Lab 2

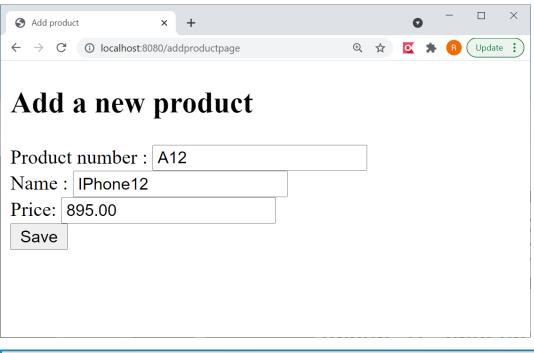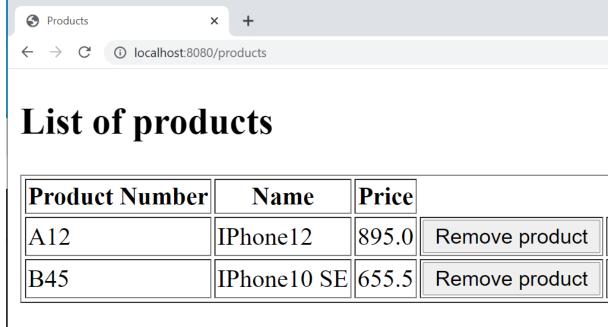**Part 1:**

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
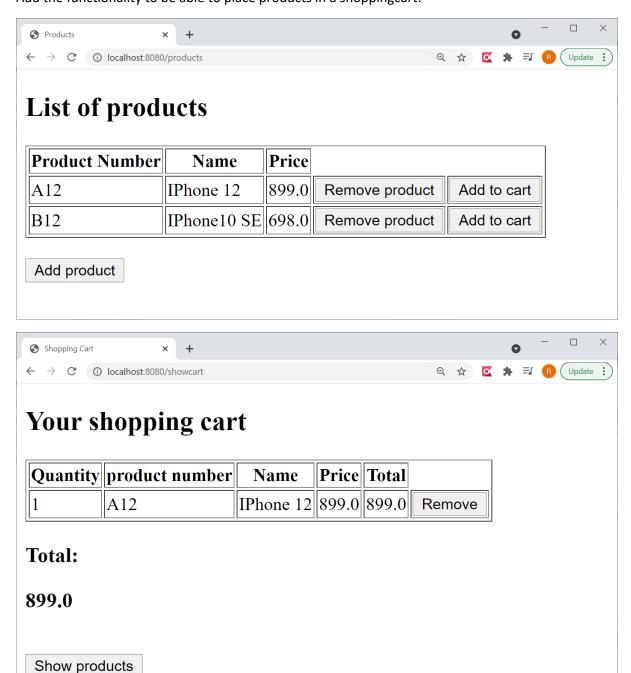
Product name cannot be empty and should be between 2 and 20 characters

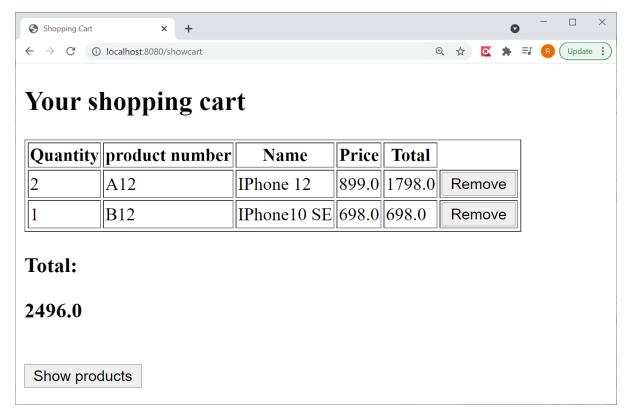For validation you need the following dependency in the POM file:

```
<dependency>
    <groupId>org.hibernate</groupId>
    <artifactId>hibernate-validator</artifactId>
    <version>8.0.1.Final</version>
</dependency>
```

Part 3:

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

List of products

Product Number	Name	Price		
A12	IPhone 12	899.0	Remove product	Add to cart
B12	IPhone10 SE	698.0	Remove product	Add to cart

Add product

Your shopping cart

Quantity	product number	Name	Price	Total	
1	A12	IPhone 12	899.0	899.0	Remove

Total:

899.0

Show products

Your shopping cart

Quantity	product number	Name	Price	Total	
2	A12	IPhone 12	899.0	1798.0	Remove
1	B12	IPhone10 SE	698.0	698.0	Remove

Total:

2496.0

Show products

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 the following statement in a file readme.txt 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. I am aware that I am not allowed to share solutions with other students. I am aware that if I submit only parts of this lab that points will be subtracted. I am aware that if my lab submission does not contain this readme.txt file that I do not get points for this lab.
[your name as signature]

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