### **NodeJs 35Hours**

**Day 1**

* Understand Full Stack
* Introduction NodeJs

**Day 2 - Day 5**

* NodeJS Setup
* NPM
* REPL
* JSON and Package.Json
* Node Inbuilt Package
* File System With Node
* Setup Server with Node
* Create First API with Http

**Day 5- Day9 (Build FullStack with Node)**

* Understand Express
* Routing with Express
* Basic Introduction to MongoDB
* Understand Frontend With EJS
* Combine to Build FullStack
* Taking Database Live
* Deploy App on Heroku

**Day 6 >** Call Third Party Api With Node(Weather App)

**Day 7 >** Caching With Node (Redis)

**Day 8 >** Convert Node For Es6 (Babel)

**Day 9-10 >** Deep Dive into MongoDb (Local/Cloud)

**Day 11 >** Image Upload With Node

**Day 12-Day18**

* Rest API with Node
* Complete CRUD
* Build Backend Api For Ecommerce
* Swagger for API
* Building Dashboard with Node
* Testing with Mocha/Chai
* Taking Api Live

**Day 19** > Email With Node(SendGrid)

**Day 20- Day 21** > Login with JWT

**Day 22**> Oauth With Github

**Day 23**> Oauth With Google

**Day 24 - Day 26**> Payment Gateway Setup (Paytm)

**Day 27**> GraphQl

**Day 28** > Deep Learning of GitHub

**Day 29- Day30** (Deployment)

* Pm2
* Docker
* Nginx
* Heroku

**Day 31**> Understand FireBase

**Day 32**> ChatApp with Node

**Day 33- Day35**

* Revision
* Interview Preparation
* Doubt Sessions

## **NodeJS Training Content**

### **Introduction to Node.js**

* RAM vs. I/O latency
* Blocking vs. Non-Blocking
* Event-driven Programming
* Event Loop
* Blocking The Event Loop
* Node.js Philosophy

### **Node.js Platform Setup**

* Download and Install
* Node REPL
* First Hello World

### **Modules and npm**

* Anatomy of a module
* Private code
* Accessing and using modules
* npm commands
* package.json

### **The Callback Pattern**

* What are callbacks
* Callback-last
* Error-first

### **Events**

* When to use Event Emitters
* Binding Functions to Events
* Event Requests and Listening

### **Error Handling**

* Callbacks: Error-first
* Errors in Event Emitters
* Uncaught Exceptions
* Using Domains

### **Buffers**

* Why Buffers exist
* Creating Buffers
* Reading and Writing Buffers
* Manipulating Buffers

### **Streams**

* What are streams
* Read and Write Stream API
* Flow Control
* Piping
* Duplex Stream
* Transform Stream

### **Express.js**

* Intro and Installing Express.js
* Building a Hello Express application
* Creating routes
* Rendering Layouts
* Using templates
* Adding partials
* Using locals and conditional templates
* Modularizing routes

### **Socket.io**

* Listening for
* Broadcasting
* Answering questions

### **Connecting to Databases**

* No SQL and Document Stores
* Relational DBs
* Configuration and platform setup
* CRUD Operation