



JAVA DEVELOPMENT

Write Once, Run Anywhere –
Powering Innovation Everywhere



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MEET OUR INSPIRING PILLARS



Pawan Bhosikar
(Chief Executive Officer)



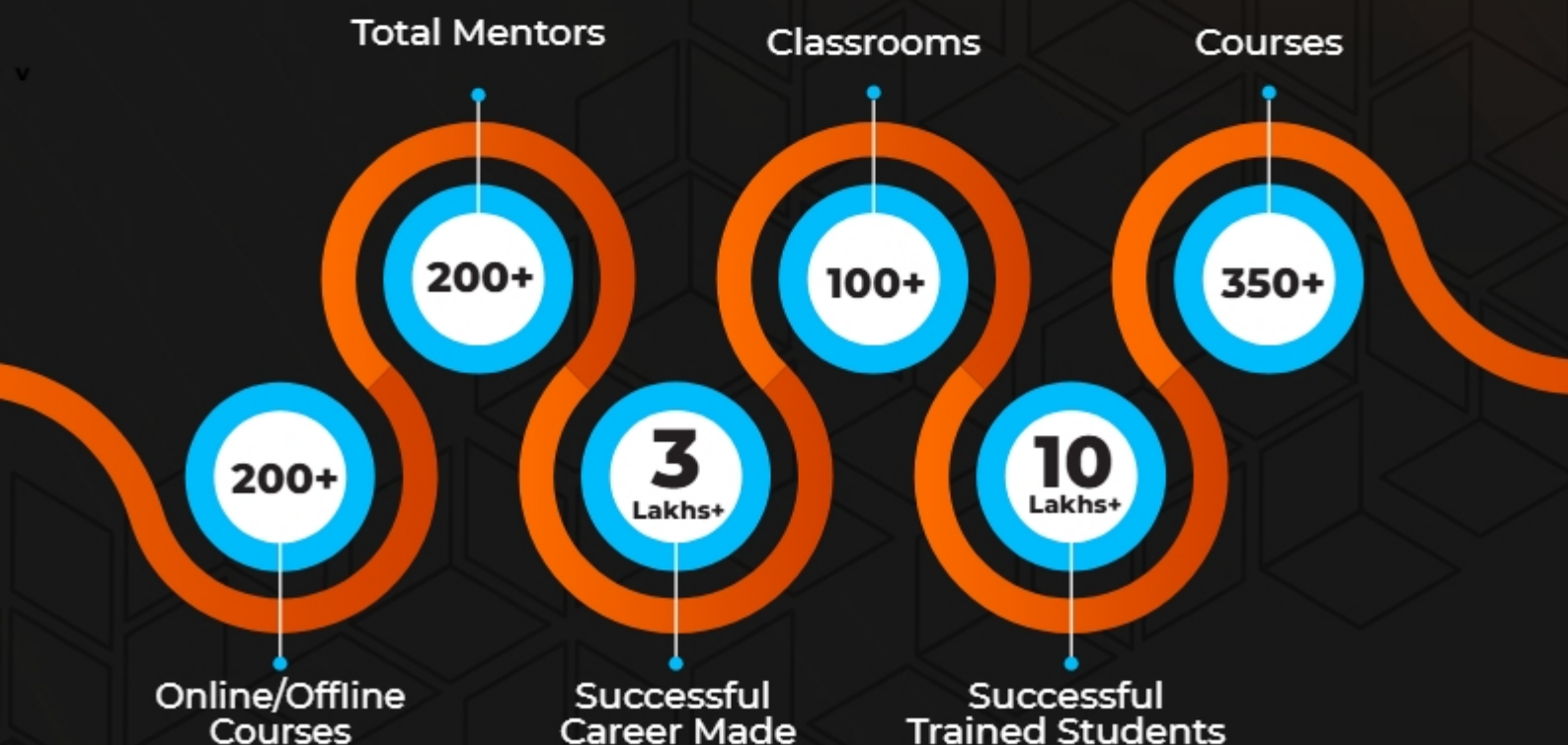
Nisha Mandot
(Chief Financial Officer)

ABOUT US

"SevenMentor" has improvised a tendency to cope with all International Standards within their courses, by engaging both ends of the industry for students, professionals, and individuals to corporate clients. The organization conjointly gives chance within their educational programs to meet the needs with projected desires of quick developing networking trade.

"SevenMentor" education techniques allow honing the abilities of the Networking experts from Industries which allow them to be equipped with the updated technology and standards of their operating environment. The group is a center for technical excellence with the kingdom of the art lab centers & a properly exquisite curriculum which gives them exposure in advance and enables them to be specific inside the certification enterprise.

