

About Codefrux

While the current trends around the world are based on the internet, mobile and its applications, we try to make the most out of it. As for us, we are a well established IT professionals based in Bangalore, constantly coping up with the extensive advancement and adapting to new Technology.

You can get all the information about the Advanced Java in the training which covers the entire topic from the basic beginner level to the expert level. The goal of this training is to provide complete information to each and every student. In advance Java main difference is the basic level to expert levels in Java programming language.java is an object oriented language its main uses to create applications. In this you have to learn j2ee is to develop web applications and hibernate, spring is most commonly used Java libraries.

You can learn how to develop web based application and having a strong command on design application. It enables to construct enterprise application by using the bean and understanding how to fetch data effectively from a database using SQL.

What you will Learn In This Course

- Construct a Web Application using Servlets
- Construct a Web application using Java Server Pages
- Construct an enterprise application using Session Beans
- Construct an enterprise application using Entity Beans linked with Database
- Construct an asynchronous enterprise application using Message-Driven Beans
- Map java inheritance hierarchy with database tables using various mapping techniques.
- Persist different types of collections.
- Fetch data effectively from database using traditional SQL and Hibernate Query Language
- Use and create package and interfaces in a Java program

Who should take the course?

- Anyone who wants to learn Java
- People who want to produce the highest-quality, creative software
- People looking to go from absolute beginner to advanced Java expert

Servlet

1. Basics of Servlet

1. Servlet: What and Why?
2. Basics of Web
3. Servlet API
4. Servlet Interface
5. GenericServlet
6. HttpServlet
7. Servlet Life Cycle
8. Working with Apache Tomcat Server
9. Steps to create a servlet in Tomcat
10. How servlet works?
11. servlet in Myeclipse
12. servlet in Eclipse
13. servlet in Netbeans
14. Quiz
15. Summary
16. Hands on

2. Servlet Request

1. ServletRequest methods
2. Registration example with DB
3. Quiz
4. Summary
5. Hands on

3. Servlet Collaboration

1. RequestDispatcher sendRedirect
2. Quiz
3. Summary
4. Hands on

4. ServletConfig

1. ServletConfig methods
2. ServletConfig example
3. Quiz
4. Summary
5. Hands on

5. ServletContext

1. ServletContext methods

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2. ServletContext example
 3. Quiz
 4. Summary
 5. Hands on

6. Attribute

1. How to set, get and remove example?
2. Quiz
3. Summary
4. Hands on

7. Session Tracking

1. Cookies
2. Hidden Form Field
3. URL Rewriting
4. HttpSession
5. Quiz
6. Summary
7. Hands on

8. Event and Listener

1. Quiz
2. Summary
3. Hands on

9. Filter

1. Authentication Filter
2. FilterConfig
3. Useful examples
4. Quiz
5. Summary
6. Hands on

10. ServletInputStream and ServletOutputStream

11. Annotation Servlet

JSP

12. Basics of JSP

1. Life cycle of JSP
2. JSP API
3. JSP in Eclipse and other IDE's

4. Quiz
5. Summary
6. Hands on

13. Scripting elements

1. scriptlet tag
2. expression tag
3. declaration tag
4. Quiz
5. Summary
6. Hands on

14.9 Implicit Objects

1. out
2. request
3. response
4. config
5. application
6. session
7. pageContext
8. page
9. exception
10. Quiz
11. Summary
12. Hands on

15. Directive Elements

1. page directive
2. include directive
3. taglib directive
4. Quiz
5. Summary
6. Hands on

Exception Handling

16. Action Elements

1. jsp:forward
2. jsp:include
3. Bean class
4. jsp:useBean
5. jsp:setProperty & jsp:getProperty
6. Displaying applet in JSP
7. Quiz

8. Summary
9. Hands on

17. MVC in JSP

18. JSTL

19. Custom tags

1. Custom Tag : What and Why?
2. Custom Tag API?
3. Custom Tag Example
4. Attributes
5. Iteration
6. Custom URI
7. Quiz
8. Summary
9. Hands on

JavaMail API

20. JavaMail API

1. Sending Email
2. Sending email through Gmail server
3. Receiving Email
4. Sending HTML content
5. Quiz
6. Summary
7. Hands on

Design Pattern

21. Design Pattern

1. Singleton
2. DAO
3. DTO
4. MVC
5. Front Controller
6. Factory Method. etc.
7. Quiz
8. Summary
9. Hands on

JUnit

22. JUnit

1. JUnit: What and Why?
2. Types of Testing
3. Annotations used in JUnit
4. Assert class
5. Test Cases
6. Quiz
7. Summary
8. Hands on

Maven

23. Maven

1. Maven: What and Why?
2. Ant Vs Maven
3. How to install Maven?
4. Maven Repository
5. Understanding pom.xml
6. Maven Example
7. Maven Web App Example
8. Maven using Eclipse
9. Quiz
10. Summary
11. Hands on

