



## JAVA FULLSTACK COURSE SYLLABUS

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# **JAVA FULLSTACK COURSE SYLLABUS**

## **HTML5**

- Introduction
- What is difference between HTML and HTML5?
- HTML Overview
- DOCTYPE
- HTMLAttributes
- Text Formatting
- Script tag
- Link tag
- Image tag
- Div tag
- Span tag
- Paragraph
- HTMLTables
- HTML Lists
- Iframes
- Semantic Element
- HTML Media
- HTML Audio and HTML Video

## **CSS3**

- What is CSS?
- CSS Inclusion
- CSS Fonts
- CSS Text
- CSS links
- CSS Tables
- Margin property
- Padding property
- CSS Lists Styles
- CSS Cursors
- CSS Overflow
- CSS Position
- Pseudo Classes
- Pseudo Elements
- Animation



- Media Query
- Box Sizing Flex and Grid

## JAVASCRIPT

- Introduction
- Variable Declaration
- Arithmetic Operations
- Array
- Array Methods
- String
- String Method
- JavaScript Function
- Function Closure
- Regular Expression
- Error Handling DOM
- Event Listener
- Date Methods
- Object
- E6 Features Async Concept



## CORE JAVA

### Module 1

- What is Java?
- Features of java
- Components of Java
- Usages of java
- Class, Object and Methods
- Standard Notation
- Identifiers
- Installation of Java and Eclipse IDE

### Module 2

- Coding Standards and Naming Standards
- Introduction to Packages
- Why packages?
- Same Package and Different Package
- Import Statement

- Advantage of package
- Datatypes
- Primitive
- non-primitive
- Type conversion
- Implicit
- explicit

### **Module 3**

- What is scanner
- Scanner methods
- Types of Variables
- Local
- Instance/Global
- Static
- Final
- Methods
- Without argument
- With argument
- Without return type
- With return type
- What is Constructor
- How to create a constructor?
- Usage of constructor
- Types of constructors
- Constructor changing
- This keyword

### **Module 4**

- Operators
- Arithmetic operator
- Conditional operator
- Logical operator
- Ternary
- Compound Operator
- Control Statements
- If

- If else / nested if
- Else if
- Switch case
- Loop
- For
- Nested for
- While
- Do while
- Enhanced for
- Jump Statements
- Break
- Continue

## **Module 5**

- Object Oriented Programming
- Inheritance
- What is Inheritance
- Types of Inheritance
- Super keyword
- Upcasting and Downcasting
- Polymorphism
- Compile Time Polymorphism
- Run Time Polymorphism
- Method Shadowing
- Variable Shadowing
- Abstraction
- Types of Abstraction
- Interface
- Static keyword and default method usage in interface
- Encapsulation
- Getters and Setters

## **Module 6**

- Access modifier
- Private
- Default
- Protected
- Public

- Non access modifier
- Abstract
- Static
- Final
- String
- String Properties
- String Methods
- String Buffer class
- String Builder class
- What is Array
- Types of Arrays
- Single dimensional Array
- Array of Objects
- Arrays Class and it's Methods
- Nested Class and Nested Interface
- Anonymous Inner Class
- Functional Interface
- Lambda Expression

## **Module 7**

- Wrapper Class
- Autoboxing
- Unboxing
- Collection API
- List
- ArrayList, LinkedList, Vector, Stack
- Set
- HashSet, LinkedHashSet, TreeSet
- Map
- HashMap, LinkedHashMap, TreeMap
- Crud Operation
- Stream API
- How to create a stream
- Stream Methods
- Map, Filter, Reduce...etc
- Generics
- What is Generics?
- Advantages of Generics

- Generic Type

## **Module 8**

- Exception
- What is Exception?
- Compile time and Run time exception
- Exception Handling
- Try, Catch, Throw and Throws keyword
- User defined Exception
- File Handling
- File class and it's methods
- Writing data into the file
- Reading data from the file

