## Training Requirement on MS Sql, Spring boot, Spring, Angular

**Duration: 13 Days** 

Day Wise Schedule

Day	Module	Day Wise Coverage
01	Spring Basics	Introduction to Spring Framework
		Various modules in Spring Framework
		Benefits of using Spring framework in Java Projects.
		Overview of IOC
		Instantiating Spring IoC container
		Implementing Spring DI (Dependency Injection) using XML and
		annotation based
		configuration, setter and constructor-based injections
		Implementing Spring DI (Dependency Injection) using annotations based
		configuration,
		Setter and constructor-based injections
02	Spring Bean	Injecting collections in to beans e.g List,
	Factory	Set, Map, Properties
	-	Dependency check within beans
		Autowiring using XML
		Autowiring using Annotation
		Implementing Bean inheritance
		Automatic scanning of components
		Identifying different Bean scopes, singleton and prototype
		n initialization and destruction (Init-method and destroy
		method)/@Postconstruct and @PreDes
		Recognizing Bean Inheritance
		Externalizing bean configuration
03	Spring JDBC	Configuring Data Source
		Implementing Jdbc Template and updating the database
		Using a JDBC Template to Query a Database
		Implementing Row Mapper and querying the database
		Using Jdbc DAO Support and updating the database
		Handling exceptions and customizing exception handling
		Benefits of integrating Spring with Hibernate.
		Using Hibernate Template to do database operations.
		Using Hibernate contextual session.
		Using Hibernate Dao support class.
		Recognizing the importance of transaction management
		Programmatic and declarative transaction management
		Spring Transaction Manager
		transaction Attributes, Propagation behaviour, Isolation Level, read-only
		status, Timeout, Rollback
		Introduction to Data Definition Language
04	Spring MVC	Spring MVC architecture
	Basics	Request Life Cycle in Spring MVC
		Introduction to Dispatcher Servlet
		Web Application Context
		Context Hierarchy in Spring Web MVC

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		Spring 3 MVC Configuration
		Configuring Dispatcher Servlet in web.xml.
		Defining a controller with @Controller.
		Using @RequestMapping, @RequestParam, @ModelAttribute
		Using @RequestBody @Path variable, @CookieValue
05	Spring MVC	Using @RequestHeader, @ResponseBody, @ModelAttribute
	Handler	Handler Mapping
		Interceptors, default Handler, Order, always Use Full Path, URL Decode.
		Request Mapping Attributes like value, method, param, headers
		Handler Interceptors
		Life Cycle of the Interceptor: Methods
		Implementing Handler Interceptor
		Registering Interceptor and Ordering
		View resolvers
		Spring MVC Form
		Implementing multiple view resolvers
		Resource bundle-based view resolvers
		Spring's form tag to develop user interface for a Web application.
		Form Tag, Checkbox, Radio Button, Password Tag
		Select Tag, Option Tag, Text Area, Error Tags
		Validating data
		Use of JSR 303 annotations to validate beans
06	Node JS	Introduction
		Setup, REPL Terminal
		NPM
		Call backs Concept
		Event Loop
		Event Emitter
		Buffers
		Streams
		File System
		Global Objects
		Utility Modules
		Web Modules
		REST Ful API.
07	Angular	Benefits of Building using Angular.
	Overview	Understanding Angular Versions
		"Single-page Web Application Architectures vs. Traditional Server-side
		Web Application Architectures"
		Angular Style Guide
		Angular Architecture
		What's New in Angular 6
		Upgrading to Angular 6 from earlier versions of Angular
	TypeScript	Introduction
	and	The different components of Typescript
	ECMAScript6	Language features
	Fundamentals	Setting up typescript environment
	1 diludiliciitais	Variables, basic types, and operators
		Programming constructs
		Functions, Arrow Functions
		Decorators

		Hands On
08	Angular	Angular-cli (Setting up environment)
	Basics	Writing a hello world app
		Running the hello world app.
		Creating a component
		Importing Dependencies
		Components
		Templates: Inline, Multi-line, and External with Component-relative Paths
		Angular Modules (Ng Module)
		Angular Modules vs. ES Modules
		Adding CSS to the component
		Adding Data to the component
		Example App – Demo on the basic concepts
		Hands on
09	<b>Data Binding</b>	Interpolation
		Property binding
		Event binding
		Two-way data binding
		Hands On
10	Built-in	Structural: Ng For, nglf, Ng Switch
	Directives	Attribute: Ng Class, ng Style
		Angular Pipes
		Hands On
	Service &	Understanding Dependency Injection
	Dependency	Agular's Dependency Injection System
	Injection	Creating a data provider service
		Registering services with Angular Modules
		Injecting a service into a components
		Hands On
11 -	MS SQL	SELECT statement - Conditions, Sorting
13	Server	INSERT, UPDATE, DELETE
Day		SELECT JOINS (3 or more tables)
		Basic understanding of Execution Plan