



Java J2EE Course

Structure

The focus of the course is to impart practical oriented training in Java / J2EE technologies to the attendees.

We emphasize on interactive sessions where students, led by the trainers having many years of practical experience as consultants in the industry will learn the topics by taking part in the sessions in a forum like discussions about the topic of the day rather than the trainer delivering a lecture to a bored audience as is the order of the day for most training classes. Classes are incremental which means each class takes off from where it was left from the previous day.

Attending all classes is strongly advised.

There will be tests at the end of each unit.

Assignments are given during the class, students are expected to work on them and send their answers to the training team who will assess and provide feedback.

Duration :

Approximately 60 hrs, class time. About 120 hrs of study expected by students.

Timings :

All week nights except Tuesdays, 7 PM to 8:30 PM EST (to be finalized by attendees in the introduction session).

Start Date : Nov 1 2011

Material:

Course material is provided in PDF and word documents for future reference.

Format :

Classes are delivered online using Gotomeeting software.

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Lab Access:

A server with preloaded software for the students to work on will be provided during the course duration and one month after it is completed is provided free of cost. Requests for additional access will be provided on a case to case to basis.

Placement Assistance:

We are a placements agency and specialize in placing candidates in projects. We monitor the progress of trainees in the classes and offer contract based projects to trainees who do well in classes. We help them in preparation of resumes. We conduct mock interviews for them to help prepare for the actual client interviews down the line.

Access to future classes :

Students who feel they could not get the benefit of the classes to the fullest can attend future classes after they finish their current classes with a nominal cost. Access will be provided on a case to case basis.

Certifications: Assistance to prepare for the certification exams is offered during the classes and also after the classes are completed. Guidance and advice on the best certification for the individual is offered and links to registration and scheduling will be provided.

Expectations from participants :

Attendance : We expect a 100 % attendance. This helps the trainer to focus on classes rather than spending time with students who miss classes.

Certification: Students are advised to register for Oracle Certified Java Programmer Certification and Oracle Certified Web component Developer Certifications. OCJP can be completed while still taking part in the classes while OCWCD can be taken up immediately after the completion of the course. Students are expected to schedule them with not much gap after they complete the course. Certifications add value to the resume and give confidence to the candidate to face the client interviews. They also motivate the students to cover all the objectives of the certification,

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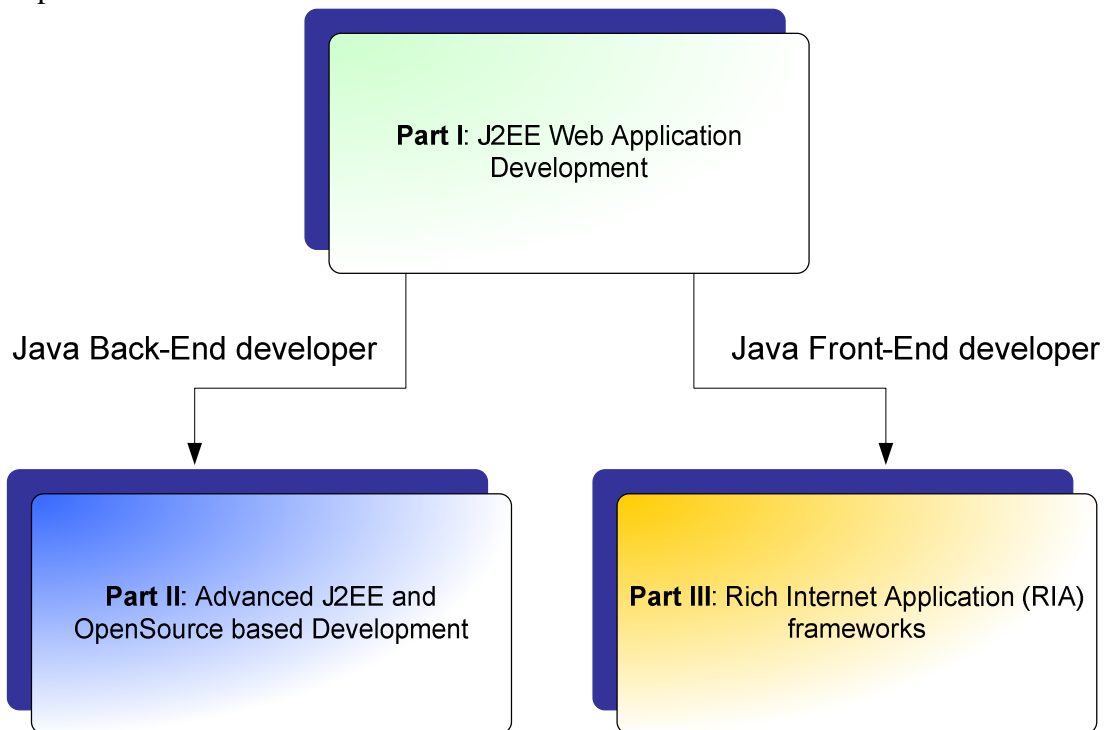
some of which may be covered during the course.

