

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