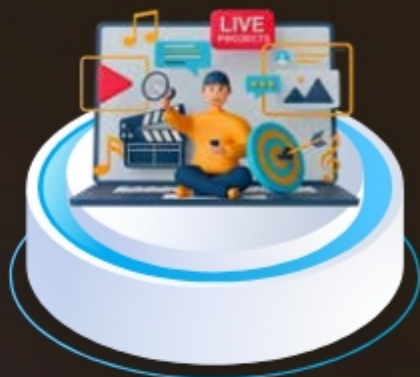
AT A GLANCE, OUR STATISTICS SPEAK VOLUMES



COURSE HIGHLIGHTS



**ONLINE AND
CLASSROOM MODE**



LIVE PROJECTS



**PROFESSIONAL
CERTIFICATES**



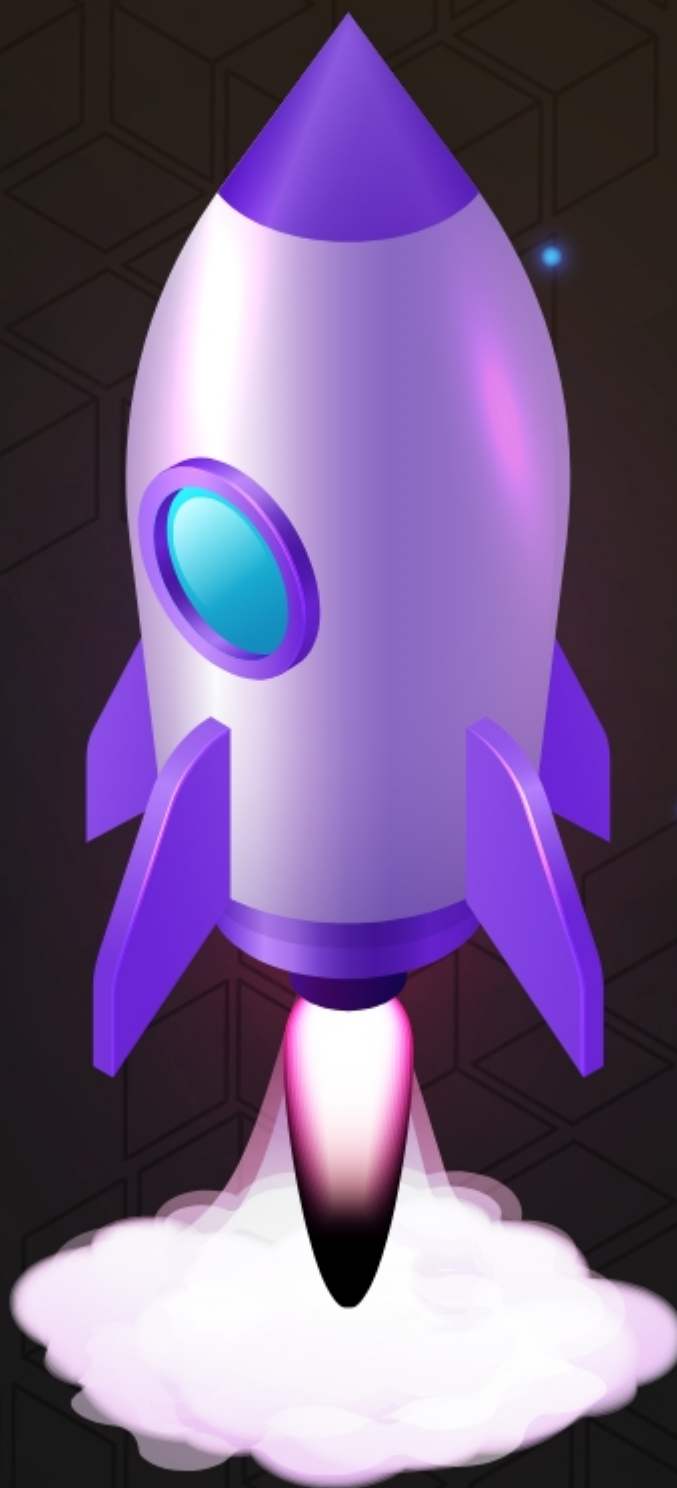
**100% JOB CALLS
ASSISTANCE**



MOCK INTERVIEW



**MULTIPLE CAREER
OPPORTUNITIES**





RESUME
PRESENTATION



INTERVIEW
Q&A



PLACEMENT
TRAINING



ELIGIBILITY
CRITERIA



MOCK
INTERVIEWS



APTITUDE
TEST



SCHEDULING
INTERVIEWS



PLACEMENT AT
YOUR DREAM JOB

CAMPUS DRIVE

SECURE A POSITION IN LEADING COMPANIES



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ROUTE TO SUCCESS

CONFUSED WHAT TO DO IN CAREER..?



