

FullStack Java Developer



About QuickXpert Infotech

QuickXpert Infotech provides professional training on some of the most updated, industry-designed certification & job oriented training programs to both students & corporate from experts in both classroom & online training format. Our wide range of courses blended by our placement assistance process have helped our students from both IT & non IT fields to make career in IT Industry.

Overall 30+ Courses - 700+ Companies - 1000s Trained !

Courses Offered - SAP modules, JAVA, Dot Net, Software Testing, Web Development, Oracle, Digital Marketing, Python, Data Science & A.I., Salesforce, Tableau, Power BI, Android, Hybrid Apps, R, Hadoop etc. please visit website for details.

Our Live Projects - BiodataKing, TeriMeriChoice, theVibrantBirdie etc.

About The Course

Java is 1 of Leading Technologies in World in all formats Desktop, Web & Mobile Applications. Hence it always have job opportunities in IT Industry. In this course you will Learn All Latest Java Technologies viz. Core Java, Adv. Java & Java Frameworks like Spring & Hibernate along with good hands on Latest frontend Development tool like Angular with Projects to help you **become a Full Stack Java Developer !**

Who Can Learn?

Fresher or Experienced candidates from either IT or non IT background who want to Build their Career as Java Developer.

Duration & Training Packages

Courses :

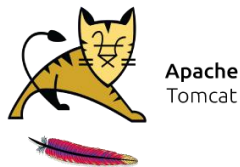
- ❖ **Core Java** + Project – 1 month 1 week
- ❖ **Adv. Java** + Web Desing Components with Ajax, JSON etc. + Project – 1 month 1 week
- ❖ **Java Frameworks** – Hibernate & JPA, Spring Core, Spring Boot, Spring Boot RESTful Services, Spring Boot MVC + Project – 1.5 months
- ❖ **Angular** + Angular with Spring Boot – 1 month

Training Packages :

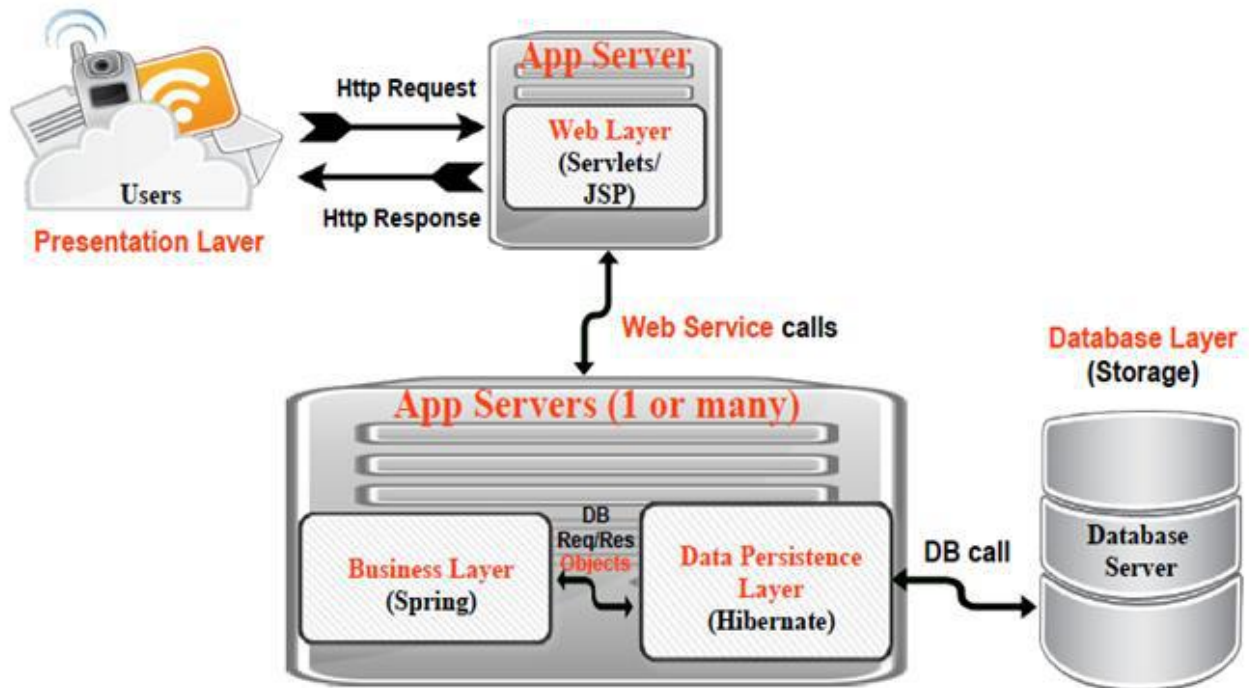
- ❖ **Pkg1** - Full Stack Java Developer – 4 months
- ❖ **Pkg2** - Full Stack JAVA Developer + Angular – 5 months

Note – Adv. Spring Boot (optional) to those interested (not expected at fresher level) – Covers Spring Boot Transactions, Microservices and Spring Security - 1.5 to 2 weeks (hence kept in end)

Tools You Will Learn



n-Tier Application You Will Develop



MVC – Model, View & Controller

Job Roles Eligible

- ❖ Java Developer
- ❖ Full Stack Java Developer
- ❖ Software Developer
- etc.

