

Full Stack JAVA Developer Course

quickxpert

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Best institute for IT training and placements for classroom and online training for students and corporates. We are an ISO certified institute and in the industry since 2014. Our strong training and placement team have helped thousands of students build their career.

Courses - JAVA, Dot Net, Software Testing, Web Development, Full Stack Development, MERN, MEAN, Oracle, Digital Marketing, Python, Data Analytics, Data Science & A.I., Cyber Security, Salesforce, Service Now, Tableau, Power BI, Excel, React, Angular etc.

Live Projects - MarriageKing, theVibrantBirdie, CRM etc

Corporate Trainings - GeBBS Healthcare, NVest Solutions, Infogix, PDG Software, GMV India etc.

Syllabus mentioned below.

Tools You Learn



& more ...

Web Designing

Learn

- HTML & HTML5
- CSS & CSS 3
- Media Query
- Javascript
- JQuery
- Twitter Bootstrap Framework
- Responsive Website Designing
- On Page SEO Techniques
- PHP Static Websites

Web Design Overview

- About Responsive Website Designing
- VS Code Installation

HTML

- Table
- Types of Lists
- Forms
- Head tag & Meta tag
- Layout
- Classes and ID
- Div Tags

- Paragraph Tag
- Formatting Tags
- Anchor Tag
- Quotations Tags
- Marquee Tag
- Image Tag

HTML5

- Section Tag
- Article Tag
- Source
- Header
- Video
- Audio
- Keygen
- Canvas

HTML 5 Validations

On-page SEO Techniques

- Meta Tags - Title, Description, tags etc.
- Header Tags - H1, H2, H3, H4, H5 etc.

CSS & CSS3

- Basics
- Background Image & Colors
- Selectors
- Declaration & Types
- Fonts & Text Properties
- Text Shadow, Gradients etc.
- Overflow & Display Properties etc.
- Effects - Border Radius, Box Shadow etc
- Box Model - Border, Margin etc
- Units in css
- Positions - Static, Absolute, Relative, Fixed, Sticky etc
- Transforms - 2d & 3d Effects
- Transitions - Color Effects
- Animations
- Menu & Navigation Bar
- Chrome's Inspect Element for Desktop & Mobile for Runtime CSS Manipulations

Media Query

- Overview
- Responsive website designing using media queries
- Creating CSS Media Query Files
- Device Width wise CSS Programming

JavaScript

- Basics
- Variables, Operators, Data Types etc
- Programming
 - If-else
 - Switch Case
 - While & Do While
 - For – Loops etc.
- Logic Building Sessions
- Creating Functions
- Inbuilt Functions
 - Date, Number
 - String
 - Numeric
- Arrays
 - 1D Array
 - 2D & Multi-Dimensional Array
- Methods
- Objects
- Event Handling
 - On Click
 - On Keyup
 - On Change
 - On Keypress
 - On Keydown etc.

- Regular Expressions
- HTML DOM (Working with Frontend)
 - getElementById
 - getElementsByClassName
 - document.write etc
- Js Form Validations
- Alert Box ,Prompt ,Confirm etc

jQuery

- Basics
- Effects
- DOM Parsing
- Form Validations
- Events
- functions
- Creating Images
- Inbuilt Functions
 - redirect
 - html
 - text
 - find
 - siblings
 - parents etc.
- Dynamic CSS Programming
- Hide and show element etc

Bootstrap

- Basics & Introduction to Responsive Website Designing
- Grid System
- Card
- Table, Text & their Classes
- Image & Image Classes
- Button & Button Classes
- Creating Dropdown
- Creating Loader
- Creating Progressbar
- Breadcrumbs
- Pagination
- List
- Panel
- Media Object
- Font Awesome & Glyph Icons
- Forms
- Menus & Navigation Bar
- Carousel
- Tooltip
- Pop Hover
- Scroll Spy
- Affix
- Modals – (Pop ups)

Project

SQL

Learn on Oracle SQL or MySQL

- Asked in most interviews (SQL part is same)

Basics & Installations

- MySQL or Oracle Server Installation
- MySQL Workbench or Oracle SQL Developer Installation (client)

DDL - Data Definition Language

- Tables - Create, Alter, Drop, Auto Increment
- Constraints - Not Null, Primary Key, Unique Key, Foreign Key
- Index - Why required, Create, Drop

DML - Data Manipulation Language

- Insert, Update, Delete & Truncate

Transactions

- Commit & Rollback

DQL - Data Query Language (Select)

