



Training | Consulting | Developement | Outsourcing



Angular JS + Node JS

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# Angular JS + Node JS Combo Course

## Course Overview:

AngularJS is a framework of javascript which can be added to an HTML page with a tag of the script. AngularJS extends the attributes of HTML with directives and binds data to HTML with expressions. AngularJS uses the library of javascript. AngularJS online training provides you with all the details of libraries used in AngularJS.

This course will give you an insight of the complete angular structure and patterns that it will deal with and also will give a real-time project training which has all the latest patterns that the design patterns and you can able to build your own front end application in patterns like MVC or MVVM.

Node.js is an open source, cross-platform framework running on Mac OSX, Windows, and Linux. Node.js course has been designed to help developers understand and build web applications with the help of JavaScript. Node.js is an eventdriven, server-side JavaScript environment that runs JavaScript using the V8 engine developed by Google. The course focuses on various important concepts of Node.js and provides hands-on experience in building HTTP server with Node.js, working with file system, buffers, stream, events, and multi-processing in Node.js. The training covers Express.js, which is a powerful and flexible web application framework Our training curriculum is designed to boost you understanding of best practices for the design, development & management of mission-critical Node.js applications.

## Course Outline:

## Angular JS

### 1: Introduction to HTML

- HTML Basics, Elements, Attributes, Styles
- Forms, Form Elements, Input Element Types
- Input Attributes, File Paths, Script tag
- HTML &XHTML

### 2: Introduction to CSS

- CSS Introduction, Syntax, Selectors, Styling
- Pseudo class, Pseudo Elements
- CSS Tables, CSS Box Models
- CSS Opacity, CSS Navigation Bar, Dropdowns

### **3: Introduction to JavaScript**

- JavaScript Statements, Keywords, Functions
- JavaScript Programs, Operators, Functions
- Function Parameters, Function Return Types
- Data Types, Primitive Types

### **4: Working with Objects**

- Object Oriented Programming, Object Creation
- Adding Methods of Objects
- JavaScript Loops & Iteration
- Adding Properties of Objects
- JavaScript Conditional Statements
- Enumerating Properties, Callbacks, JSON

### **5: Angular JS Basics**

- What is Angular JS?
- Why Angular JS?
- Why MVC matters
- MVC-The Angular JS way
- Features of Angular JS ,Model-View-Controller
- My First Angular JS app

### **6: Angular Expressions**

- All about Angular Expressions
- How to use expressions, Angular vs JavaScript

### **7: Filters**

- Built-In Filters, Using Angular JS Filters
- Creating Custom Filters

## 8: Directives

- Introduction to Directives, Directive Lifecycle
- Binding controls to data, Matching directives
- Using Angular JS built-in directives
- Creating a custom directive

## 9: Controllers

- Role of a Controller, Controllers & Modules
- Attaching Properties and functions to scope
- Nested Controllers, Using Filters in Controllers
- Controllers in External Files

## 10: Angular JS Modules

- Introduction to Angular JS Modules
- Bootstrapping Angular JS

## 11: Angular JS Forms

- Working with Angular Forms, Model Binding
- Forms Events, Updating Models with a Twist
- Form Controller, Validating Angular Forms
- \$error object

## 12: Scope

- What is scope, Scope Lifecycle
- Scope Inheritance, Scope & Controllers
- Root scope, Scope Broadcasting
- Two-way data binding, Scope Inheritance
- Scope & Directives, \$apply and \$watch
- Scope Events

## 13: Dependency Injection & Services

- What is Dependency Injection
- Creating Services, Factory, Service & Provider
- Using Dependency Injection, What are services

- Using Angular JS built in services

#### **14: Single Page Application (SPA)**

- What is SPA, Pros and Cons of SPA
- Passing Parameters, Changing location
- Installing the ng Route module, Configure routes
- Resolving promises, Creating a Single Page Apps

#### **15: Angular JS Animation**

- ng Animate Module, CSS Transforms
- CSS Transitions, Applying Animations

#### **16: Introduction to Node JS**

- Introduction to Node JS
- Advantages of Node JS
- What is Node JS, Node.js Process Model
- Traditional Web Server Model

#### **17: Setup Development Environment**

- Install Node.js on Windows
- Working in REPL, Node JS Console

#### **18: Node JS Modules**

- Functions, Buffer, Module
- Modules Types
- Core Modules, Local Modules
- Modules Exports

#### **19: Node Package Manager**

- What is NPM, Installing Packages Locally
- Installing package globally
- Adding dependency in package json
- Updating packages

#### **20: Creating Web Server**

- Creating Web Server
- Sending Requests
- Handling http requests

## **21: File System**

- read File, Writing a File
- Opening a file, Deleting a file
- Writing a file asynchronously
- Other IO Operations

## **22: Debugging Node JS Application**

- Core Node JS Debugger

## **23: Events**

- Event Emitter class
- Inheriting Events
- Returning event emitter

## **24: Express JS**

- Configuring Routes
- Working with Express

## **25: Serving Static Resources**

- Serving Static Files
- Working with Middle Ware

## **26: Database Connectivity**

- Connecting String, Configuring
- Updating Records
- Working with Select Command
- Deleting Records

## **27: Project Development**

- Project Development using Node JS

# Node JS

## Course Outline:

### Introduction and Foundation

- Introduction
- The Node.js framework
- Installing Node.js
- Using Node.js to execute scripts

### Node Projects

- The Node Package Manager
- Creating a project
- The package.json configuration file
- Global vs. Local package installation

### Node JS Modules

- Functions
- Buffer
- Module
- Modules Types
- Core Modules
- Local Modules
- Modules Exports

### Asynchronous programming

- Call-back functions
- Working with Promises
- Advance promises
- Using Request module to make api calls

### Node Package Manager

- What is NPM
- Installing Packages Locally
- Installing package globally
- Adding dependency in package Json
- Updating packages

## **Creating Web Server**

- Creating Web Server
- Sending Requests
- Handling HTTP requests

## **File System**

- Read File
- Writing a File
- Opening a File
- Deleting a File
- Writing a file asynchronously
- Other I/O Operations

## **Debugging Node JS Application**

- Core Node JS Debugger

## **Events**

- Event Emitter class
- Inheriting Events
- Returning event emitter

## **HTTP Server with APIs**

- The HTTP protocol
- Building an HTTP server
- Rendering a response
- Processing query strings
- Processing posted data

## **Express JS**

- Configuring Routes
- Working with Express

## **MongoDB and Sqlite**

- How Node.js connects to databases



- RDBMS databases and NoSQL databases
- Connecting to RDBMS and MongoDB databases
- Performing CRUD operations

### **Serving Static Resources**

- Serving Static Files
- Working with Middle Ware

### **Database Connectivity**

- Connecting String
- Configuring
- Updating Records
- Working with Select Command
- Deleting Records

#### **Prerequisites:**

- The pre-requisites for AngularJS online course are that the candidate must have the basic knowledge of web programming and web development. He/she must have the basic knowledge of HTML, CSS, and JQuery.

#### **Who Should Attend:**

- Anyone who wishes to learn about AngularJS and wants to make a career in the web development field can opt for AngularJS online training at GangBoard.
- He/she must have the knowledge of web programming and web development, basics of HTML and CSS including JQuery.

#### **Number of Hours: 70hrs**

#### **Key Features:**

- One to One Training
- Online Training
- Fastrack & Normal Track
- Resume Modification
- Mock Interviews
- Video Tutorials
- Materials
- Real Time Projects

- Virtual Live Experience
- Preparing for Certification

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