Training: Web Development with Angular

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
- 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