

CETPA INFOTECH PVT. LTD.
CURRICULUM OF ADV. JAVA

DURATION: 4 WEEKS

❖ **DATABASE CONNECTIVITY**

- Concepts of JDBC
- Types Of JDBC Driver
- Connecting with Different Databases

❖ **COLLECTION FRAMEWORK**

- Introduction of Collection Framework
- Need of Collection
- Collection API (the classes and interfaces)
- The methods of Collection interface
- List Interface (the Array List, Vector, Linked List, and Stack classes)
- The Iterator, ListIterator, and Enumeration interfaces
- Set Interface (the HashSet, LinkedHashSet classes)
- Map Interface (the Hashtable, HashMap, LinkedHashMap, classes)
- The Comparable and Comparator interfaces
- The TreeMap and TreeSet classes
- How Collection Framework is used in industry (the real Project Development)

❖ **SERVLETS & JSP**

- Introduction of Servlet
- Servlet Implementation & Configuration
- Introduction of Webserver Like GlassFish, Tomcat, Weblogic
- Introduction to IDE(Integrated Development Environment) like: Eclipse, NetBeans
- Session Tracking (Cookie, Hidden form field, url rewriting)
 - Filter In Servlet
 - Listeners in Servlet
- Introduction of JSP
- JSP Tags(Directive,Declaration,Scriptlet,Expression tags)JSP Action tags(<jsp:useBean/>, <jsp:setProperty/>, <jsp:getProperty/> <jsp:include/>, <jsp:forward/>, etc.)

❖ **STRUTS 2.X**

- Introduction Of MVC Design Pattern
- Introduction of Struts2
- Struts2.x Architecture
- Introduction of Component of Struts 2 like: Action, Results & Interceptors
- Heart of Struts2.x i.e. Interceptor
- Object Graph Navigation Language(OGNL)
- Struts 2 Tags like:Presentation Tags
- Role Of ActionInvocation & ActionContext
- Data Manipulating on ValueStack
- Custom Interceptor & Results

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