

SHOPPING CART **PROJECT**

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Introduction

Online Shopping is considered a very helpful way of buying products through the internet. People shop online and buy products from several brands and companies that they cannot find or are not available for purchase in local stores. This brings up a challenge to use technologies to device online shopping management! The insight is to make the online experience very similar to the manual experience.

Objective

- Add 5 or more items to shopping cart menu and assign prices for the items.
- Provide the total for selected items in the shopping cart page or provide the total as a alert message.
- Create a log file for the project

Live URL

<http://localhost:8080/shopping-cart-1.0.0.SNAPSHOT/shop>

Users of the System

Users

Functional Requirements

Users

1. Can view and browse through the items listed
2. Can add one or more items to the cart.
3. Can empty the cart

Non-Functional Requirements

1. 24 X 7 availability
2. Browser testing and support for IE, Mozilla Firefox and Chrome
3. Reports exportable in .XLS, .PDF

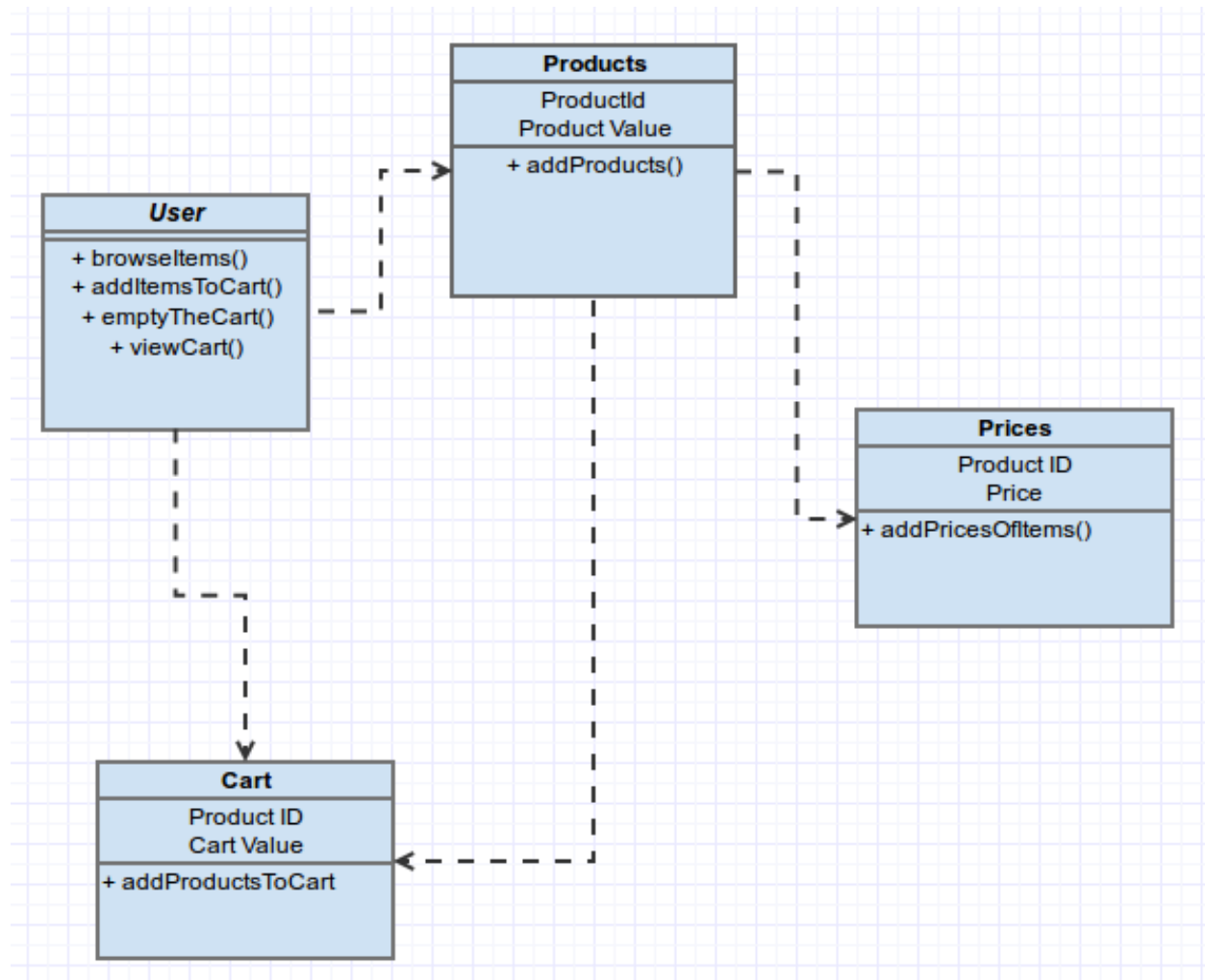
Front End and Back End

