

Mastering in JAVA

Java Backend Essentials



- 3 Days Free Trail Session
- 120 Live Interactive lectures
- 150+ hands-on exercises



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More Information

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COD  **MANTRA**

JAVA PROGRAMMING

Level - 1 | Language Fundamentals

- Java- What Where And Why?
- History And Features Of Java
- Internals Of Java Program
- Difference Between Jdk,jra And Jvm
- Variable And Data Type
- Unicode System/ Naming Convention
- Environment Setup
- Compilation And Execution Of Program
- For-each Loop
- Var-arg Function
- Labeled Break / Continue
- Command Line Argument
- User Inputs In Java { Scanner Class }
- Array In Java

Level - 2 | Object Oriented Programming

- Paradigms Of OOP
- Advantages Of Oops
- Object And Class
- Representation Of Object In Memory
- Instance & Class Members
- Encapsulation, Data Hiding & Binding
- Method Overloading
- Static Variable, method And Block
- This Keyword
- Inheritance (Is -a)
- Aggregation And Composition (Has - A)
- Method Overloading
- Covariant Return Type
- Super Keyword / Final Keyword
- Runtime Polymorphism
- Abstract Class And Interface
- Package And Access Modifiers
- Object Class In JAVA

Level - 3 | String Handling

- String: What And Why?
- Immutable String
- String Comparison / String Concatenation
- Method Of String Class
- String Buffer Class / String Tokenizer Class

Level - 4 | Exception Handling

- Exception Handling: What And Why?
- Checked & Unchecked Exception
- Exception Class Hierarchy
- Try And Catch Block
- Throws
- Keyword
- Finally Block / Throw Keyword

Level - 5 | Multithreading

- Multithreading: What And Why?
- Life Cycle Of Thread/ Creating Thread
- Thread Scheduler
- Joining A Thread / Thread Priority
- Garbage Collection / Runnable Class
- Synchronization: What And Why?
- Synchronized Method

Level - 6 | Java I/O Package

- File Class
- Byte Stream Vs Char Stream
- File Output Stream & File Input Stream
- Buffered Output And Input Stream
- File Writer And File Reader
- Data Input Stream And Data Output Stream
- Stream Tokenizer Class

Level - 7 | Collection Framework

- What Is Generics
- Generics Class And Method
- What Is Collection Framework
- Arraylist Class /linkedlist Class
- Hashset / Linkedhashset / Treaset Class
- Map Interface / Hasmap / Hastable Class

Level - 8 | Java Annotations

- What Is Annotation
- Java Annotation Like
- @override
- @suppresswarings
- @deprecated
- @inherited
- @documented
- Java Custom Annotations
- Types Of Annotations

Level - 9 | Other New Features

- Lamba Function
- Wrapper Classes
- Private Method In Interface
- Jshell
- Local-variable Type Inference Var-keyword
- Run Source Files
- Switch Expression { Return Value }

Level - 10 | HTML

- Introduction
- Basic Structure Of An Html Document
- Creating An Html Document
- Html Tags With Attributes
- Html5 Semantic Tag
- Layout Based On Html5
- Project

Level - 11 | CSS

- Introduction
- Types Of Css
- Css Selectors
- Css Properties
- Layout Of Webpage
- Simple Registration Login Layout
- Responsive Css
- Templates
- Project

Level - 12 | DBMS -with MySQL

- Dbms - What, Where And Why
- What Is File System And Disadvantages Of It
- Advantage Of Dbms
- Controlling Redundancy
- Introduction Of Structured
- Query Language
- Sql Data Definition And Data Types
- Specifying Constraints In
- Attribute / Key Refferential Integrity
- Check / Derived Constraints
- Intro Of Ddl, Dml Statements
- Create /update /deleteand Drop
- Select Statement With Where
- From Clause
- Natural / Cross / Inner / Outerj Oin
- Left Quarted / Right Outer / Full Outer Join

Level - 14 | JDBC

- Jdbc Drivers
- Steps To Connect To The Database
- Connectivity With Mysql
- Driver Manager / Connection Interface

Level - 15 | Basic Of Servlet

- Servlet : What And Why?
- Servlet : Api / Servlet Interface
- Genrics Servlet / Httpservlet
- Working With Apache Tomcat Server
- Servlet In Eclipse Servlet Request
- Servlet Request Methods
- Registration Example With Db
- Request Dispatcher / Sendredirect
- Servletconfig Methods

Level - 16 | JSP

- Basics Of Jsp
- Life Cycle Of Jsp
- Jsp Api
- Jsp In Eclipse And Others Ide's
- Scripting Elements | Scriplet Tag
- Expression Tag | Declaration Tag

Level - 17 | Implicit Objects

- Output / Request / Response
- Config / Application / Session
- Pagecontext / Page Exception

Level - 18 | Directive Elements

- Page / Include / Taglib Directive
- Action Elements
- Jsp:forward
- Jsp:include
- Jsp:set Property & Jsp Get Property

Level-19 | Session Tracking/Filters

- Session
- Cookies
- Hidden From Field
- Url Rewriting
- Http Session
- Filter /authentication Filter
- Filter Config

Level-20 | Project Development