Spring Core

Lesson 04 Lab 1: Flooring Mastery as a Spring Project

SOFTWARE GUILD

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Overview

In this lab, each of you will take a copy of your Flooring Mastery application and refactor it into a Maven/Spring application. You must use Spring DI to manage the dependencies between the Controller and the GUI and between the Controller and the DAO (this is similar to the previous lab). You will also implement an Audit Aspect for the application that records Add, Edit, and Delete activity to a log file on a per-day basis.

Requirements

- Collaboration is permitted (and encouraged) on this project, but each student is responsible for submitting his/her own version of the lab.

- This lab will be contained in a new NetBeans Maven project called FlooringMasterySpring.

- The dependencies between the Controller and the GUI and the Controller and the all of the DAOs must be managed by Spring.

- All JUnit tests must be retrofitted to use Spring to manage dependencies, where appropriate.

- This application must include two aspects:

  - **Audit Aspect:** This aspect must append an entry to a file each time an Order is created, updated, or deleted in the system to create a running log of system activity. Each entry should include a date and time.

  - **Timing Aspect:** This aspect must log (to the Console) how long it takes for your application to do the following:

    - Read the Products from file

    - Read the sales tax entries from file

    - Read the orders for a given date from file

    - Write the orders for a given date to file