Programming Essentials for IBM WebSphere Commerce v7 Customization

Course Summary

Description

In-depth lectures cover the skills and knowledge students need to customize an IBM WebSphere Commerce v7 site. Lecture topics include an introduction to the integrated development environment for WebSphere Commerce, which is built upon Rational Application Developer v7. From that starting point, students develop and configure storefronts, both with and without Web 2.0 capabilities enabled. In addition, students learn how to build custom business logic and data handling through the command framework, business object document (BOD) processing framework, Enterprise JavaBeans (EJBs), and the data service layer.

Students are also introduced to many of the new features provided by WebSphere Commerce v7, including how to develop for the IBM Management Center with related activities like customizing precision marketing, promotions, Mobile Commerce, and Social Commerce. To complete the experience, students learn the basics of integrating WebSphere Commerce with other systems in a service-oriented architecture (SOA), including payments and Web services.

Hands-on lab exercises provided throughout the course reinforce lecture content and let students gain practical experience designing and implementing customized WebSphere Commerce solutions. Students practice their newly developed WebSphere Commerce skills by performing tasks such as creating new views and commands, extending WebSphere Commerce capabilities by building custom projects in the persistence layer, deploying Web services, and developing new features for the IBM Management Center.

Objectives

At the end of this course, students will be able to:

- Describe WebSphere Commerce architecture and programming model concepts
- Implement the processes required to customize WebSphere Commerce v7 using a development environment based on Rational Application Developer v7
- Customize storefront JavaServer Page (JSP) pages
- Employ state-of-the-art storefront pages for WebSphere Commerce with Web 2.0 technology
- Extend the persistence layer by creating new Enterprise JavaBeans (EJBs) to cooperate with the WebSphere Commerce subsystems
- Customize store business logic through the creation of controller commands and task commands
- Describe common subsystem commands and data beans
- Manipulate data handling through the WebSphere Commerce v7 data service layer
- Utilize the IBM Management Center for creating marketing and promotional scenarios
- Perform basic customization of IBM Management Center by editing OpenLaszlo files
- Implement exception handling
- Implement Web services using WebSphere Commerce v7
- Implement Mobile Commerce and Social Commerce into a store solution
- Apply payment rules, test tools, and best practices in the creation of a WebSphere

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Course Summary (cont'd)

Topics

- Course introduction
- WebSphere Commerce architecture
- Exercise: Introduction to the WebSphere Commerce development environment
- Developing and customizing storefront pages
- Exercise: Customizing storefront pages
- Developing and customizing store business logic
- Exercise: Customizing store business logic
- Developing and customizing the persistence layer
- Exercise: Creating an Enterprise JavaBean in WebSphere Commerce
- Developing and customizing the Web 2.0 presentation layer
- Exercise: Customizing a Web 2.0 storefront
- BOD command processing and the data service layer
- Exercise: BOD command processing and the data service layer
- IBM Management Center, precision marketing, and promotions
- Exercise: Customizing the IBM Management Center for WebSphere Commerce
- Web services and messaging
- Exercise: Implementing a Web service in WebSphere Commerce
- Mobile Commerce and Social Commerce
- Payments
- Best practices
- IBM Gift Center for WebSphere Commerce
- Exercise: Customizing IBM Gift Center
- IBM Sales Center for WebSphere Commerce
- Exercise: Customizing IBM Sales Center
- Course summary

Audience

This intermediate course is designed for Java or Java 2 Platform, Enterprise Edition (Java EE) developers who have experience in JavaScript, Hypertext Markup Language (HTML), Extensible Markup Language (XML), and SQL. Students should also be familiar with the IBM WebSphere Commerce v7 solution architecture and programming environment

Prerequisites

Before taking this course, students should possess the following:

- Java or Java EE application development skills
- JSP development and deployment skills
- Java servlet development and deployment skills
- JavaServer Pages Standard Tag Library (JSTL) skills
- Hypertext Markup Language (HTML) skills
- SQL skills
- Extensible Markup Language (XML) skills
- Knowledge of Rational Application Developer v7
- A thorough knowledge of IBM WebSphere Commerce v7 architecture, business models, data models, tools, and functionality as provided in course WebSphere Commerce v7 Foundation or a strong knowledge of WebSphere Commerce V6

Duration

Five days

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