Course: Node JS

Duration: 60 Hrs (Changeable) | Fees: Individual / Batch

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Syllabus on the Next Page ..

Module 1: Introduction to Node.js

∗ What is Node.js

∗ Features of Node.js

∗ Concept

∗ Where to fit and not fit

∗ Event-Driven programming style

∗ What is Asynchronous

Module 2: Installation / Setup

∗ Local environment setup

∗ Node.js runtime

∗ Download source code

∗ Installation on OS

∗ Verify

Module 3: Node Package Manager

Install module by NPM

∗ Global vs Local setup

∗ Update Module

∗ CRUD Module

Module 4: Express Framework

∗ What is Express

∗ Setup Express

∗ Request And Response

∗ Handling Routes

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* Route Middleware

* Objects

* Cookies Management

* File upload

* HTTP methods

Module 5: Buffers and Streams

* What is buffers and Streams

* Benefit of Streams over buffers

* Create / Write / Read operation on Buffers

* Process on Buffers

* Read / Write data by Streams

* Pipeline

* Chaining Stream

Module 7: REST API

* RESTful Architecture

* HTTP URI and Methods

* RESTful web services

* Expose solution as API

* Best practice for REST API solution

Module 8: Callback

* What is Callback

* Benefit of Callback

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* Asynchronous communications

* Block and Non-Blocking

* Standard Callback pattern

* Async Flow control Library

* Executing in parallel

Module 9: Events

* What is Events

* Events types

* Event Emitter API

* Multiple event listeners

* Event emitter pattern

* Class methods

* Event Loop

* Blocking Event Loop

* Escaping Event Loop

Module 10: Connecting with Database

* Introduction of MySQL

* Connect with MySQL

* Introduction of MongoDB

* Features of MongoDB

* Connect with MongoDB

* Defining a schema

✳ Defining a Model

Module 11: External Processes and Services

✳ What is processes

✳ Spawning Child process

✳ Create and kill processes

✳ Building with HTTP Severs

✳ HTTP requests

✳ Secure HTTP Server

Module 12: External Processes and Services

✳ Using Test Runner

✳ Using Assertion Testing Module

✳ Built-in Debugger

✳ Console log

✳ Node Inspector

(Click on Course for more details)

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- Thank You -

N.B:This syllabus is not final and can be customized as per requirements / updates.

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