1

2

CHOOSE SEVENMENTOR



CAREER COUNSELING WITH EXPERTS



3

4

ONLINE/CLASSROOM EXPERT TRAINING



WHAT WILL YOU GET

- Industry-Based Projects
- Resume Preparation
- Soft Skills Development
- Mock Interview Sessions



5

6

CHARTING NEW PATHS: CAMPUS DRIVE



7

SECURE YOUR SPOT IN LEADING MNCS



TOOLS & TECHNOLOGIES COVERED



JAVA DEVELOPMENT COURSE CURRICULUM



✓ Object Oriented Programming Concepts

- Object
- Characteristics of an Object
- State
- Behavior
- Identity
- Responsibility
- Major Pillars
- Abstraction
- Encapsulation
- 'IS A' relationship – Inheritance
- 'HAS A' relationship – Containment
- Polymorphism

✓ Containment, Inheritance and Polymorphism

- Implementing 'HAS A' relationship
- Container Object and Contained Object
- Implementing 'IS A' relationship
- extends keyword to achieve Inheritance
- Super class and Sub class
- super keyword
- protected keyword
- Polymorphism
- Method Overriding
- Super class reference to create Sub class object
- Reference Type Casting
- Static Type and Dynamic Type of reference
- Covariant return type
- java.lang.Object class and it's methods – toString()

✓ Introduction to Java

- Features of Java
- Java Compiler
- Java Runtime Environment
- Bytecode Verifier
- Class Loader
- JIT Compiler
- JDK, JRE, JVM

✓ Abstract Class and Interface

- abstract keyword
- Abstract class vs Concrete class
- Abstract method vs Concrete method
- final keyword – variable, method, class
- final method vs abstract method
- final class vs abstract class
- Interface
- Role based inheritance
- Multiple Inheritance
- implements keyword
- Implementing interface in a class
- Interface extends interfaces

✓ Java Language Fundamentals

- Classes and Object
- Class Syntax
- Primitive Data Types
- Implicit and Explicit Conversion
- Access specifiers
- Constructor
- Creating object
- Memory Allocation
- Garbage Collection
- Method Overloading
- Parameterized Constructor
- this keyword
- static keyword – variable & method
- main method
- Instance init block & Static init block
- Array – 1D, 2D
- Enhanced for loop - forEach loop
- Variable Argument
- Package
- Importing from packages
- static import

✓ Annotations and Enum

- Annotation
- Creating user defined annotation
- Use of annotation at different levels
- Meta-annotation
- java.lang.annotation.Annotation interface
- Built-in Annotations - @Override, @SuppressWarnings, etc
- Enum
- Creating user-defined Enum
- Enum Constants
- java.lang.Enum class

✓ Functional-Style Programming

- Functional Interface
- Lambda Expression
- @FunctionalInterface
- Method References
- Built-in Functional interface
- java.util.function package
- Predicate, Consumer, Supplier, Function

✓ Utility Classes (java.lang) & Inner classes

- Wrapper classes
- Autoboxing & Autounboxing
- String, StringBuffer, StringBuilder
- String constant pool
- Inner classes
- Simple Inner class
- Static nested class
- Method Local Inner class
- Regex

✓ Exception Handling

- What is exception?
- Type of Errors
- Exception class hierarchy
- Exception Handling Mechanism
- try keyword
- catch keyword
- Checked and unchecked exceptions
- throw vs throws keyword
- finally block
- multcatch
- final re-throw
- try-with-resources (ARM)
- User-defined exception

✓ Multithreading & Thread Synchronization

- Multitasking
- Multiprocessing vs Multithreading
- What is thread?
- Thread Life Cycle
- Creating thread using java.lang.Thread class
- Creating thread using java.lang.Runnable interface
- Thread class and it's methods

- Inter thread communication
- Thread Synchronization
- synchronized keyword
- synchronized method & synchronized block

✓ Collection Framework & Generics

- Collection and it's types
- java.util package
- Generics Syntax
- List – ArrayList, Vector
- Set – HashSet, SortedSet, NavigableSet – TreeSet
- Map – HashMap, SortedMap, NavigableMap – TreeMap
- Hashtable and Properties class
- Importance of equals() & hashCode() methods
- Searching & Sorting Algorithm – Arrays & Collections classes
- Comparable vs Comparator interfaces
- Generic Collections

