

NodeJS Syllabus

DAY I

- Modularizing JavaScript code
 - Using require() to modularize application code
- Export/Import Modules
- Maintaining Production and Developer Dependency
- npm install command
- Generating package.json
- Understanding package.lock.json
- Understanding node_modules
- Working with yarn
- Yarn vs npm
- Callbacks vs Events
- Streams as EventEmitters
- Working with Events
- EventEmitter Class
- Creating own Event Emitter
- Emitting events
- Associating event handlers
- Events subscription
- Events unsubscription
- Process Events
- Streams –
- Reading from Stream
- Writing to Stream
- Piping Streams
- Streams as EventEmitters
- Chaining Streams
- Creating upload file server using streams
- Serving contents from directory

DAY II

- File System Access
- Reading and writing to files
- Async & Sync functions
- External Modules
- Understanding RESTful Framework
- Node.js and the web
- Building a web server
 - Handling web requests
 - Returning HTML
- Building web applications using Express.js basic
- Building web applications using Azure Function
- Using Middleware
- Understanding Middleware
 - Create Custom Middleware
 - Using Third Party Middleware's

- Serving HTML Pages.
- Serving Static Contents
- Bundling Static Contents
- Handling Errors

Building RESTful API's using Express

- Handling HTTP GET Requests
- Handling HTTP POST Requests
- Calling Endpoints Using Postman
- Input Validation
- Handling HTTP PUT Requests
- Handling HTTP Delete Requests

DAY III

Using Socket.IO

Creating Socket Server

Creating Socket Client

Continuous/Duplex communication

Debugging (Can be covered earlier as well)

Console Object

Debugger Statement

Node's Built-in debugger

Unit Testing

TDD/BDD

Using Jasmine and Karma