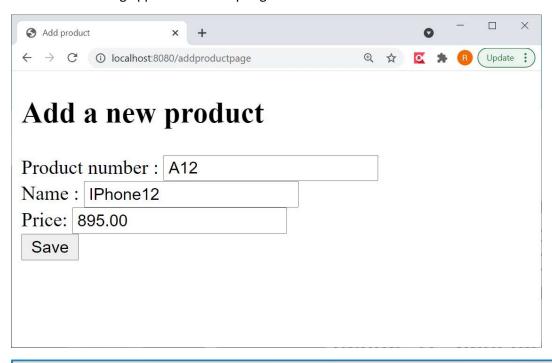# Lab 2

Part 1:

Write the following application with SpringMVC:

The application lets you add products to the list of products, and you can also remove products from the list. Make sure you apply the **PRG pattern** in your application.

Part 2:

Add the following validation to the add products page:

Product number cannot be empty and should be between 2 and 5 characters
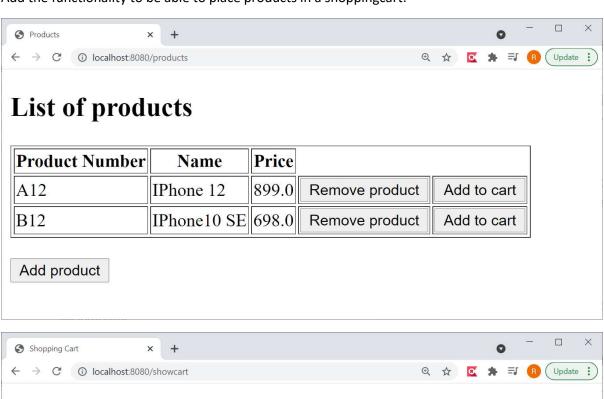
Product name cannot be empty and should be between 2 and 20 characters
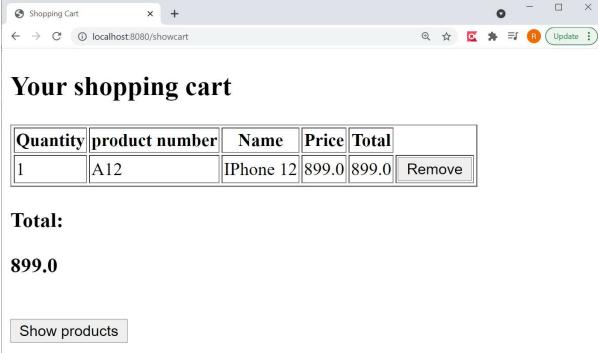
For validation you need the following dependency in the POM file:
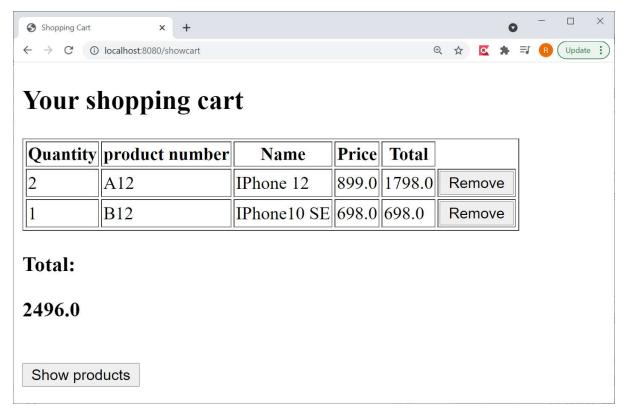
```xml
<dependency>
    <groupId>org.hibernate</groupId>
    <artifactId>hibernate-validator</artifactId>
    <version>6.0.10.Final</version>
</dependency>
```

Part 3:

Add the functionality to be able to place products in a shoppingcart:

If you add a product to the shoppingcart that is already in the shoppingcart then the quantity should be increased with 1. If you remove a product from the shoppingcart with a quantity bigger than 1, then the quantity should be decreased with 1.

What to hand in?

1. Zip the project into one zip file
2. Write a readme.txt file with the following content:
   a) Status of the lab. Describe here if you finished all parts of the lab or not. If you did not finish the lab, describe which parts are finished, and which parts not. Describe clearly why some parts are not finished.
   b) Write the following statement and sign with your name:

   I hereby declare that this submission is my own original work and to the best of my knowledge it contains no materials previously published or written by another person. I am aware that submitting solutions that are not my own work will result in an NC of the course.

   [your name as signature]

Submit these 2 files in sakai as your solution of the lab.