



THE CRIMSON ADVANTAGE

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Enterprise Java Web Application Development – Course Plan

Compiled By

Crimson Computing Solutions

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No of Sessions: 8

Duration : 2*8 = 16 Hours Of Instruction

About the Trainers

Praveen George is the Co-Founder and Principal Consultant for Crimson Computing Solutions. He is also a social media enthusiast and an author on topics including Enterprise Application Development, Mobile Enablement etc. He co founded mobchannel.com the Social Solutions Hub which became a finalist in the 2010 PayPal Development contest.

Nicy Chacko is a Sun Certified Java Programmer and Oracle Certified SQL Developer. She specializes in developing interactive voice response systems. She co founded mobchannel.com the Social Solutions Hub which became a finalist in the 2010 PayPal Development contest .She previously worked with Tata Consulting Services.

Course Description

This course is intended to provide a quick start to JAVA Enterprise Edition, J2EE and will enable one to gain a solid understanding of basic concepts and applications of the tools. The course is focused on practical training and hands on experience through interactive webex based sessions. Eclipse, Ant, Hibernate, Struts, Spring and developing Java on Linux and OSX will be explained. Sample code and configurations would be provided as part of the training and users would be given full access to the source code behind mobchannel.com a social solutions portal.

Reference Text Book

Fruitful Enterprise Java Application Development by Praveen George & Nicy Chacko

ISBN 978-0-615-32583-5

Book purchases can be made online from

<http://www.crimsoncomputing.com/university/books/enterpriseapp/>

Prerequisites:

Exposure to Computer Science or related fields. Familiarity with Java Programming. Basic understanding of html tags and form controls.



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1. Introduction to Enterprise Computing.

- Who this course is intended for
- What topics are covered in this course
- Software required to use this course effectively
- Downloading Source Code referred in this course
- Anonymous download
- Developer Download
- Environment Setup
- Setting up project home
- Setting up the db
- Test the persistence manager project
- Build mobchannelWEB
- Building mobchannelEAR.ear
- The master make project
- The Road Ahead
- Customer Support
- Feed Back And Recommendations

2. Setting up the project development and build environment

- Creating a new project using the eclipse IDE
- Creating a New Project
- Setting up the Debugging Environment
- Setting up local debugging
- Setting up remote debugging
- Installing New Plugins in Eclipse IDE
- Managing Version Control and Team Collaborations
- Using the eclipse IDE to manage project versioning
- Uploading the project to a version control system
- Importing existing projects.
- Setting up a build environment
- Using Ant as a Build Tool
- Sample Ant Build File
- Configuring the ant build script to do code duplication analysis and style checks
- Using Maven for managing builds
- Setting up a test environment for unit tests and regression testing
- The Test Case
- References and further reading



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3 Managing Data Persistence in Enterprise Applications

- Managing Persistence With JDBC
- JPA and Hibernate ORM
- The persistence.xml and the persistence unit
- Entity Manager
- Named Queries
- Managing Relationships
- Managing Persistence with Spring JPA Adapter
- References and Further Reading

4. Developing for the Web Tier

- Building a Simple Web Application
- Templating view elements
- MVC Frameworks
- Developing MVC Applications using struts
- Developing Custom Tags
- References and Further Reading