

Node.js Online Training

DURATION: 6 weeks

MODE OF TRAINING: Classroom/Online

LEVEL: Advanced

Introduction

AnnexIT Node JS online training will help you develop the skills required to build JavaScript applications using Node.js. It will allow you to gain a knowledge of the fundamental concepts of Node.js and offers a hands-on experience of creating HTTP servers, buffers, flows, events, multiprocessing, etc. We have real-time experts who will teach with a full explanation of each topic of Node JS training in Hyderabad. Quality training is given by industry best experts. The trainers here have years of experience in Node JS.

This training gives you the canonical guidance to learn in-depth knowledge of Express.js, Node Packet Manager (npm), asynchronous javascript, REST, Express.js with MongoDB, and more.

Node.js Course Curriculum

Node.js Introduction

- Introduction Node.js
- Why Node.js ?
- Feature of Node.js
- Node.js Installation & configuration
- Where to use Node ?
- Server-side JavaScript
- Asynchronous events vs. threads
- Performance
- V8 Javascript Engine
- Server utilisation

Node Js Fundamentals,REPL Terminal

- Installing Node JS
- Node Event Loop
- Writing Asynchronous Code

- Blocking Vs Non Blocking Code
- Node Child Process

REPL Terminal

- REPL Introduction
- REPL Terminal Debugging
- Operation In REPL
- Stopping REPL

NPM,Event Loop

- Introduction to NPM
- Installing module with npm
- Global Vs Local installation
- Understanding node_module
- Understanding package.json
- Package.json
- Updating a module
- Deleting a Module
- Event Loop

Understanding Modules

- Built-In Modules
- Local or Custom Modules
- Third Party Modules
- Using require() to import modules
- Exporting Modules
- Node JS Global Objects
- Exceptions Handling

File System, NodeJs HTTP, Streams

- Understanding FS Module
- The path Module
- Creating,Reading and Writing Files
- Open,Close,Rename and Delete
- Node.js HTTP
- Building a Web Server
- HTTP Request Methods
- Streams

Express.js

- Introduction to Express JS
- Installing Express JS with npm
- Fundamentals Of ExpressJS
- Defining Routes
- Creating an Express Application
- Sending Text as Http Response
- Sending JSON as Response
- Sending File as Response
- Setting up HTML Homepage
- Express application Object
- Views
- Middleware functions

MVC Architecture,Express Router

- What does MVC mean.
- Understanding MVC Architecture.
- Separation of Concerns
- Flow Control
- Models
- Controllers
- Views
- Config
- Utils
- Services

Express Router

- Understanding Express Router
- Designing Routes as Pro
- Creating Routes
- Multiple Routes Files

Building an Express app

- Creating an Express app/project
- Organising/structuring the app
- Generating HTML views with Jade
- Navigating datasets
- Filtering data
- Request variables and routes

- Posting data
- Modifying data through PUT requests
- Handling GET requests returning JSON
- Modifying HTTP response headers

Node with REST API, Building REAL Time Web Application

- Introduction to REST API
- REST Architecture
- HTTP methods
- HTTP response
- Creating REST
- Testing REST
- POSTMAN

Building REAL Time Web Application

- Creating an Express app/project
- Organising/structuring the app
- Using MVC to Architecture
- Developing Backend REST Endpoints
- Integrating Mongoose with Node
- Using Mongoose for Schema Designing and DB Operations
- Using Mongoose as ODM tool
- Data mapping and CRUD with Node
- Data Separation
- GET,POST,PUT,PATCH and DELETE Request Handling
- Modifying HTTP response headers
- Enabling Cross Origin request

Token Based Authentication, Encrypt Decrypt Password

- Understanding JWT
- Integrating JWT
- Login and Registration with JWT
- Access control with JWT Token for making robust REST

Encrypt Decrypt Passwords

- understanding bcrypt
- Installing bcrypt
- Integrating bcrypt in nodejs
- Password Encryption Decryption with bcrypt