Front End: JSP, HTML, CSS

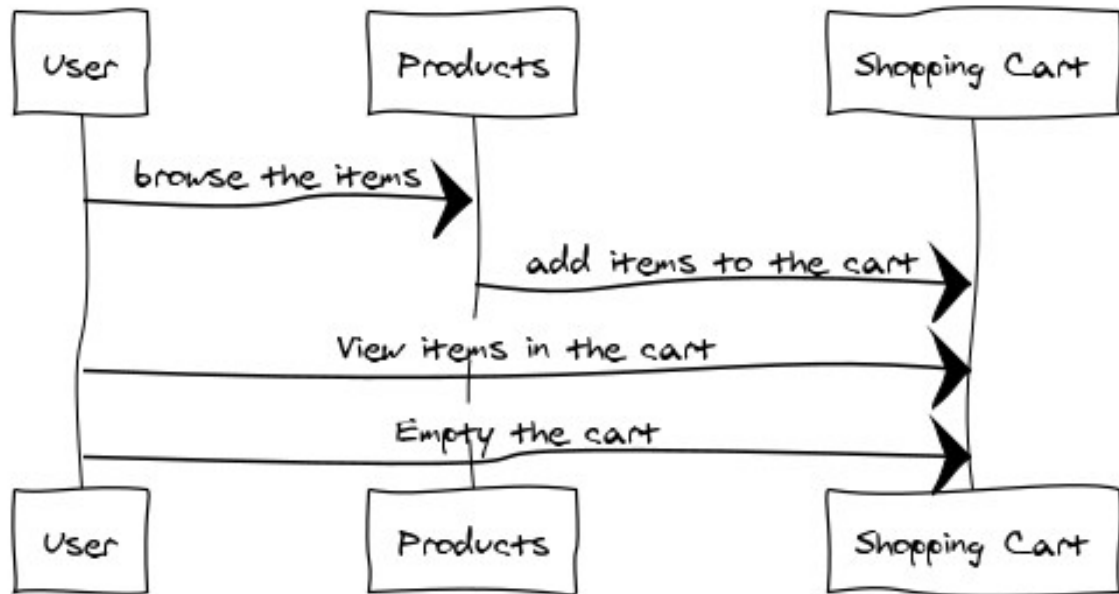
Software Requirements

- IDE Eclipse
- Tomcat Server 7.0
- Maven dependencies
- Loj4j. Jar

UML Diagram



Sequence Diagram



www.sequence-diagrams.com

Runtime environment used

- Operating System - Linux Ubuntu 15.04
- Mozilla Firefox - Version 44.0
- Java EE IDE for Web Developers. Version: Mars.1 Release (4.5.1)
- Java SDK - 1.7
- Tomcat Apache Server - Version 7.0

How to run this project

- Import the project on the Eclipse IDE
- Place the log4j.properties in Production/resources. Change the file path to your requirement.
 - I have ./log4j-application.log where log4j-application.log is the file name. Since I am using ubuntu, this file can be found in home/shannon/ (shannon is my home directory)
- Run as Maven Clean
- Run a Maven Build (Goals : clean install)
- You will see that shopping-cart-1.0.0.SNAPSHOT.war generated in target folder of the imported project.
- Copy it and paste it to Tomcat directory/webapps folder
- To start Tomcat I following the following steps
 - `sudo apache-tomcat-7.0.73/bin/startup.sh`

where is `apache-tomcat-7.0.73` is the directory where tomcat is installed.