## **Advance Java**

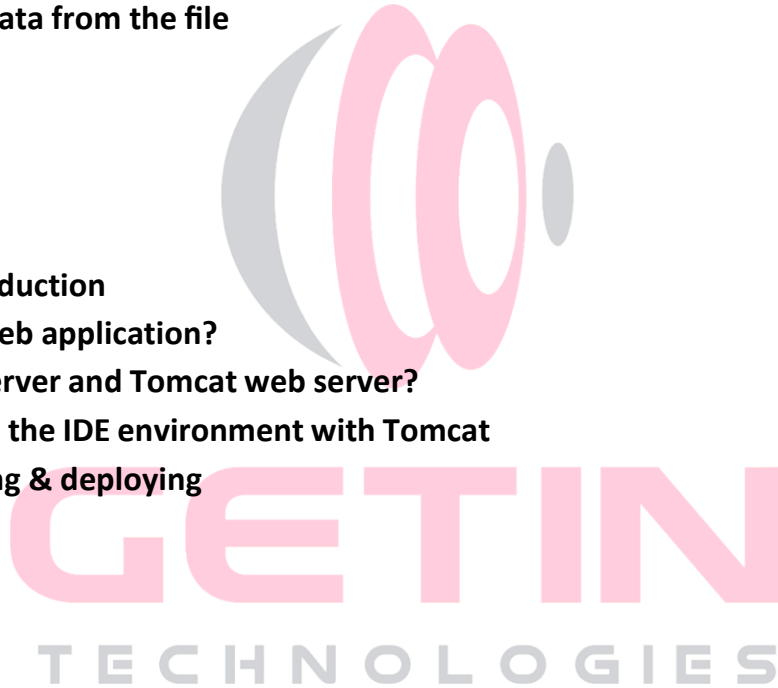
### **Module 1**

- J2EE Introduction
- What is web application?
- What is server and Tomcat web server?
- Setting up the IDE environment with Tomcat
- Assembling & deploying

### **Module 2**

- Servlet
- Servlet api, classes and it's interfaces
- Request and Response Object
- Servlet Config and Servlet Context
- Init parameters and Context parameters
- RequestDispatcher & SendRedirect
- DoGet, DoPost and Service methods
- Servlet lifecycle and load-on-startup
- Xml file and Annotation

### **Module 3**



- **HttpStatusCodes & SendError method**
- **RequestAttribute, SessionAttribute, ContextAttribute**
- **Session Management**
- **Filters API**
- **Filter Chain**

## **Module 4**

- **JDBC**
- **JDBC Drivers**
- **Creating a connection**
- **Statement**
- **Prepared Statement**
- **Callable Statement**
- **ExecuteQuery, ExecuteUpdate and Execute**
- **ResultSet**

## **Module 5**

- **JSP**
- **Life cycle**
- **JSP Tags**
- **Scriptlet, Expression, Declaration tags**
- **Expression Language**
- **JSP Directives**
- **JSP @page, @include and @taglib**
- **JSTL tags**
- **JSP implicit objects**
- **JSP use bean**

## **JAVA FRAMEWORKS**

### **Java Spring**

- **Introduction to Spring**
- **Spring Core**
- **Spring IOC introduction and its configuration**
- **Introduction dependency injection**
- **Introduction to Maven and its configuration**
- **Application context**
- **Xml configuration**



- Annotation based configuration
- Autowired annotation

### Spring MVC

- Introduction to Spring MVC and its configuration
- Front controller or DispatcherServlet
- Controller and RequestMapping

### Spring JDBC

### Hibernate

- Introduction to Hibernate and its configuration.
- How to get data using Hibernate?
- Hibernate Mapping relations.
- Hibernate Caching
- Hibernate Query Languages.
- Hibernate uses in Project
- JPA ORM Implementation.

### **Rest API**

### JAVA SPRING BOOT FRAMEWORK

- Introduction to Spring Boot
- Spring Tool Suite (STS) IDE Configuration
- Creating web application using spring boot
- Application properties file
- Model and View
- Model object
- Spring Boot Data JPA
- Spring Boot MVC
- Spring Boot Data Rest

### SQL Training Syllabus

### Introduction

- The Relational Model

## Understanding Basic SQL Syntax

- The Relational Model
- Basic SQL Commands – SELECT
- Basic SQL Commands – INSERT
- Basic SQL Commands – UPDATE
- Basic SQL Commands – DELETE

## Querying Data with the SELECT Statement

- The SELECT List
- SELECT List Wildcard (\*)
- The FROM Clause
- How to Constrain the Result Set
- DISTINCT and NOT DISTINCT

## Filtering Results with the Where Clause

- WHERE Clause
- Boolean Operators
- The AND Keyword
- The OR Keyword
- Other Boolean Operators BETWEEN, LIKE, IN, IS, IS NOT

## Shaping Results with ORDER BY and GROUP BY

- ORDER BY
- Set Functions
- Set Function And Qualifiers
- GROUP BY
- HAVING clause

## Matching Different Data Tables with JOINS

- CROSS JOIN
- INNER JOIN
- OUTER JOINs
- LEFT OUTER JOIN
- RIGHT OUTER JOIN
- FULL OUTER JOIN
- SELF JOIN

## Creating Database Table stamp

- CREATE DATABASE
- CREATE TABLE
- NULL Values
- PRIMARY KEY
- CONSTRAINT
- ALTER TABLE
- DROP TABLE

