



JAVA/J2EE

JOB ORIENTED TRAINING

COURSE CURRICULLM

Duration: 6 Months

J2SE (JAVA 2 STANDARD EDITION)

➔ INTRODUCTION TO JAVA

- Understanding Requirement: why Java
- Why java is important to the internet
- Features of Java

➔ INTRODUCTION TO JAVA VIRTUAL MACHINE (JVM)

- What is Java Virtual Machine
- JVM Architecture
- Components of JVM
- How JVM works

➔ AN OVERVIEW OF JAVA AND BUZZWORDS

- Naming Convention Rules
- Data Types, Variables
- Arrays, Command Line Argument
- Operators
- Control Statements
- Assertion

➔ STRING HANDLING

- Learning String Operations
- Learning different ways to create String Object
- Important methods of String Class
- Understanding of StringBuffer Class
- StringBuilder Class



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Branch office

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Java

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➔ OBJECT ORIENTED PARADIGMS

- Introduction : What is OOPs (Object Oriented Programming System)
- What is the need of OOPs
- Features of OOPs

➔ JAVA CLASSES AND OOPS IMPLEMENTATION

- Class Fundamentals
- Learning static initializer
- Declaration of Objects
- Instance variable Hiding
- Overloading and Overriding of methods
- Understanding Access Controls:
- Private, Public, protected, default
- Learning Nested and Inner Class
- Garbage Collection
- Abstract Class
- Using final keyword to prevent Overriding and inheritance

➔ INTERFACE

- Introduction
- Defining Interface
- Interface Vs. Abstract Class
- Adapter class
- Anonymous Class

➔ EXCEPTION HANDLING

- Fundamentals of Exception Handling
- Types of Exception
- Try, catch and finally clause
- Multiple catch clause
- Nested Try Statements
- Throw and Throws
- Difference between throw & throws
- Creating custom Exception



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➔ WRAPPER CLASSES

- What is wrapper class
- Use of wrapper class
- Multiple wrapper class : Byte, Short, Integer, Long, Float, Double Character, etc.

➔ INPUT/OUTPUT STREAMS (java.io package)

- What is stream
- Binary Stream
- Character Stream
- File Handling
- Creating File
- Reading data from the file
- Writing data on to the file
- Serialization
- Scanner

➔ MULTITHREADING PROGRAMMING

- Introduction
- Creating a Thread : By extending Thread Class
- Implementing Runnable interface
- Creating multiple Threads
- Synchronization : methods and statements

➔ NETWORKING (java.net package)

- Introduction
- URL, InetAddress
- Socket and Server Socket
- Datagram Socket, URL Connection
- Socket Factories

➔ COLLECTION FRAMEWORK (java.util package)

- Introduction
- The Collection interface



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- List, Set, SortedSet
- The Collection Class : ArrayList, LinkedList, HashSet, LinkedHashMap etc.
- Accessing a Collection through Iterator
- Working with Map
- The legacy classes and interface
- Enumeration, Vector, Stack, Dictionary, HashTable etc.
- Handling Data and Time

➔ SYSTEM PROPERTIES AND INTERNATIONALIZATION

- Usage of property file
- Define the Locale
- ResourceBundle
- Fetching text from ResourceBundle

WINDOWS PROGRAMMING

➔ APPLET

- Applet Basic
- Applet life cycle
- Simple Applet Display methods
- The HTML Applet Tag

➔ EVENT DELEGATION MODEL

- Event Listeners
- Event Classes

➔ SWING

- Introduction to JFC
- Controls
-

➔ DATABASE PROGRAMMING USING (JDBC)

- JDBC Introduction
- JDBC Drivers
- Statements
- MetaData



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- Scrollable and Updatable ResultSet
- BatchUpdate

J2EE (JAVA 2 ENTERPRIZE EDITION)

➔ XML (EXTENSIBLE MARKUP LANGUAGE)

- Introduction to XML
- Document Type Definition (DTD)
- Schemas

➔ TIER ARCHITECTURE

- Single Tier Architecture
- Two Tier Architecture
- Three Tier Architecture
- N-Tier Architecture

➔ JAVA NAMING AND DIRECTORY SERVICES (JNDI)

- Introduction : What is JNDI
- DataSource and Connection pooling
- Creating DataSource Object
- How to create connection pool
- Using DataSource & connection pooling to access Database

➔ J2EE INTRODUCTION

- What is J2EE
- J2EE Technologies

J2EE COMPONENTS

- Web Components
- Business Components

J2EE CONTAINERS

- Container Types
- Container Services

➔ JAVA SERVLET

- Introduction to Servlet



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- Advantage of Servlet
- Servlet Life Cycle
- Request Dispatching
- Session Tracking
- Event Listener
- Filters

➔ **JAVA SERVER PAGES (JSP)**

- Introduction to JSP
- Servlet Vs. JSP
- JSP Architecture
- JSP Elements
- JSP implicit Objects
- Custom Tags

➔ **ENTERPRIZE JAVA BEAN (EJB)**

- Introduction
- Architecture
- Types of EJB

➔ **SESSION BEAN**

- Introduction
- Life Cycle of Session Bean
- Types of Session Bean
 - Stateless Session Bean
 - Life Cycle of Stateless Session Bean
 - Statefull Session Bean
 - Life Cycle of Statefull Session Bean

➔ **ENTITY BEAN**

- Introduction
- Life Cycle of Entity Bean
- Types of Entity Bean
 - Bean Managed Persistent Bean(BMP)
 - Container Managed Persistent Bean (CMP)



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➔ MESSAGE DRIVEN BEAN & JMS

- Messaging Overview
- Messaging Models
 - Point to Point Model
 - Topic Subscriber Model
- JMS implementation

➔ WEB SERVICES

- Conceptual Overview of Web Services
- SOAP
- WSDL
- UDDI

➔ UTILITIES

- My Eclipse 6.0
- ANT

➔ WEB SERVER

- Apache Tomcat

➔ APPLICATION SERVER

- Bea's WebLogic 8.1

OTHER TECHNOLOGIES

➔ STRUTS 1.1

➔ HIBERNATE 3.0



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LIVE PROJECT

Live project at Maxim Technologies which is based on Java technology with the help of J2SE for representing the core java concept and J2EE which represents the evolution of Sun Microsystems's Server side development is an essential part of developing and nurturing the skill for a FRESHER because it standardized the development and deployment of the kind of secure, portable, scalable and reliable application required by the world wide web development.

Now, MAXIM will nurture you with the technology for real market development. Here, you will practice the key module on the following chapter.

- What is Live Project?
- Project phases
- What is project Life Cycle?
- Software Development Life Cycle
- What is project Team?
- What does project Team do?
- Role and Responsibilities.

➤ FEATURES :

- ❖ 100% JOB ASSISTANCE
- ❖ STUDY METERIAL
- ❖ CD FOR REQUIRED SOFTWARE
- ❖ WELL EQUIPED LAB
- ❖ UNINTERRUPTED POWER BACK UP
- ❖ INDUSTRIAL ENVIRONMENT
- ❖ COURSE CERTIFICATE
- ❖ CONFIRMATION LETTER/TRAINING LETTER/PROJECT



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