

Beyond Curriculum Training On

"Developers Course to Node JS"



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Organized by

Narula Institute of Technology

81, Nilgunj Road, Agarpara, Kolkata – 700 109

Training Overview

This course offers an additional value in Node JS which is an open-source, cross-platform scripting language.

Training Objective

To provide the knowledge of advance learning with Node JS which is an open-source, cross-platform scripting language to develop with high performance.

Course Outcomes

After completion of this course students will be able to

- Code with a Single programming language.
- Interact with large and Active community.
- Get the liberty to develop app.

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Course Content

Module 1: Overview of Next Gen Java Script

Variable (local & global)

Concept of Variable Hoisting

Object

Array & Array methods

Function (Named, Anonymous, Arrow)

Different types of function parameters and Return Value Types

Loops (for, for-of, for-in, while, do-while)

Destructuring

Spread operator

Es6 Promise

Concept of Async and await

Class & Constructor

Module 2: Introduction to Node JS

Introduction

What is Node JS?

Advantages and Disadvantages of Node JS

Installing Node JS on Windows

Node JS console

Creating a Node Server

Handling http requests

Understanding Request and Response and How to Handle

Parsing Request Bodies

Blocking and Non-blocking code

Using Node Module system

Module 3: Node Package Manager

What is NPM?

Installing Packages Locally/globally

Adding dependency in package.json

Updating packages

Installing 3rd party packages

Introduce Nodemon for Autostart

Module 4: Express JS

What is Express JS?

Install Express JS

Adding Middleware

Handling Different Routes

Parsing Incoming Request

Use Express Router

Serving HTML Pages

Module 5: Template Engines

Why we use Template Engine?
Introduce EJS Template
Installing and Implementing EJS
Difference between HTML and EJS

Module 6: Introduce Model View Controller

What is MVC architecture? Understanding the flow diagram of MVC Adding controller Storing Data via Model

Module 7: Database connectivity using Mongo DB

Create records
Updating records
Deleting records
Sorting data
Adding search filter

Module 8: Database connectivity using Mongoose

What is Mongoose?
Connecting to Mongo DB server with Mongoose
Creating Schema in Model
Saving Data through Mongoose
Fetching records
Updating records
Deleting records
Using Relation in Mongoose

Module 9: Introduce Session and Cookies

What is session and Cookies?
Difference between session Cookies
How to store data in Session and Cookies

Module 10: Adding Authentication

What is Authentication?
How to implement Authentication?
Encrypting Password
CSRF Token
Adding CSRF Protection
Adding Flash Message

Module 11: Sending Email using Send Grid

Module 12: Understanding Validation

Sever side validation
Adding validation to the input field
Displaying server side validation message to user side

Module 13: Image Uploading

Module 14: API

What is REST API?
Understanding the flow diagram
Importance of REST API
Implementation of API
Authentication using JSONWEBTOKEN

Module 15: Project