Java Full Stack Course in Chennai

Become a Job-Ready Full Stack Developer with Java, Spring Boot & React

Build real skills across the full stack: Core Java, SQL, JDBC, Servlets & JSP, Java 8, Spring, Spring Boot and Spring Data JPA on the backend, and HTML, CSS, JavaScript and React on the front end - and finish with a complete full-stack project. Learn step by step from first program to deployed application.

Your Trainers

Kaviya K — Java Full Stack Trainer
4+ Years Experience

Rajesh G — Technical Trainer, Greens Technologies
5+ Years of Overall Experience

Indhumathi A. — Technical Trainer, Greens Technologies
3+ Years of Experience

Course Curriculum

Phase 1: Core Java Modules 01–07

Java fundamentals, OOP, collections, exceptions and multithreading.

01. Java Basics

- Java introduction, Eclipse & JDK installation
- Simple Java program, main method & System.out
- Data types & programs
- Variables & types of variables
- Multiple class access: same package & different package
- Scanner & Scanner methods

02. Modifiers, Operators & Control Statements

- Access & non-access modifiers
- Operators & types of operators
- Control statements & types

03. Arrays & Strings

- Arrays & types of arrays
- String & types of String
- String interview programs

04. Constructors & OOP Concepts

- Constructors & types of constructors
- Inheritance & polymorphism
- Abstraction & encapsulation

05. Collections Framework

- List, Set & Map methods
- Internal working: HashMap, HashSet, Hashtable & TreeMap
- Cursors, Comparable & Comparator
- LinkedList, ArrayList & TreeSet internal implementation
- Iterators & collection interview programs

06. Exception Handling & Multithreading

- Types of exceptions & user-defined exceptions
- Multithreading & thread methods
- Synchronized keyword & inter-thread communication

07. Advanced Core Java

- Recursion & variable-length arguments
- Enum class & Java debugging
- File handling
- Wrapper classes, inner classes & anonymous classes
- Regex & garbage collector (finalize)

Phase 2: Database & Advanced Java Modules 08–10

SQL with MySQL, JDBC, Servlets & JSP, and Java 8 features.

08. SQL

- SQL introduction & MySQL Workbench installation
- Data types; CREATE, INSERT & ALTER
- DELETE, UPDATE & SELECT
- Wildcards & aggregate functions
- Primary key & foreign key
- Joins & types of joins
- Subqueries & CASE statements

09. JDBC, Servlets & JSP

- JDBC introduction & IntelliJ IDE installation
- JDBC: create, read, update & delete
- Mini ATM project with JDBC connection
- Servlet & JSP introduction and programs

10. Java 8 Features

- Functional interfaces
- Lambda expressions
- Stream API

Phase 3: Spring & Spring Boot Modules 11–13

Spring Core, Spring Boot REST APIs and Spring Data JPA.

11. Spring Core

- Spring & Spring Boot introduction
- IoC & dependency injection
- First code with Spring XML configuration
- Setter injection, @Autowired & loose coupling
- Constructor injection & Project Lombok

12. Spring Boot & REST APIs

- First code in Spring Boot, application context
- Bean scope: singleton & prototype
- Field, setter & constructor injection
- Loose coupling with @Primary & @Qualifier
- Creating your first API
- Spring Boot project architecture
- CRUD with HTTP methods: GET, POST, PUT & DELETE

13. Spring Data JPA

- CRUD operations with Spring Data JPA

Phase 4: Front End Development & Capstone Modules 14–17 + Capstone

HTML, CSS, JavaScript and React, then a full-stack capstone application.

14. HTML

- Introduction & basic structure
- Tags: head, html, title, meta, style & script
- Semantic & non-semantic tags
- Block-level & inline elements
- Attributes: class & id

15. CSS

- Selectors & colours
- Background, border, height, width, outline & gradient
- Text, fonts & position
- Overflow, float, pseudo-classes & pseudo-elements
- Advanced selectors, z-index & shadow
- Flexbox & Grid
- 2D & 3D transformations, transitions & animation
- Media queries

16. JavaScript

- Variables, data types & operators
- Type conversion, keywords & template literals

- Conditional statements, functions, objects & events
- Arrays, array methods, Math & Date
- ES6: arrow functions, this keyword, forEach, for-in & for-of
- DOM & form validation
- Classes, inheritance & polymorphism
- setTimeout, setInterval, getters & setters, redirect
- Callbacks, promises, async & await
- Exception handling & HTTP methods

17. React

- Introduction & components
- Props, state & events
- Conditional rendering, lists & keys
- Styling, event binding & forms
- Lifecycle, error boundaries & fragments
- Refs, forward refs & callback refs
- Portals & higher-order components
- Context & HTTP
- Hooks: useState, useEffect, useContext & custom hooks

CP. Capstone - Full-Stack Web Application

- Build and connect a React front end to a Spring Boot REST API backed by a MySQL database using Spring Data JPA

Projects & Hands-On Labs

Mini ATM with JDBC
Build a console ATM application in Java that stores accounts in a MySQL database through JDBC and supports create, read, update and delete operations such as balance checks, deposits and withdrawals.

Full-Stack Web Application with React & Spring Boot
Design and build a complete web application. Create REST APIs in Spring Boot with GET, POST, PUT and DELETE endpoints, store data with Spring Data JPA, and consume the APIs from a responsive React front end using hooks, forms and context.

Enrol & Contact

Book a free demo class or a 1-on-1 counselling session.
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25 centres across Chennai, Bengaluru, Coimbatore, Trichy and Salem, plus live online batches. Curriculum may be updated by the trainer to reflect current industry practice.