# **Spring Boot Techniques**

#### Overview

In this lab you'll enhances your "online retailer" application from the previous lab, to make use of application properties.

## IntelliJ starter project

If you're happy to continue where you left off in the previous lab, use the following project:

• student\student-online-retailer

If you'd prefer a fresh start, use the solution project from the previous lab instead:

• solutions\solution-configuration-classes

## IntelliJ solution project

The solution project for this lab is located here:

• solutions\solution-spring-boot-techniques

#### Roadmap

There are 4 exercises in this lab, of which the last exercise is "if time permits". Here is a brief summary of the tasks you will perform in each exercise; more detailed instructions follow later:

- 1. Adding properties in application.properties
- 2. Adding properties in application.yml
- 3. Adding some profile-specific properties
- 4. (If time permits) Using Spring Actuator

## **Exercise 1: Adding properties in application.properties**

Define and use some simple properties in application.properties. For example:

- Define a property named **contactEmail**, to hold the company's email address.
- Inject this value into your CartServiceImpl class.
- Write some client code to verify **CartServiceImpl** picks up the value correctly.

### **Exercise 2: Adding properties in application.yml**

Define and use some complex properties in **application.yml**. Here are the properties we'd like you to define:

Name of property	Value	Description
onlineRetailer:salesTaxRate	0.20	Sales tax rate.
onlineRetailer:deliveryCharge:normal	2.50	Delivery charge (GBP) on normal deliveries.
onlineRetailer:deliveryCharge:threshold	3000	Threshold cart value (GBP), for free delivery.

Inject these values into your CartServiceImpl class. Then write some client code to verify CartServiceImpl picks up the values correctly.

#### Exercise 3: Adding some profile-specific properties

Define some properties that have different values depending on the current profile. For example:

Name of property	Value if "development" profile	Value if "production" profile
resources.db	H2	Oracle
resources.logs	C:\temp\logs\	//PROD_SERVER/logs/
resources.secure	false	true

Define a bean class named **ResourcesBean** and inject these properties into it. Then run the application, first in "development" profile and then in "production" profile, and verify the correct values are injected into the **ResourcesBean**.

## **Exercise 4 (If time permits): Using Spring Actuator**

Add support for Spring Actuator in your application and explore the information made available via Spring Actuator (e.g., health, metrics, beans, etc.).