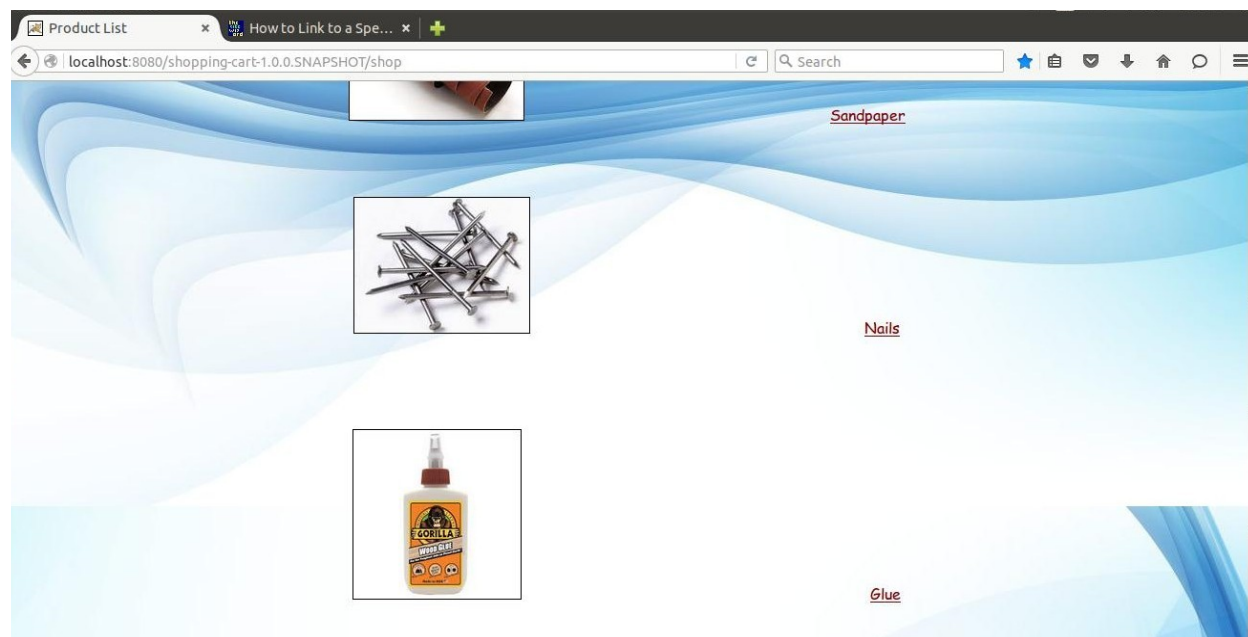
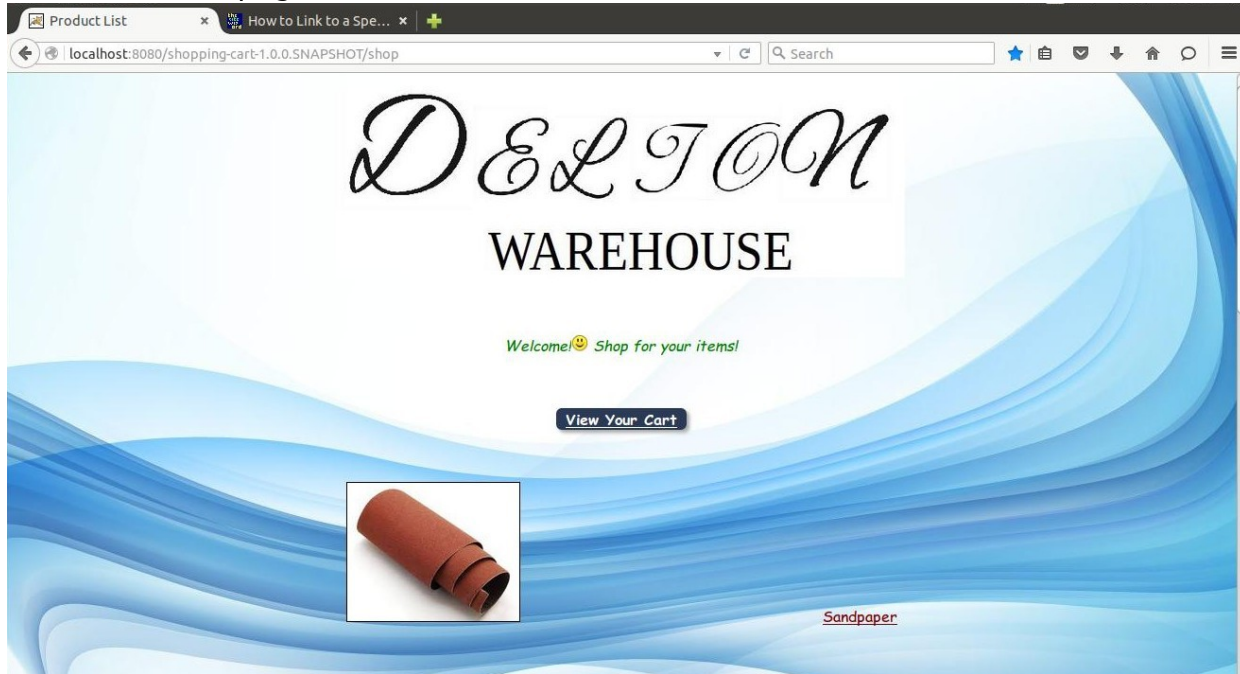
```
shannon@shannon-SATELLITE-L755:~$ sudo apache-tomcat-7.0.73/bin/startup.sh
[sudo] password for shannon:
Using CATALINA_BASE:   /home/shannon/apache-tomcat-7.0.73
Using CATALINA_HOME:   /home/shannon/apache-tomcat-7.0.73
Using CATALINA_TMPDIR: /home/shannon/apache-tomcat-7.0.73/temp
Using JRE_HOME:        /usr/lib/jvm/java-7-openjdk-amd64/jre
Using CLASSPATH:       /home/shannon/apache-tomcat-7.0.73/bin/bootstrap.jar:/home/shannon/apache-tomcat-7.0.73/bin/tomcat-juli.jar
Tomcat started.
shannon@shannon-SATELLITE-L755:~$
```