✓ Stream API

- What is Stream?
- Types of Stream – Sequential & Parallel Stream
- java.util.stream package
- Stream operations – intermediate and terminal operations
- map(), reduce(), filter(), forEach(), limit(), skip() methods
- Collectors – toCollection(), toList(), toSet(), toMap() methods

✓ File IO & Object Serialization

- java.io package
- File class & it's method
- File Reading, Writing and Appending Operation
- Byte Stream – FileInputStream & FileOutputStream
- Character Stream – FileReader & FileWriter
- BufferedReader & BufferedWriter, PrintWriter
- Autocloseable
- Using try-with-resources
- Non-blocking IO (nio)
- java.nio.file package
- Path interface
- Files class, Paths classes

- FileSystem
- Object Serialization
- ObjectInputStream & readObject() method
- ObjectOutputStream & writeObject() method
- transient keyword

✓ Unit Testing

- Introduction
- What is Testing?
- Why Unit Testing?
- Testing Terminologies
- Junit Framework
- Junit Annotations
- Creating Test Cases

✓ Design Pattern

- What is a Design Pattern?
- Type of Design Patterns – Creational, Structural and Behavioral
- Singleton Design Pattern
- Factory Design Pattern
- Facade Design Pattern
- Java9 version features
- Java11 version features

SQL (10 hours)

✓ Introduction to SQL

- What is SQL?
- RDBMS
- Installation of MySQL Database
- SQL Data Types
- SQL Constraints
- Connecting to MySQL
- Creating Database
- Creating Table in Database
- Performing CRUD operations
- A. INSERT Query
- B. SELECT Query with WHERE clause
- C. UPDATE Query
- D. DELETE Query

- A. Inner Join
- B. Outer Join
- C. Self Join
- D. Cross Join

Adv Java (38 hours)

✓ Maven

- What is Maven?
- Features of Maven
- Environment Setup
- Build Life Cycle
- Phases
- Goals
- Plugins
- POM xml file
- Dependency Management
- Maven Dependencies
- Maven Repositories
- Maven Archetypes
- Creating Maven Project using Eclipse

✓ JDBC

- Java Database Connectivity
- java.sql package
- Connection interface
- Driver interface
- Types of JDBC Drivers
- DriverManager class
- Connecting to MySQL using JDBC API
- Statement
- PreparedStatement
- CallableStatement
- ResultSet
- Types of ResultSet – Forward Only, Scrollable
- ResultSetMetaData
- DatabaseMetaData

✓ Introduction to Web Technologies

- Distributed Architecture
- Two-tier Architecture
- Three tier (N-tier) Architecture
- Web Application
- Web Application Architecture

- Web Container
- Web Server
- Web Browser
- HTTP – Stateless Protocol
- HTTP Methods – GET, POST, PUT, DELETE, etc
- HTTP Message Format
- Request Message Format – Request Header, Request Body
- Response Message Format – Response Header, Response Body
- Client Side Programming
- Server Side Programming

✓ Servlet

- Introduction to Servlet
- Servlet API – Servlet, ServletConfig interfaces
- GenericServlet
- HttpServlet
- Servlet Life Cycle
- ServletContext vs ServletConfig
- Servlet Configuration - web.xml
- @WebServlet Annotation
- Creating Servlet
- Configuring Tomcat Server in Eclipse IDE
- Deploying and Running Servlet on Tomcat via Eclipse

✓ JSP

- Introduction to Java Server Pages
- JSP API
- JSP Life Cycle
- Creating and Running JSP Page on Tomcat Server
- Building Blocks of JSP
- JSP Directives
- JSP Implicit Objects
- JSP Scripting Elements
- Scriptlet
- JSP Expression

Web Service

- What is Web Service?
- Web Service vs Web Application
- SOA – Service Oriented Architecture
- Service Provider
- Service Consumer
- Types of Web Service
- SOAP Web Service

- RESTful Web Service
- ROA – Resource, URI and Representation
- Uniform Interfaces
- Creating REST API
- Running RESTful Web Service on Tomcat
- Consuming REST API

Java Framework - Hibernate JPA (32 hours)

Object Relationship Mapping

- ORM Principle
- Drawbacks of JDBC
- Benefits of ORM
- Paradigm Mismatch
- Types of ORM Frameworks

