**JAVA Full Stack Course content**

**Duration:100 Hrs**

**Core Java Programming**

* Classes
* Object Oriented Features
* Java Features
* Methods, Fields
* Access Modifiers
* Setters and Getter methods
* JDK, JRE, JVM
* Encapsulation
* Overloading
* Constructors
* String basics
* This keyword
* Inheritance
* Overriding
* Types of Inheritance
* Constructor of Inheritance
* Super keyword
* Dynamic Method Dispatch
* Final modifier
* Abstract modifier
* Static modifier
* Interfaces
* Packages
* Command line arguments
* Wrapper classes
* Nested classes and interfaces
* Blocks in classes
* Basics of JVM
* Exception handling
* IO
* Multi-threading
* Collections framework
* Garbage collection
* Features of Java 8,9,11,17

**Database**

* MySQL
* SQL
* DDL, DML, DCL, TCL
* Views
* Joins
* Subqueries
* Aggregate Functions
* PL/SQL
* Cursors, Triggers, Functions, Procedures

**UI development**

* HTML
* Tags, Static Page Creation
* Doctype, Meta
* URLs
* Images
* Tables
* Input, Button, Form Fields
* CSS
* Style, Class Selectors
* Font, Id Selectors, Text, Border, Padding, Positioning
* HTML with CSS
* JavaScript
* Operators, Variables
* Loops, Arrays, Functions
* Manipulations
* Forms, Images
* Bootstrap
* Grid¸ Responsive design, Layout
* Tables, Lists, Forms
* Groups, Images, Buttons, Navbar
* Panels, Breadcrumbs, Jumbotron, Dropdowns, Tabs, Carousel
* Angular
* Unit testing using Jasmine and karma
* Class Bindings
* Style bindings
* Event bindings
* Components
* Services
* Component interaction
* Routing
* Observables
* Input and output
* Directives
* Modules

**Java Web Development**

* JDBC
* Drivers
* Types
* Statements
* Prepared statements
* Servlet
* Life Cycle
* Session Management
* Config, Context
* Request, Response
* JSP
* Tags
* Implicit Objects
* JSP MVC
* MVC Architecture

**Spring boot Framework**

* Spring vs Spring boot
* CLI, STS, Annotations
* DI, AOP, JPA, Hibernate, with MySQL
* With REST

**ORM - Hibernate, JPA**

* Generator classes, Dialects, Log4j
* Mappings
* JPA vs Hibernate

**MVC Architecture**

**REST Services**

* Components, RS, WS
* RESTful services with SB
* SOAP vs REST

**Micro services Introduction**

* Architecture
* Discovery service
* API gateway
* Inter service communication **(synchronous and asynchronous)**
* Config Server
* Load balancing
* Circuit braker
* Security(JWD –Key cloak)

**Methodologies – Agile**

**Design Patterns**

* Singleton

**Software Testing**

* Unit Testing
* Regression
* White-box
* Component

**Good to Know**

* LOG4J
* GitHub
* Maven
* Junit -Mockito
* Eclipse

### What is JAVA FULL STACK

A Java Full Stack Developer is a software engineer who works on both the client and server sides of a software application. This type of developer works on the ***Full Stack of a software application***, which contains front-end development, back end development, database development, server development, API development, and version control systems. As a result, the title “Full Stack” Developer was coined.

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**Benefits of beginning an Full Stack Java Development career**

If you’re a novice in this field, understanding the significance of a Full-stack Java developer could be beneficial to you. In the meantime, let’s become acquainted with the benefits of making a living in this field that attracts thousands of professionals each year across the globe.

One of the best advantages of studying fully-stack Java development and establishing your career in the field is the exceptional salary.

When you finish your IT’s Java Full stack course in Hyderabad, you will be ready with everything that is needed for developing the end-to-end applications yourself. In this case, you will be trained on how to create responsive and interactive user interfaces using dynamic languages, build reliable back-end systems, and link all these up in a streamlined manner. Having gone through this extensive training, you will become an indispensable part of a very competitive job market.

### JAVA FULL STACK Course's Key Highlights

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