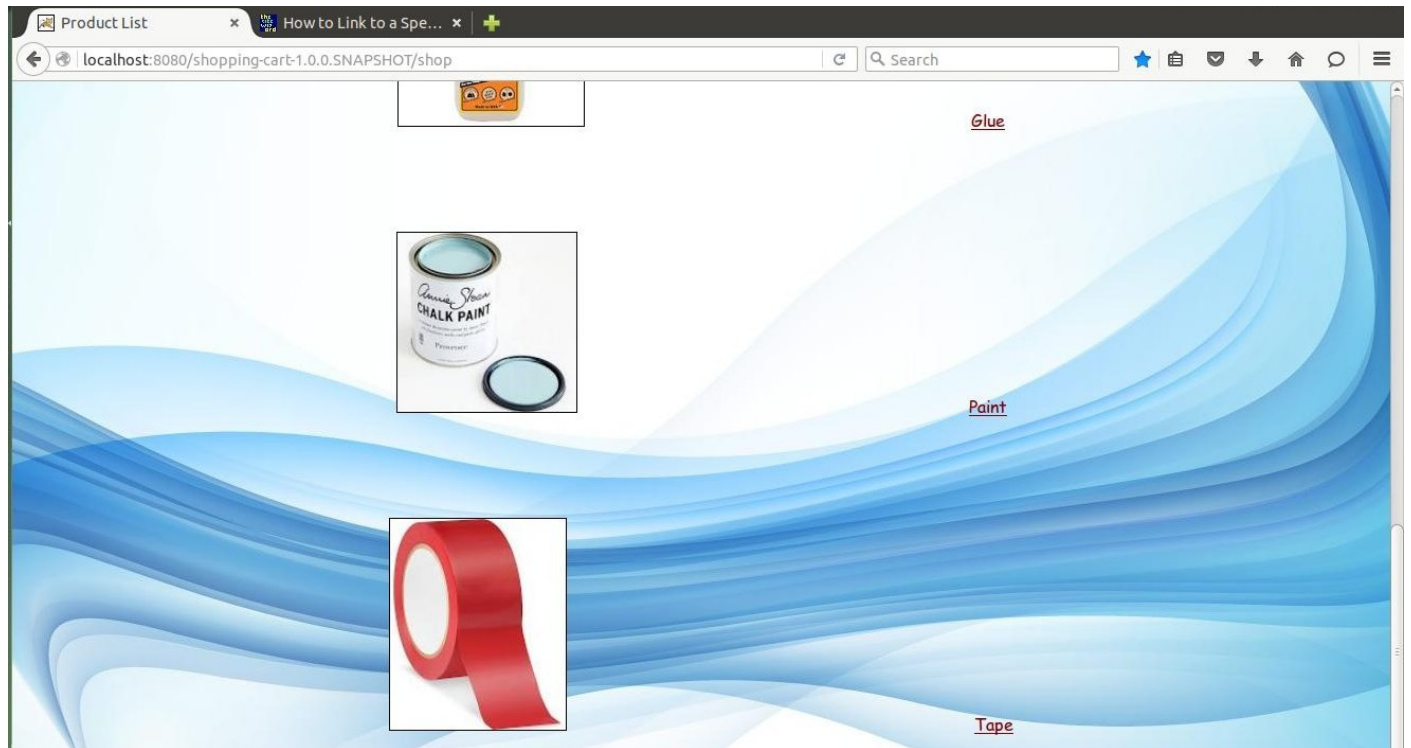
Go to web browser and type the following