✓ Hibernate JPA Introduction

- What is Hibernate?
- Features of Hibernate
- Advantages of Hibernate
- Hibernate in Layered Application Design
- Hibernate Architecture
- Components of Hibernate
- Configuration
- SessionFactory
- Session and it's methods – get(), load(), save(), update(), delete()
- What is JPA?
- Hibernate and JPA

✓ Simple Class Mapping

- Entity Class
- POJO class and it's advantages
- Hibernate JPA Mapping
- Mapping POJO class with Database Table
- JPA Annotations - @Entity, @Table, @Id, @Column
- Hibernate Configuration
- hibernate.cfg.xml file
- Configuring JDBC Driver, JDBC URL
- Hibernate Dialect
- Creating Hibernate Application
- Performing CRUD operations

✓ Hibernate JPA Entity Life Cycle ✓ Hibernate Caching Mechanism

- Transient State
- Persistent State
- Detached State

- First-Level Cache
- Second Level Cache

✓ JPQL

- Java Persistent Query Language
- From clause
- Where clause
- Order By
- Select clause
- Using Criteria

✓ Component Mapping

- Mapping 'HAS A' relationship
- Creating Contained class
- Creating Container class
- Using JPA Annotations - @Embedded, @Embeddable

✓ Inheritance Mapping

- Types of Inheritance Mapping
- Table Per Class Hierarchy
- JPA Annotations - @Inheritance
- Inheritance Strategy - InheritanceType.SINGLE_TABLE
- @DiscriminatorColumn, @DiscriminatorValue
- Table Per Concrete Class
- Inheritance Strategy - InheritanceType.TABLE_PER_CLASS
- Table Per Joined Subclass
- Inheritance Strategy - InheritanceType.JOINED
- @PrimaryKeyJoinColumn

✓ Relationship Mapping

One-to-One Mapping

1. @OneToOne, mappedBy
2. @JoinColumn

One-to-Many Mapping

1. @OneToMany

Many-to-One Mapping

1. @ManyToOne

Many-to-Many Mapping

1. @ManyToMany
2. @JoinTable

Java Framework – Spring & Spring Boot (60 hours)

✓ Introduction to Spring

- What is Spring?
- Features of Spring Framework
- IoC – Inversion of Control
- DI – Dependency Injection
- AOP – Aspect Oriented Programming

✓ Spring Architecture

- Types of Spring Module
- Spring IoC Container
- Spring Core - BeanFactory
- Spring Context - ApplicationContext
- Spring AOP
- Spring DAO - JdbcTemplate
- Spring ORM - HibernateTemplate
- Spring Web
- Spring Web MVC

✓ Spring Bean and Configuration

- Creating Spring Bean
- Spring Bean Configuration
- Xml Based Configuration
- Annotation Based Configuration
- Stereotype Annotation - @Component
- @Configuration
- @ComponentScan
- JavaConfig - @Bean
- Bean Scoping
- Bean Scopes – singleton, prototype, request, session
- @Scope Annotation

✓ Spring Bean Life Cycle

- Spring Aware Interfaces
- BeanNameAware
- BeanFactoryAware
- ApplicationContextAware
- InitializingBean – afterPropertiesSet()
- @PostConstruct
- Custom Init Method
- DisposableBean
- Custom Destroy Method

✓ Dependency Injection

Constructor Injection

- constructor-arg

Setter Injection

- property

Bean Autowiring

- @Autowired
- @Qualifier

Method Injection

Collection Injection

- List Injection
- Set Injection
- Map Injection
- Properties Injection

✓ Spring Boot

- Introduction to Spring Boot
- Features of Spring Boot
- Spring Boot Starter Dependencies
- @SpringBootApplication
- AutoConfiguration
- Creating Spring Boot Application
- 1. Spring Initializr – <https://start.spring.io/>
- 2. STS - Spring Tool Suite
- 3. Selecting starter dependencies

✓ Spring Data

- What is Spring Data?
- Features of Spring Data
- Spring Data JDBC
- 1. Repository interface and its hierarchy
- 2. Creating custom Data Repository interface
- 3. Performing CRUD Operations
- 4. Custom methods
- 5. @Query, @Param

✓ Spring Data JPA

- JpaRepository interface
- Creating custom Data JPA Repository interface
- Performing CRUD Operations
- Custom methods
- JPQL Queries
- Transaction Configuration

✓ Spring Web

Spring Web MVC

- MVC Architecture
- Spring Web Architecture
- DispatcherServlet
- HandlerMapping
- ViewResolver
- Controller - Request Handler
- @Controller Stereotype Annotation
- @RequestMapping

