Mastering Enterprise Integration with the Spring Framework

Course Summary

Description

This is an in-depth course on how to leverage the spring framework in enterprise integration projects. The covers common enterprise integration techniques and shows how these techniques are implemented using spring. In particular students will learn how to use spring to implement messaging based integration, web services based integration, batch processing. The course assumes

Topics

- Enterprise integration styles
- Enterprise integration using Spring Messaging
- Enterprise integration using Spring Web Services
- Enterprise integration using Spring Batch
- Enterprise integration best practices

Audience

This course is designed for developers and architects who want to learn how to use spring to solve enterprise integration problems.

Prerequisites

Knowledge of spring dependency injection, Spring AOP, spring transactions, spring data access. Students who lack introductory spring knowledge can take a spring course first.

Duration

Five days

Due to the nature of this material, this document refers to numerous hardware and software products by their trade names. References to other companies and their products are for informational purposes only, and all trademarks are the properties of their respective companies. It is not the intent of ProTech Professional Technical Services, Inc. to use any of these names generically

Mastering Enterprise Integration with the Spring Framework

Course Outline

I. Core Spring Review (Optional)

A. This optional module can be used to review core spring concepts that the rest of the course depends on this.

B. This module is recommend for students who have attended spring training but have not had a lot of experience using spring.

II. Enterprise Integration Styles

A. This module covers the four most common integration styles: batch file, shared database, messaging, and remote API.

B. The purpose of the module is to provide students with a foundation to tackle the spring specific implementation of these styles of integration.

III. Spring Messaging

A. This module covers the details of how Spring messaging can be used to implement messaging based integration solutions.

B. Students will learn how to send and receive messages in spring, and common patterns when using messaging.

C. Distributed transactions will also be covered in this section.

IV. Spring Web Services

A. This module covers the details of how Spring web services can be used to implement messaging solutions.

B. The focus is on the how to quickly build light weight REST base web services using the spring MVC rest support and data binding.

V. Spring Batch

A. This module introduces students to the spring batch project.

B. It shows them how to best use spring batch to solve integration problems that call for a spring solution.

VI. Enterprise Integration Best Practices

A. This module covers integration best practices, the focus of the module is on the decision making process used to determine which integration style to implement.

B. Students will have an opportunity to discuss the various integration issues that they are currently dealing with ways of solving these issues using the materials covered in the class.

Due to the nature of this material, this document refers to numerous hardware and software products by their trade names. References to other companies and their products are for informational purposes only, and all trademarks are the properties of their respective companies. It is not the intent of ProTech Professional Technical Services, Inc. to use any of these names generically