(syllabus as mentioned below)

Core Java

❖ Introduction to Java

❖ Java Installation & Configuration using Eclipse

❖ Java Basics

- Variables
- Datatypes
- Static Variables etc

❖ Creating Classes, Objects & Methods

❖ Control Structures

- If - Else if - Else
- Do.. While
- While
- For Loops
- Adv For Loops etc

❖ Logic Building Sessions with Practical's

❖ Arrays

❖ String

- String Operations
- String Buffer
- String Builder
- String Tokenizer
- Integer, Double etc class & functions

❖ Date

- Date functions
- Calendar Control
- DateFormat Class
- SimpleDateFormat Class

❖ **Immutable Concept**

❖ **Access Modifiers - Public, Private, Protected & Default**

❖ **Packages**

❖ **OOPS Concepts**

- Inheritance
- Polymorphism
- Encapsulation & Java Beans
- Abstraction
 - Interface
 - Multiple Inheritance using interface
 - Default Methods
 - Static Methods
 - Application Constants etc
 - Abstract Class
- Mini Project on Bank Application on OOPs Concepts

❖ **Anonymous & Nested Class**

❖ **Exception Handling**

- Using Try..Catch...Finally Block
- User Defined Exceptions
- Throws and Throw

❖ **Collection Framework & Generics**

- Understanding Collection Framework
- List
- ArrayList
- LinkedList
- Vectors
- Using Generics & Non Generics in Collections
- Enumeration
- Set & HashSet
- Map & HashMap
- SortedSet
- SortedMap

❖ Using java.util.Collections Class

- Collection Sort, Shuffle etc
- Synchronizing Collections
- Comparator & Comparable Interfaces and their usage

❖ MySQL

- Setup & Configuration
- Using Professional Tool - MySQL Workbench
- Creating Database
- Creating Tables
- CRUD Operations

❖ JDBC

- Creating Tables
- CRUD Operations
- AutoKey Generation

❖ JDBC & Collections Integration

❖ Multi Threading

- Basics – Thread and Runnable Interface
- Thread Joins
- Thread Synchronization
- Executor Service - Fixed Thread Pool

❖ File IO

- IO Streams examples
- Reader & Writer

❖ Serialization

❖ Lamda Experssions (Latest)

- Functional Interface
- Looping Through Collections

❖ Project

Advanced Java

❖ Tomcat Installation

❖ Creating Forms

- Creating 1st Project
- Creating HTML Forms
- CSS Integration
- J2EE Architecture Overview
- Servlets & JSP APIs and Life Cycle

❖ Servlet Programming

- Introduction to Servlets
- Creating GET & POST Forms in HTML & interacting using servlet
- Using Servlets POST & GET Methods and their variables

❖ JSP Forms & Scriptlets

- Scriptlet tags
- Creating JSP Pages
- Invoking Java Methods in JSP

❖ JDBC / MySQL Integration

- Integrating MySQL with J2EE Application
- Using JDBC Classes in application development

❖ Servlet Routing

- Send Redirect
- Request Dispatchers – Include and Forward
- Difference between Request Dispatchers and Send Redirect
- Login Application using Request Dispatchers and Send Redirect

❖ JSP Routing

- JSP Forwards
- JSP Includes

❖ JSP Directives

- Include, Headers, Footers etc.

❖ Session Handling

- Server Level - Session Object
- client Level - Cookie Object
- Security Implementation using Session Handling

❖ Filters

- Creating Filters
- Centralization of Security Implementation of Different Modules using Filters
- Integrating Session handling with Filters for Security Implementation

❖ JSTL - JSP Tag Library

- Core Tags
- Function Tags
- Formatting Tags
- Expression Language

❖ File Handling

- File Upload
- File Download

❖ Error Handling & Error Pages

- Configuring web.xml
- Creating Error Pages
- Handling 404 error
- Handling User Defined and Run time Errors

❖ AJAX & JSON

- Creating AJAX forms
- Understanding Difference between regular and Ajax forms
- Integration AJAX and JSON with Servlets & JDBC

❖ Project (Using Bootstrap)