✓ RESTful Web Service

- @RestController
- @GetMapping
- @PostMapping
- @PutMapping
- @DeleteMapping
- Creating REST API

✓ Spring Security

- Authentication
- Authorization
- Roles
- Permissions
- Features of Spring Security
- Authentication Models
- Password Encoders
- User Store - Types
- OAuth2

✓ Spring Microservices:

- Overview of Microservices Architecture
- Definition of Microservices
- Benefits and challenges
- Monolithic vs. Microservices architecture
- API Gateway Pattern
- Service discovery tools (e.g., Eureka)
- Resilience and Fault Tolerance
- Circuit Breaker Pattern

DevOps(4 hours)

✓ Introduction to DevOps

- Git and Github
- CI/CD tools with Jenkins
- Docker and Kubernetes
- SonarCube

Project Lists(Can Choose any one project)

- E-commerce Web Application
- Online Learning Platform
- Social Media Platform
- Job Portal
- Booking System (Hotel, Flights, or Events)
- Fitness Tracker Web App

MASTER IN JAVA DEVELOPMENT



YOUR DREAM
JOB IS AHEAD

COURSE
EXAM

CASE
STUDY

ADVANCE
SKILLS

INDUSTRY
EXPERT TRAINING

PROFILE BUILDING

ENROLL IN
SEVENMENTOR

Finance & Banking

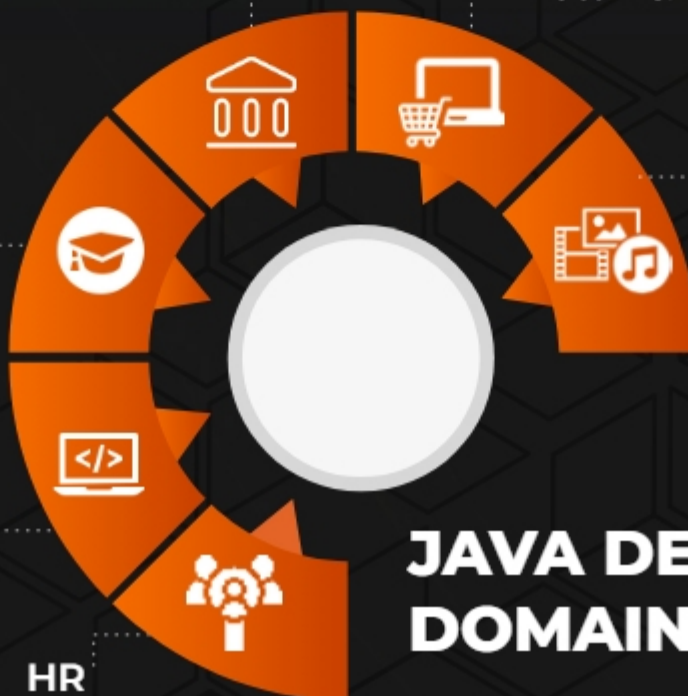
Retail & E-commerce

Education

Marketing &
Advertising

IT

HR



JAVA DEVELOPMENT DOMAIN KNOWLEDGE

YOUR FUTURE AS A JAVA DEVELOPMENT



SALARY RANGE

3 - 6 LPA

10 - 15 LPA

Upto 24 LPA

0 Yrs

4 Yrs

8 Yrs

2 Yrs

6 Yrs

6 - 10 LPA

15 - 24 LPA

JOB METER

Java Developer

1,22,911 Jobs

Backend Developer

1,10,239 Jobs

Full-Stack Developer

2,31,300 Jobs

Software Engineer

2,12,462 Jobs

Android Developer

71,499 Jobs

DevOps Engineer

2,18,644 Jobs

Cloud Engineer

59,914 Jobs

Data Engineer

80,039 Jobs

Java Architect

1,12,399 Jobs

Test Automation
Engineer

40,953 Job

JOB ROLES FOR JAVA DEVELOPMENT

JUNIOR JAVA
DEVELOPER

SENIOR JAVA
DEVELOPER

JAVA SOFTWARE
ENGINEER

BACK-END DEVELOPER

JAVA TEST ENGINEER

JAVA FULL STACK
DEVELOPER

JAVA MICRO
SERVICES DEVELOPER

FULL STACK DEVELOPER

INDUSTRY BASED PROJECT



Hands-on industry-based project by SevenMentor & Training to enhance practical skills and real-world expertise



