
- Error Handling
- File Upload & Download

Node.js SQL, REST APIs Advance Topics

- Adding Pagination
- Understanding Async Requests
- Adding Payments
- Working with REST APIs – The Basics
- Working with REST APIs – The Practical Application
- Understanding Async Await in Node.js
- Understanding Web sockets & Socket.io
- Working with Graph QL
- Deploying our App
- Node.js as a Build Tool & Using NMP

Requirements for the course:

- General knowledge of how the web works is recommended but not a must-have
 - Basic JavaScript knowledge is strongly recommended but could be picked up whilst going through the course
 - NO Node JS knowledge is required!
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Here some Major topics you will learn in the course:

1. Node.js Basics & Basic Core Modules
2. Parsing Requests & Sending Responses
3. Rendering HTML Dynamically (on the Server)
4. Using Express.js
5. Working with Files and generating PDFs on the Server
6. File Up- and Download
7. Using the Model-View-Controller (MVC) Pattern
8. Using Node.js with SQL (MySQL) and Sequelize
9. Using Node.js with No SQL (Mongo DB) and Mongoose
10. Working with Sessions & Cookies
11. User Authentication and Authorization
12. Sending E-Mails
13. Validating User Input
14. Data Pagination
15. Handling Payments with Stripe.js
16. Building REST APIs
17. Authentication in REST APIs
18. File Upload in REST APIs
19. Building GraphQL APIs
20. Authentication in GraphQL APIs
21. File Upload in GraphQL APIs
22. Building a Real time Node.js App with Web-sockets
23. Deploying a Node.js Application

Who is the target audience for the course?

1. Who want to dive into backend (server-side) development with NodeJS
2. Anyone who's interested in building modern, scalable and high-performing web applications
3. Experienced Node JS developers who want to dive into specific features like using Graph QL with Node JS