- Filters
 - Operators - <, <=, >, >=, =, !=

- BETWEEN
- IN
- LIK
- NOT
- NULL
- AND, OR, NOT
- Multi conditions filtering
- DISTINCT
- Limit, offset
- Sorting
 - Ascending Order
 - Descending Order
 - Multi Column Sorting
- Functions
 - Data, number, characters, null values etc.
 - Case
- Groups
 - Grouping functions - AVG, MIN, MAX, COUNT, DISTINCT COUNT
 - Grouping Filters - HAVING
- Joins
 - Cartesian Product
 - Equi and Non-Equi Joins
 - Left Outer Join
 - Right Outer Join
 - Full Outer Join

- Self Join
- SET Operators
 - Union, Union All, Intersect, Minus
- Subquery
 - Single Valued
 - Multi Valued
- Views & Inline Views
- Project

Core Java

Introduction to Java

Eclipse Installation & Configuration

JVM Architecture

- ClassLoader subsystem

Java Basics

Variables

Datatypes

Static & final Variables

Command Line Arguments

Creating Classes, Objects & Methods

Control Structures

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

Arrays

- 1D & 2D Arrays

Logic Building and programming

- Pattern programs
- Prime number
- Fibonacci number
- Factorial
- Recursion

Data Structures

- Linear Search
- Bubble sort

Inbuilt Classes & Methods

- String
 - String methods – *length, substr, charat, instr, toString(), toCharArray, trim, equals, equalsignorecase, trim, uppercase etc.*
 - String Buffer & String Builder
- Wrapper Classes
 - Integer, Double etc class & functions
- Date
 - Date methods
 - Calendar API
 - DateFormat
 - SimpleDateFormat

- DateTime API (latest)
 - Date methods
 - Calendar API
 - DateFormat
 - SimpleDateFormat

JAVA Immutable Concept

Access Modifiers

- Public, Private, Protected & Default

Packages

OOPS Concepts

- Inheritance
- this keyword
- toString() method
- Relationships
 - is-A relationship
 - has-A relationship
- Polymorphism
 - method overloading
 - method overriding
 - final keyword
 - compile time & runtime polymorphism
- Encapsulation
- Abstraction

- Interface
 - Extending interface
 - Functional interface
- Abstract Class
- instanceof operator
- Nested & Anonymous Class

Exception Handling

- Try..Catch...Finally Block
- using internal exceptions
- User defined exceptions
- throw and throws keyword

Collection Framework & Generics

- Arrays
- Vectors
- Enumeration
- List
- ArrayList
- LinkedList
- Using Generics
- Set
- SortedSet
- HashSet
- Map

- HashMap
- SortedMap

Using java.util.Collections Class

- Collection Sort
- Collection Shuffle
- Comparator
- Comparable

MySQL & JDBC

- MySQL Installation
- CRUD Operations (Create, Read, Insert, Update, Delete)

JDBC

- Java MySQL Integration using JDBC Driver
- JDBC Classes: Connection, ResultSet, Prepared Statement etc.
- CRUD Operations
- Handling Exceptions
- Collection integration with List & Set

Multi Threading

- Basics
- Thread Joins
- Thread Synchronization

- Runnable Interface
- Executor Service - Fixed Thread Pool
- Integrating Collections with Threads

File IO

- IO Streams examples
- Reader & Writer
- Serialization & De Serialization
- Transient

Lamda Experssions

- Functional Interface
- Looping Through Collections
- Calling Methods

Stream API

- Intermediate Operations:
 - These operations return a new stream, allowing for chaining.
 - filter(), map(), sorted(), distinct(), peek(), and limit
- Terminal Operations:
 - These operations consume the stream and produce a result or a side effect.
 - forEach(), collect(), reduce(), min(), max(), count(), anyMatch(), allMatch(), findFirst() methods

Advanced Java

Environment Configuration

- Installing Apache Tomcat
- Setting Up Eclipse with Apache Tomcat
- J2EE Architecture Overview
- Creating Web-app application
- Servlets & JSP APIs and Life Cycle

Creating Web Forms

- Form designing in HTML
- Sample application in HTML

Servlet Programming

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

JSP

- Creating JSP Pages
- Scriptlet Programming for JSP Programming
- Scriptlet tags
- Invoking Java Methods in JSP
- Integrating HTML & JSP
- Working with HTML forms & Servlets in JSP

- JSP Directives
- Include, Headers, Footers etc.