INVENTORY MANAGEMENT SYSTEM



BOOK MANAGEMENT SYSTEM



ONLINE LEARNING PLATFORM



HEALTHCARE MANAGEMENT SYSTEM



JOB PORTAL SYSTEM

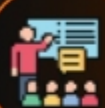
WHY CHOOSE SEVENMENTOR

Empowering Careers with Industry-Ready Skills



Flexible EMI Plans

Adaptive LMS



Industry
Experienced Trainers

Free Wifi Facilities



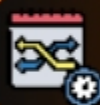
Live Projects With
Hands-on Experience

Be Different With
Master Certificate



Real World Topics

Placement Drives



Flexible Scheduling

Interview Calls
Assistance & Mock Sessions



Online, Classroom
& Hybrid Batches

Weekday and
Weekend Batches



1:1 Mentorship
when required

Ongoing Career Support



Affordable Programs
Tailored to Your Needs

Latest Market Tech
& Practical Training



Class Recordings for
Missed Classes

1 Year FREE
Repeat Option



Workshops & Seminars
with Industry Experts

Unlimited Interview Calls



TESTIMONIALS OF OUR STUDENTS



The software testing course at SevenMentor Training Institute, Pune, is well-structured and practical. The trainers are highly experienced and explain concepts in a simple, easy-to-understand way. Hands-on projects and real-world scenarios make the learning very effective. The institute provides excellent support and placement assistance. Overall, it's a great place to learn and grow in the field of software testing.

Nilesh Lipane



The course materials and resources provided were excellent. SevenMentor really cares about their students' learning experience and this puts their students at a tremendous advantage. I have extensive experience due to learning at SevenMentor and now I'm able to work on my own UI designs. Completing the UI/UX course at SevenMentor gave me a significant career boost. I was able to land a job shortly after finishing the UI/UX certification course from SevenMentor Institute. I urge everyone to join this course if there are serious about their career.

Chetan Sawant



I recently joined the DevOps batch at SevenMentor, and I'm so glad I did. The trainers were amazing—they really knew their stuff and made even tough topics easy to understand. The course was hands-on, which helped me learn tools like Jenkins, Docker, and Kubernetes in a practical way. Thanks to this training, I feel confident about applying DevOps practices in real-world scenarios. If you're looking for solid training in DevOps, I'd definitely recommend SevenMentor.

Vikram Marag



Excellent Training & Placement Support

I am happy to share that I got placed successfully! The trainers were highly knowledgeable and provided in-depth explanations, making even complex topics easy to understand. The hands-on projects and real-world scenarios helped me gain confidence in my skills. Overall, my experience with SevenMentor was excellent. I highly recommend it to anyone looking for quality training with placement support.

Shravani Pawar



I had a great experience with SevenMentor Pvt Ltd's Java, Angular25, and MEAN Stack classes. The instructors were knowledgeable, and the courses offered a perfect blend of theory and hands-on practice. The content was comprehensive, and the real-world projects helped solidify my understanding. Overall, it's an excellent choice for anyone looking to advance their full-stack development skills.

Ansh Puri



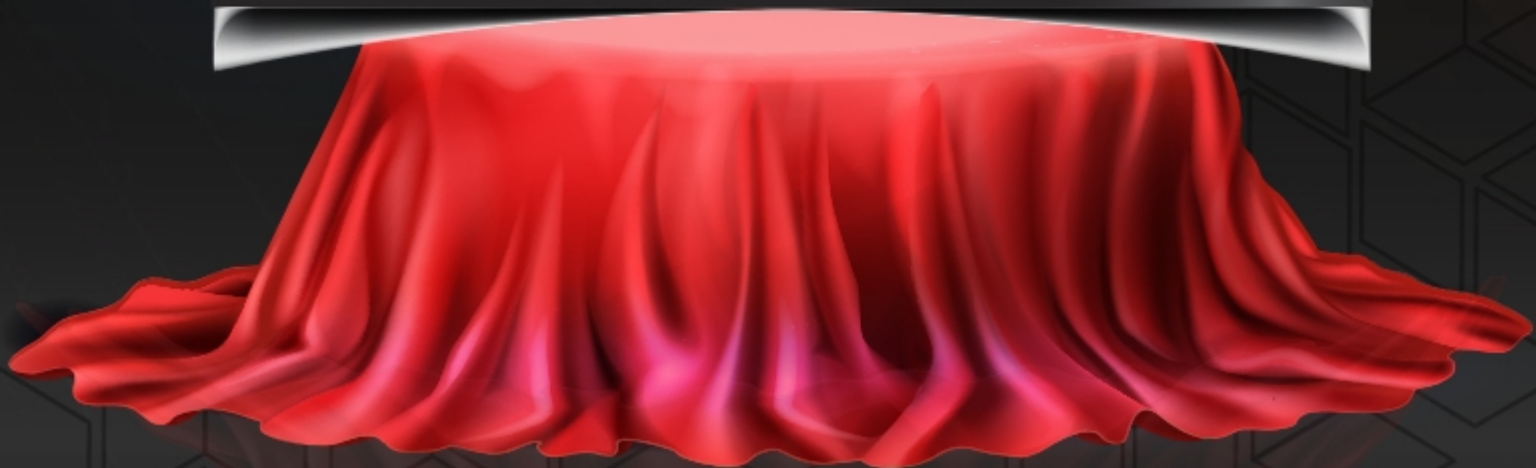
Seven mentor is the best training institute for full stack training in pune. I recommend this center for everyone who looking for practical based training. I had completed Java full stack classes from seven mentor Pune. It was such a amazing experience I am very happy and satisfied with the training provided by trainers right now. I am getting interviews calls as well thanks team Seven mentor