Assignments: Completion of assignments given in the class in a timely manner is very important. This gives the students an opportunity to verify their understanding of the topics covered during the classes. They can also be creative and offer their own solutions and get feedback from the evaluators who are experienced in the industry and offer constructive feedback. Completion of assignments also provides us to identify students who are ready for placements.

Etiquette: We will offer forums for discussions but advise the students to not be critical or argumentative with other students. Proper online etiquette is offered and expected.

Dress code: Formal dress code is mandatory. Students are monitored by surveillance cameras and those who violate a formal dress code will be suspended from classes immediately and will be imprisoned indefinitely in jails closest to their respective locations.

There are three different training programs for Java developers. Developer can pick and choose a program or a specific topic in a program. Following diagram helps students to choose appropriate specialization in J2EE application development. Part-II and Part-III classes will be run parallel.



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Part – I: J2EE Web Application Development

- **Course Abstract:** This course covers the foundation of the Java language, those aspects of the language that will be used in every Java program. The topics covered in this course coincide with the topics on Sun Microsystem's Java Programmer Certification Exam. The course is intensive, with an even mix of lecture and hand-on labs.

This course also provides Internet/Intranet (Application) Developers with an overview of Java architecture and components. Topics include; Java Application Basics, Java Architecture, Web Applications, Data Access using JDBC and XML in Java.

- **Prerequisites:** Basic computer skills and programming language exposure.

- **Contents**

1. Java Programming Language (JDK1.6)
2. Development tools and servers for Java/J2EE applications
 - a. Application Servers: WebSphere, WebLogic & Glassfish
 - b. IDE: NetBeans and Eclipse
3. SUN Certified Java Programmer (S.C.J.P) certification program
4. Core Web Technologies in J2EE
 - a. Servlet, JSP, JSTL and JSF
5. Data access using Java
 - a. SQL basics
 - b. JDBC

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Part – II: Advanced J2EE and OpenSource based Development

- **Course Abstract:** This course provides participants with in-depth coverage and hands-on practical exercises using the features of popular J2EE API and OpenSource frameworks like Struts, Spring and Hibernate.

Students will learn the various Struts tag libraries as well as the components that provide the architectural framework. Upon completion of this course students will build a complete Struts-based web application. Hands-on labs reinforce the lecture topics while providing practical experience.

Participants will begin by learning how to configure the Spring environment, wire up beans, and implement the powerful inversion of control (IOC) features that have made Spring so popular. Participants will also learn to make use of Spring's aspect-oriented programming feature set, first by learning AOP basics and then applying those concepts within a Spring-enabled environment. The built-in Spring MVC architecture will also be explored.

Participants will learn how to map Java objects to relational data while exploring the transaction and persistence management features built into the Hibernate framework. Participants will examine the built-in and customizable Hibernate mapping types as well as the Hibernate Query Language (HQL), an object-oriented SQL-like querying language.

Upon completion of this course, participants will have developed a complete application using Struts, EJB3.0, WebServices, Spring and Hibernate-based enterprise APIs. Hands-on labs reinforce the lecture topics while providing practical experience.

- **Prerequisites:** Part-I

- **Contents :**

1. Struts Framework
2. Advanced J2EE technologies

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- EJB3.0
- JPA
- Java Server Faces (JSF)

3. Spring Framework

4. ORM Framework

- Hibernate (in detail)
- IBatis

5. SOA and WebServices

- SOAP based WebServices
- RESTful WebServices

Part – III: Rich Internet Application (RIA) frameworks

Course Abstract: This course provides participants with advanced coverage and hands-on exercises using the latest and most common tools, frameworks, and design patterns for building Web 2.0 applications.

This course serves as follow-on to Part-I. Continuing in the exploration of technologies promoting collaboration, content-exchange, and rich Internet application development, this course discusses more advanced JavaScript techniques, microformats, REST-based architectures, and other Web 2.0 related topics.

Specific topics designed to help enrich and improve your Web 2.0 applications include: AJAX cross-domain requests, protecting against cross-site scripting and data injection attacks, keyboard and mouse event detection with JavaScript, creating and processing syndication feeds, DOJO API, JSON messaging structure and GWT.

- **Prerequisites:** Part-I
- **Major topics:**

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1. Ajax based application development
2. JSON Message format – API (javascript & java)
3. DOJO Framework
4. ExtJs Framework
5. Google Web Toolkit (GWT)

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