

Exercise 4 A

The Setup

Create a copy of your solution to lab 3 and call it exercise8.3. Remember to also change the project name inside the pom.xml's `<artifactId>` and `<name>` tags.

In addition to the dependencies for exercise 8.3 add the following for hibernate validator:

```
<dependency>
  <groupId>org.hibernate</groupId>
  <artifactId>hibernate-validator</artifactId>
  <version>5.1.2.Final</version>
</dependency>
```

The Application

The application will be the book application you've created as a solution to exercise 8.1.

The Exercise

Add validation to the book class. Update the book controller to do the validation. and update your addBook.html to addBook.jsp so that you can use the spring form tags to properly show the errors.

You want to add validation annotations onto the book class to make sure that the title and the author are not blank, the price is greater than zero, and the ISBN matches the following pattern:

`\d{3}-\d{10}`

Optional Additional Exercise:

- Add a published date to the book class, and validate that it's in the `@Past`

Exercise 4 B

The Setup

Create a Web MVC project using Spring Boot and include Validation (JSR-303)

Include in the pom the following dependency to for JSP rendering:

```
<dependency>
  <groupId>org.apache.tomcat.embed</groupId>
  <artifactId>tomcat-embed-jasper</artifactId>
  <scope>provided</scope>
</dependency>
```

Create a **/src/main/webapp/WEB-INF/views** folder for your views.

Set the following properties on the **resource/application.properties** file

```
spring.mvc.view.prefix=/WEB-INF/views/
spring.mvc.view.suffix=.jsp
```

The Application

The business logic of the application will be the book application you've worked on Lab 4A exercise 8.3.

The Exercise

Add the classes for controller, services, data access objects and the view files in the corresponding locations.

Run your Spring Boot application, it should work exactly the same as in your previous assignment.