Sanjyoti Choudhari

GLOBAL CERTIFICATION FROM SEVENMENTOR



SevenMentor provides globally recognized certification programs designed to help individuals enhance their knowledge, skills, and career prospects. Our certifications validate the competence and expertise in various fields, including IT, business management, digital marketing, and more. Achieving a SevenMentor certification offers a competitive edge and ensures your capability in your chosen domain.



WHY SHOULD YOU JOIN THIS PROGRAM?

Our 100% Job Assurance Program guarantees that you will secure a job as a data scientist. With access to over 500 leading partner companies, we ensure you have ample opportunities to land your ideal role.

The program is structured to provide comprehensive training, equipping you with the technical skills, real-world experience, and industry insights needed to excel in the field of data science. Additionally, you'll receive ongoing support, including job placement assistance and career coaching, to help you navigate the hiring process. With our program, you're fully prepared to succeed in the competitive job market and launch your data science career.



PLACEMENT TEAM

Our placement staff is committed to your IT career success. With strong industry connections, market insights, and specialized assistance, we prepare you for a competitive job market and assist you in achieving your objectives. We offer individual resume development, mock interviews, and hands-on career coaching to help you stand out to top recruiters. Our dedication extends beyond placements; we provide you with the confidence and skills you need to succeed in your chosen field. At SevenMentor, your success is our priority!

CRM TEAM

At SevenMentor, our CRM team is committed to ensuring that every student has a positive and enjoyable experience. We attentively listen to your issues, answer your inquiries quickly, and provide personalized service that is suited to your specific requirements. Our team takes a student-first approach, ensuring that your needs are handled with professionalism, kindness, and attention to detail. Your satisfaction is our first priority, and we commit ourselves to supporting you every step of the way.

GET INFO OF OUR OTHER DOMAINS



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Networking Department



020 7117 3035

Development Department



020 7117 1500

Data Science
And Ai Department



020 7117 1747

Softskills & Language
Department



020 7117 3116

SAP Department



020 7117 1757

Interior Design & Fashion
Department



020 7117 1727

HR Department



020 4855 6661

Placement Department

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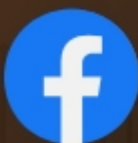
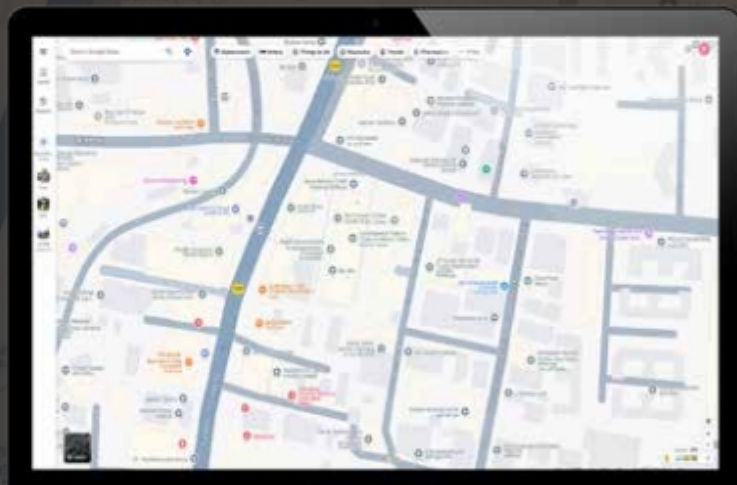
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