Routing

- Servlet Routing with JSP
- Send Redirect
- Request Dispatchers – Include and Forward
- Difference between Request Dispatchers and Send Redirect

Login Application

- Login Page
- Routing using Request Dispatcher & Send Direct
- Routing JSP pages in multiple Directories
- Logoff Page

User Session Management

- Sessions (Server side session management)
- Cookies (Client side session management)
- Implementing Security using Sessions and Send Redirect in Login Application

MySQL Integration

- (note – MySQL and JDBC already covered in Core Java)
- Configuring MySQL Jar file in Web Application
- Integrating MySQL & JDBC with Servlets

Advanced Login Application

- Creating users with roles in database
- Creating programs with JDBC integration to work with database and user authentication
- Authentication - user login authentication using JDBC
- Authorization - Role based access management using Sessions

Filters

- Basics
- Centralizing routing using filters
- Filter Chaining

SOCKET PROGRAMMING

- IP Address and Port number
- TCP AND UDP SOCKET
- Serversocket and Socket class
- One to one and many to one model
- Chat program using socket

AJAX & JSON with Google Gson API

- Understanding Difference between regular and Ajax forms
- Creating AJAX forms in JSP
- Integration with Servlets
- Collections and MySQL integration
- Convert collection results using Gson in JSON
- Consuming JSON response to show results on JSP forms

JSTL

- Introduction
- Using JSTL programming tags
- JSTL formatting tags
- JSTL functions

Project

- Integrating Bootstrap with JSP
- Creating end to end application using Bootstrap, Ajax, jQuery, JSTL, JDBC, Sessions etc.

Hibernate & ORM

- Configuring Hibernate and MySQL
- Understanding ORM framework
- Hibernate Properties
- Using JPA
- Creating Tables, indexes, columns, primary keys, foreign keys using Hibernate
- HQL
- Criteria
- 1 to 1 mapping
- many to 1 mapping
- many to many mapping
- Cache

Spring Framework

Introduction

- Spring Framework configuration using MAVEN in Eclipse
- Spring IOC & Dependency Injection Principles

Spring XML Based Project

- Building first Spring project
- Working with Class, Objects etc in XML
- Using Property & Ref Arguments
- Understanding Singleton, Prototype & Lazy Objects

Autowiring & Qualifier

Collections

- List, Set, Map, Properties

AOP – Aspect Oriented Programming

- Before, After and Around advices, @Aspect etc annotations

Spring JDBC

MySQL configuration with Spring

Spring JDBC Template

CRUD Operations

Fetching auto generated keys

Spring Boot MVC

Basics and Installations

- STS (Spring Tool Suite)
- POSTMAN App

Creating 1st Spring Boot Project

- using Spring Initializer website
- Creating 1st Spring Boot Project
- Dependency management using Spring Boot starters
- JPA / Hibernate Integration
- Creating DAO, Service etc. Classes

REST API

- REST Api overview
- Creating REST API in Spring Boot using below classes:
 - `@RestController`
 - `@GetMapping`
 - `@PutMapping`
 - `@PostMapping`
 - `@DeleteMapping`
 - `@ResponseStatus`
 - `@RequestBody`
 - `@ResponseBody`
 - HttpStatus Codes
 - `ResponseEntity`
- Performing CRUD Operations
- Testing with POSTMAN

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
- Spring Boot Annotations & Usage
 - @Controller
 - @RequestMapping
 - @GetMapping,
 - @PostMapping etc
 - @PathVariable
 - @RequestBody
 - @RequestParam
 - @Qualifier
 - @Primary
 - @Profile
 - @Bean
 - @Component
- Creating Dynamic URLs
- Creating JSP forms and JSTL integration
- JSP Routing using Spring Boot

- JPA / Hibernate Integration
- Integrating Spring JDBC Template with Spring Boot
- Server Side Validation
- Session Management
- Using Hibernate Validator Interface
- Ajax JSON Integration with Spring Boot
- Bootstrap project on Spring Boot

Microservices

- Introduction to Spring Boot Microservices
- Microservice vs monolithic
- Advantages Of Microservices
- Hikari Pooling in spring boot
- APIGATEWAY
- EUREKA SERVER
- RestTemplate

Spring Security

- Introduction to Spring Security
- Core concepts and architecture
- Authentication and Authorization fundamentals
- Spring Security integration with Spring Boot and auto-configuration
- Understanding UserDetailsService and UserDetails
- Securing Web Applications:

- Configuring security for web applications, including filter chains.
- Endpoint security using `antMatchers()` or similar configurations.
- Password storage and Password Encoder implementations (e.g., BCrypt).
- Role-Based Access Control (RBAC) and permission-based authentication.
- Cross-Site Request Forgery (CSRF) protection.

Advanced Security Topics

- JSON Web Token (JWT) based authentication for REST APIs.
- Cross-Origin Resource Sharing (CORS) configuration.
- Securing microservices with Spring Security

Duration

- Weekdays (MTTF, Wed is off/practice break)
 - Option 1 – 6.5 to 7 months - 1.5 to 2 hrs/day
 - Option 2 – 4.5 to 5 months – 2 to 2.5 hrs/day
- Weekends (S S)
 - Option 1 – 7 to 7.5 months - 2 to 2.5 hrs/day
 - Option 2 – 5 to 6 months - 2.5 to 3 hrs/day

more info - <https://quickxpertinfotech.com/JAVA-course>

Note - Addon Angular / React available

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