

Node JS Course Syllabus

Chapter 1: INTRODUCTION TO NODE WORLD

- Introduction to Javascript event driven programming
- Introduction to Node event -driven programming

Chapter 2: MAKING A WEB SERVER

- Webservice basis
- Handling incoming request in Node JS
- Serving static files / pages
- Content caching
- Streaming and optimization
- Handling filesystem

Chapter 3: Rest API & HTTP OBJECT

- Rest API benefits
- Introduction to HTTP Object
- Processing POST Data
- Handling File uploads
- Using Node as HTTP Client
- Implementing download Throttling
- Node JS way of calling another server

Chapter 4: WORKING WITH DATA SERIALIZATION

- JSON to Object & Object to JSON
- XML to Object and Object to XML

Chapter 5: WORKING WITH DATABASES (Preferred MONGODB over MYSQL)

- Writing to a CSV File in Database
- CRUD using MONGODB

Chapter 6: WEB DEVELOPMENT WITH EXPRESS

- Express scaffolding
- Defining and applying environments
- Dynamic routing
- Templating IN Express
- CSS engines with Express
- How to use JWT benefit of using JWT over Sessions
- Demo of making an Express web application
- File System Security issues and measures

Chapter 7: ALL ABOUT SECURITY

- Basic Authentication methods
- Password cryptography
- Setting up HTTPS
- How to safeguard your site from cross-site forgeries

Chapter 8: ADVANCED NODE CONCEPTS

- Sending Emails
- Sending SMSs
- What is a web socket? Communication using sockets!
- Creating your own SMTP server
- Creating Command line app using Node
- Threads (or) worker in Node JS
- Making cron jobs in Node JS
- Node as proxy server

Chapter 9: WRITING CUSTOMIZED NODE MODULES

- Writing a functional module
- Extending the module's API
- Deploying a module to npm

Chapter 10: GETTING IT TO PRODUCTION

- How to set up production server environment
- How to set up auto crash recovery