Frameworks (Hibernate, Spring & Spring Boot MVC)

❖ **Hibernate / JPA**

- Configuration in MAVEN
- Creating Models
- Mapping Hibernate to Database
- Creating Mappings & Joins
 - 1 to 1
 - Many to 1
 - Many to Many
- Hibernate Cache
 - Level1 & Level2 Caches

❖ **Spring**

- Introduction to Spring Framework
- Configuration in MAVEN
- Creating 1st Spring Project & XML Configuration
- Creating Spring Beans

❖ **Autowiring**

- Understanding IOC Container & Dependency Injection
- XML Based Dependency Injection
- Annotations Based Dependency Injection

❖ **Collections in Spring**

- List, Set, Map, Properties
- Integrating Collections with Database

❖ **JDBC**

- MySQL configuration with Spring
- Spring JDBC Template
- CRUD Operations
- Fetching auto generated keys

❖ AOP – Aspect Oriented Programming

- Configurig in XML and using Annotations
- Before, After and Around Methods
- Complex implementation using Around Method

❖ Spring Boot

- Introduction to Spring Boot
- Software Installations
 - STS (Spring Tool Suite)
 - POSTMAN App

❖ Creating Spring Boot Project

- Using Spring Initializer
- Creating 1st Spring Boot Project
- Dependency management using Spring Boot starters
- Configuring and using Loggers

❖ RESTful API with Spring Boot

- Benefit of using RESTful Webservice
- @RestController
- @GetMapping
- @PutMapping
- @PostMapping
- @DeleteMapping
- @ResponseStatus
- @RequestBody
- @ResponseBody
- HttpStatus Codes
- ResponseEntity

❖ Hibernate / JPA Integration RESTful API

- Integrating Hibernate / JPA with RESTful Services
- @Repository Layer
- @Service Layer

❖ Spring Boot MVC

- Introduction to Spring MVC
- Boot packaging options, JAR or WAR
- @Controller
- @RequestMapping
- @GetMapping,
- @PostMapping etc
- @PathVariable
- Creating Dynamic URLs
- Creating JSP forms and JSTL integration
- JSP Routing using Spring Boot
- JPA / Hibernate Integration
- Integrating Spring JDBC Template with Spring Boot
 - @Component
- Server Side Validation
 - Using Hibernate Validator Interface
- Security Implementation using Filters
- Ajax JSON Integration with Spring Boot
- Bootstrap with Spring Boot
- **Project**

Angular 12

❖ Angular 12

- Installing Angular 12 using Node.js
- Typescript programming
 - Variables & Constants
 - Classes & Objects
 - Interface
 - Inbuilt functions
 - User defined functions
 - Conditional statements
 - Printing in console
- Angular components and modules
- Form designing in Angular
- Angular CSS syntax
- Angular template syntax and data binding: Interpolation and Event binding
- Angular Pipes
- Angular Directives
- Angular Services
- Angular HttpClient
- Angular Routing
- Angular Material
- Integrating Angular with Spring Boot
- Angular With Spring Boot
 - Using RESTful Services
 - CRUD Operations
- Project

Advanced Spring Boot (optional)

❖ **Note** – Not expected at fresher level however if you enroll you can demand good pay package in your HR round.

❖ **Transactions in Spring Boot**

- Creating Wrapper Classes
- @Transaction
- Implementing Commit / Rollback
- Transaction Propagation Overview

❖ **MicroServices**

- Introduction to Spring Boot Microservices
- Understanding Distributed Application Development System
- Configuring Eureka – Spring Cloud Micro Services Server
- Registering projects with Eureka Cloud Servers
- Implementing Gateways
- Creating & Using Micro Services

❖ **Spring Security**

- Understanding Spring Security
- Using WebSecurity Adapters
- Creating Authorization Request
- BCrypt Password Encryption for storing and validating passwords
- Implementing Full Spring Security Application

❖ **Project**

Our Benefits

- ❖ **Training from Experts**
- ❖ **Installments Available**
- ❖ **80% Practical's** - Learn from Scratch
- ❖ **Notes & Study Material Provided**
- ❖ **Job Oriented Course**
- ❖ **Certification Course**
 - All participants will get Course Completion ISO Certificate from our Institute. Since we are ISO Certified our Certificate is Acceptable Everywhere.
- ❖ **Live Projects / Case Studies Covered**
- ❖ **Dedicated HR Team for Placements**
- ❖ **Students Placements in Industry**
 - Check Our Recent Placed Students on Site / our FB Page / our Google Page
- ❖ **Interview Preparation & Mock Interviews**
- ❖ **Resume Building etc.**

Please visit site for more info or reach us

Our 5 Steps Process for Success



Contact Us

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Inquire Now !

