



Angular JS

Session 1: Introduction to HTML

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

Session 2: Introduction to CSS

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

Session 3: Introduction to JavaScript

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

Session 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

Session 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

Session 6: Angular Expressions

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

Session 7: Filters

- Built-In Filters, Using Angular JS Filters



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- Creating Custom Filters

Session 8: Directives

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

Session 9: Controllers

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

Session 10: Angular JS Modules

- Introduction to Angular JS Modules
- Bootstrapping Angular JS

Session 11: Angular JS Forms

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

Session 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

Session 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

Session 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



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Session 15: Angular JS Animation

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

Session 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

Session 17: Setup Development Environment

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

Session 18: Node JS Modules

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

Session 19: Node Package Manager

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

Session 20: Creating Web Server

- Creating Web Server
- Sending Requests
- Handling http requests

Session 21: File System

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

Session 22: Debugging Node JS Application

- Core Node JS Debugger

Session 23: Events



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- Event Emitter class
- Inheriting Events
- Returning event emitter

Session 24: Express JS

- Configuring Routes
- Working with Express

Session 25: Serving Static Resources

- Serving Static Files
- Working with Middle Ware

Session 26: Database Connectivity

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

Session 27: Project Development

- Project Development using Node JS

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