



Node JS 30 Hours (Basic + Intermediate) Programming & Development

Pre-requisite / Target Audience:

- Basic Knowledge of JavaScript and OOPS
- Knowledge in async programming will be added advantage

Java Script:

- Introduction to JavaScript
- JavaScript Statements
- JavaScript Keywords
- > JavaScript Functions
- > JavaScript Programs
- JavaScript Operators
- Function Parameters
- Function Return Values
- JavaScript Data Types
- Primitive Types

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Java Script & Objects:

- Object Overview
- Object Oriented Programming
- Object creation
- Adding Properties to Objects
- > Adding Methods to Objects
- JavaScript Conditional Statements
- JavaScript Loops & Iteration
- Enumerating properties
- Call-backs
- > JSON

Node JS Basics:

- > Introduction
- What is Node JS?
- Advantages of Node JS
- Traditional Web Server Model
- Node.js Process Model



Setting up the development environment for Node.js:

- Install Node.js on Windows
- > Installing in mac os
- Working in REPL
- Node JS Console

Node Js modules:

- Functions
- > Buffer
- Module
- Module Types
- Core Modules
- Local Modules
- Module Exports



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Node Package Manager:

- What is NPM
- Installing Packages Locally
- Adding dependency in package.json
- Installing packages globally
- Updating packages

Webserver Creation:

- Creating web server
- Handling http requests
- Sending requests

File Systems:

- > Fs.readFile σ
- Writing a File
- Writing a file asynchronously
- > Opening a file
- Deleting a file
- Other IO Operations

Debugging Node JS Application:

- Core Node JS debugger
- Debugging with Visual Studio

Events:

- Event Emitter class
- > Returning event emitter
- Inhering events

Express JS:

- Configuring routes
- Working with express

Database connectivity using Node JS:

- Connection string
- Configuring
- Working with select command
- Updating records
- > Deleting records

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Project:

Real-time Project involving most of the above concepts with following will be provided

- Product Abstract Document
- Requirement Specification Document
- Step-by-Step procedure for building the project from ground up
- Complete Source Code
- Database Script with Sample data
- Instructions to Setup the Project on a Development box
- Instruction to Deploy the project on Production Box / Microsoft Azure

