

## Module 17: Spring and Hibernate

### Exercise 17.1 – Spring Support

#### *The Setup:*

The goal of this exercise is to practice integrating Spring and Hibernate. The exercise will ask you to use combined Spring and Hibernate configuration, and use Spring's Transaction Support.

Start this exercise by copying the **exercise16\_1** project and to **exercise17\_1** and add the **Spring context dependency** to it and also add the following additional spring dependencies:

```
<dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-tx</artifactId>
  <version>4.0.2.RELEASE</version>
</dependency>
<dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-orm</artifactId>
  <version>4.0.2.RELEASE</version>
</dependency>
```

#### *The Exercise:*

Although the code already uses Hibernate, it does not yet use Spring.

- a) Change the project to start using Spring, and configure Hibernate through Spring's combined configuration possibilities (you can remove HibernateUtil and the hibernate.cfg.xml).
- b) Add Spring Declarative Transaction Demarcation to the service layer, removing the programmatic transaction demarcation used before.
- c) Also add declarative transaction demarcation to the data access objects. Although it doesn't change much in this application, it is good practice to specify transactional requirements for DAO objects.

