

Indus – IT Training

Course: Java/J2EE Training Course Curriculum

Duration: Six Weekends -Approx. 60hrs / (Sat & Sun: 1.30pm – 5.30pm)

*****Core Java Programming *****

- Introduction to Java and language fundamentals
- Declaration and Access Control
- Operators and Assignments
- Flow control. Exception handling
- Object orientation, Overloading and Overriding, Constructors and Return types
- java. Lang.* -The Math class, String and Wrappers , String Tokenizer
- Collections
- Threads
- Java File I/O
- JDBC

***** JSP & Servlets *****

- MVC Architecture
- Integrating Eclipse with Tomcat web server
- Concept of Servlet , Servlet life cycle
- Request Response Architecture
- A Simple Hello World Servlet , Get Vs POST
- Using Servlet Config, Servlet Context, Request Dispatcher
- Posting HTML form and invoking Servlet
- Session Handling, session timeouts,
- Handling cookies
- Introduction to JSP, JSP life cycle
- How to use scriptlets, JSP action, use Bean tags in code
- Understanding JSP implicit objects.
- Exception handling, Session handling with example
- JSP Authentication, Roles etc.
- Project using Servlets and JSP

*****Introduction to Struts *****

- Objectives
- Review: MVC model
- what is Struts?
- Struts flow
- Creating a web application using struts and using Log4j and exploring the . application.

*****EJB *****

- Integrating Eclipse with BEA Web logic Application server
- Enterprise JavaBeans Communication
- EJB Details
- Session Beans
- Entity Bean
- Message Driven Bean

Location: 1033 Sterling Road, Ste. 204, Herndon-VA-20170. USA.
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(Intersection of Sterling Road & Elden Street in Herndon)

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*****The Details of Writing Beans *****

- EJB Development Overview
- The Enterprise Bean Class
- The Remote Interface
- The Home Interface
- Deployment Descriptors and EJB-JAR files

*****Java Message Service (JMS) *****

- The principles of messaging systems
- Features of the Java Messaging Service (JMS)
- Writing a message driven Bean
- Message Driven Bean Clients

*****Writing an EJB Client *****

- The steps needed to write an EJB client
- Calling Session bean from a client program
- Calling Entity bean from a client program
- Calling MDB from a client program

*****UML and Class Design *****

- Introduction to UML
- Basic class diagrams and UML

*****Introduction to ANT*****

- Creating Build script using ANT

*****XML*****

- Concept of XML
- Introduction to DTD and XML Schema
- Introduction to DOM, SAX with examples. Dom Vs. SAX comparison
- Introduction to JAXB with an example

*****Web Services, AJAX, Hibernate, Spring*****

- Overview of Web Services with an example
- Overview of AJAX with an example
- Overview of Hibernate and Spring with an examples.

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