



Node JS 60 Hours (Basic + Intermediate+Advanced) Programming & Development

Pre-requisite / Target Audience:

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

Introduction:

- > HTML Basics
- HTML Elements
- > HTML Attributes
- > HTML Styles
- > HTML Forms
- HTML Form Elements
- HTML Input Element Types
- > HTML Input Attributes
- HTML File Paths Script tag and its uses
- > HTML & XHTML CSS
- Introduction CSS Syntax CSS Selectors CSS Styling

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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

Java Script & Objects:

- Object Overview
- Object Oriented Programming
- Object creation
- Adding Properties to Objects
- Adding Methods to Objects
- > JavaScript Conditional Statements CHNOLOGIES
- 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

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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

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

Debuggin 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

Serving Static Resources:

- Serving static files
- Working with middle ware

Database connectivity using Node JS:

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

Template Engine:

- > Why Template Engine
- What is Jade
- What is vash
- > Example

POSITIVE QUADRANT TECHNOLOGIES

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