

Adv. Full Stack JAVA Developer Course



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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

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

- Operations: filter(), map(), sorted(), distinct(), forEach(), collect(), reduce(), min(), max() etc.

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

- Basics
- Network calls through programs

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

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
- Project on Ajax JSON JSP integration with Spring Boot REST Services

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

React.js

- Introduction
- Installing Nodejs & React
- Vs Code setup & Configuration
- Creating React App
- Folder Structure
- JSX Syntax
- Creating Components
- Event Handling
 - On Click
 - On keyup
 - On change
 - On keypress
 - On keydown, etc.
- Adding CSS
- Adding Bootstrap
- Props(Properties)
- Router
- Hooks
 - useState
 - useEffect
 - useParams
 - useLocation etc.
- Working with Forms
- Rest API with React

- React with PHP Backend
- CRUD Operations
- Redux
- AXIOS
- Taiwind CSS
- Project

Next.js (addon)

- Pre-requisite: React. Duration 3 weeks to 1 month extra
- Introduction
 - What is Next.js?
 - Next.js vs React
 - What is SSR in Next.js?
 - Core Features
 - Pre-Rendering (SSG vs SSR overview)
- Installation & Project Setup
 - Install Node.js
 - Install Next.js
 - Starting Next.js Server
 - Folder Structure
- Routing
- Data Fetching & Rendering
- Functions & APIs
 - NextRequest
 - NextResponse
 - API Routes
- Metadata & SEO
 - generateMetadata() & generateImageMetadata
- Image Imports & Optimization
- Database Integration With MongoDB & Perform CRUD Operations
- Styling Support
- Project

MYSQL

Learn both MySQL & Adv. MySQL

- Asked in most interviews

Basics & Installations

- MySQL Server
- Workbench (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
- LIKE
- 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
- Procedures
 - Programming basics - if..else, for loop
 - Procedures - create, drop
- Functions - create, drop
- Triggers - create, drop
- Project

Duration

- Weekdays – 8 months
- Weekends (S S) – 10 months

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

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etc.

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