Struts 2

24. Basics of Struts2

1. Struts : What and Why?
2. Downloaded from: Recruitmenresult.com
3. Model1 vs Model2
4. Struts2 Features
5. Steps to create Struts2 application
6. Understanding Action class
7. Understanding struts.xml file
8. Struts2 in Eclipse IDE
9. Struts2 in Myeclipse IDE
10. Quiz
11. Summary
12. Hands on

25. Core Components

1. Interceptors
2. ValueStack
3. ActionContext
4. ActionInvocation
5. OGNL
6. Quiz
7. Summary
8. Hands on

26. Basics of Struts2

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3. Model1 vs Model2
4. Struts2 Features
5. Steps to create Struts2 application
6. Understanding Action class
7. Understanding struts.xml file
8. Struts2 in Eclipse IDE
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11. Summary
12. Hands on

27. Core Components

1. Interceptors
2. ValueStack
3. ActionContext
4. ActionInvocation
5. OGNL
6. Quiz
7. Summary
8. Hands on

Struts 2 Architecture

28. Struts2 Action

1. Action Interface
2. ActionSupport class
3. Quiz
4. Summary
5. Hands on

1. Struts2 Configuration

6. multi configuration
7. multi namespace
8. Quiz
9. Summary
10. Hands on

2. Interceptors

1. Custom Interceptor : Life Cycle of Interceptor
2. Interceptor
3. params interceptor
4. execAndWait interceptor
5. prepare interceptor
6. modelDriven interceptor
7. exception interceptor
8. fileUpload interceptor
9. Quiz
10. Summary
11. Hands on

3. Struts 2 Validation

1. Custom Validation : workflow interceptor
2. Input Validation : validation interceptor
3. Ajax Validation : jsonValidation Interceptor
4. Quiz
5. Summary
6. Hands on

4. Aware Interfaces

7. ServletActionContext
8. SessionAware
9. Login and Logout Application
10. ServletContextAware
11. Quiz
12. Summary
13. Hands on

5. Struts2 with I18N

6. Zero Configuration

1. By convention
2. By annotation
3. Quiz
4. Summary
5. Hands on

7. Struts2 with Tiles2

8. Hibernate with Struts2

9. Spring with Struts2

Working with IDE

10. IDE

1. Eclipse IDE
2. Netbeans IDE
3. Myeclipse IDE
4. Quiz
5. Summary
6. Hands on

Working with Servers

11. Servers

1. Apache Tomcat
2. Glassfish Server
3. JBoss Server
4. Weblogic Server
5. Quiz
6. Summary
7. Hands on

EJB 3

12. Introduction to JavaEE

1. Introduction to JavaEE
2. The Need for JavaEE.
3. Overview on the JavaEE Architecture
4. Downloaded from: Recruitmenresult.com
5. 1 tier
6. 2 tier
7. 3 tier
8. N tier
9. JavaEE Key Standards
10. Quiz
11. Summary
12. Hands on

13. Introduction to EJB3

1. The EJB Model
2. Key Services of the Application Server
3. Quiz
4. Summary
5. Hands on

14. Developing Session Beans

1. Stateless Session Beans
2. Stateful Session Beans
3. Packaging
4. Writing Clients
5. Quiz
6. Summary
7. Hands on

15. Using Dependency Injection

1. No More JNDI
2. Injection of EJBContext
3. Quiz
4. Summary
5. Hands on

16. JMS

1. JMS Overview
2. JMS Messaging Domains
3. Example of JMS using Queue
4. Example of JMS using Topic
5. Quiz
6. Summary
7. Hands on

17. Message Driven Beans

18. Persistence Introduction to JPA

1. Object Relational Mapping
2. Mapping configurations
3. Embedded Objects
4. EJBQL
5. Quiz
6. Summary
7. Hands on

Web Technology

19. HTML 5

1. Introduction to HTML
2. HTML Tags
3. Creating Forms
4. Creating tables
5. Managing home page
6. Quiz
7. Summary
8. Hands on

20. CSS

1. Introduction to CSS
2. Three ways to use CSS
3. CSS Properties
4. Designing website
5. Working with Templates
6. Quiz
7. Summary
8. Hands on

21. Javascript

1. Introduction to Javascript
2. Three ways to use Javascript
3. Working with events
4. Client-side Validation
5. Quiz
6. Summary
7. Hands on

22. JQuery

1. Introduction to JQuery
2. Validation using JQuery
3. JQuery Forms
4. JQuery Examples
5. Quiz
6. Summary
7. Hands on

23. AJAX

1. Introduction to AJAX
2. Servlet and JSP with AJAX
3. Interacting with database
4. Quiz
5. Summary
6. Hands on

Project Work

After course completion, students will be assigned to work on live project to polish the technology skills you have acquired with us.