<http://localhost:8080/shopping-cart-1.0.0.SNAPSHOT/shop>

How project works?

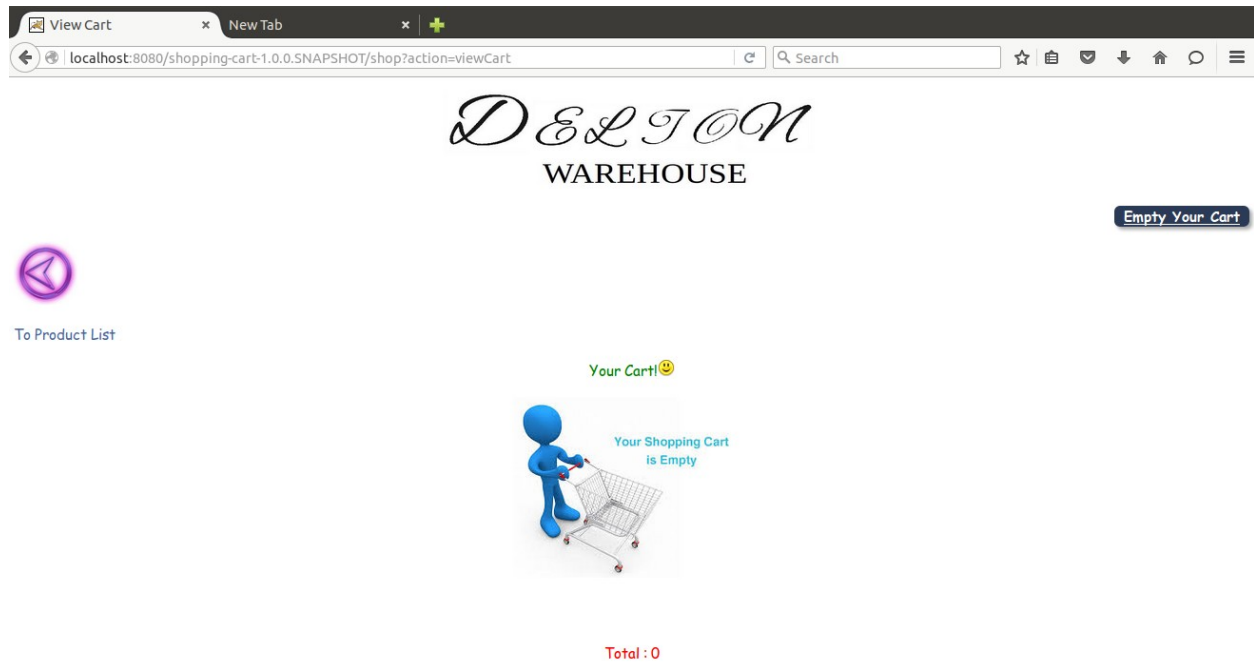
This is the home page:





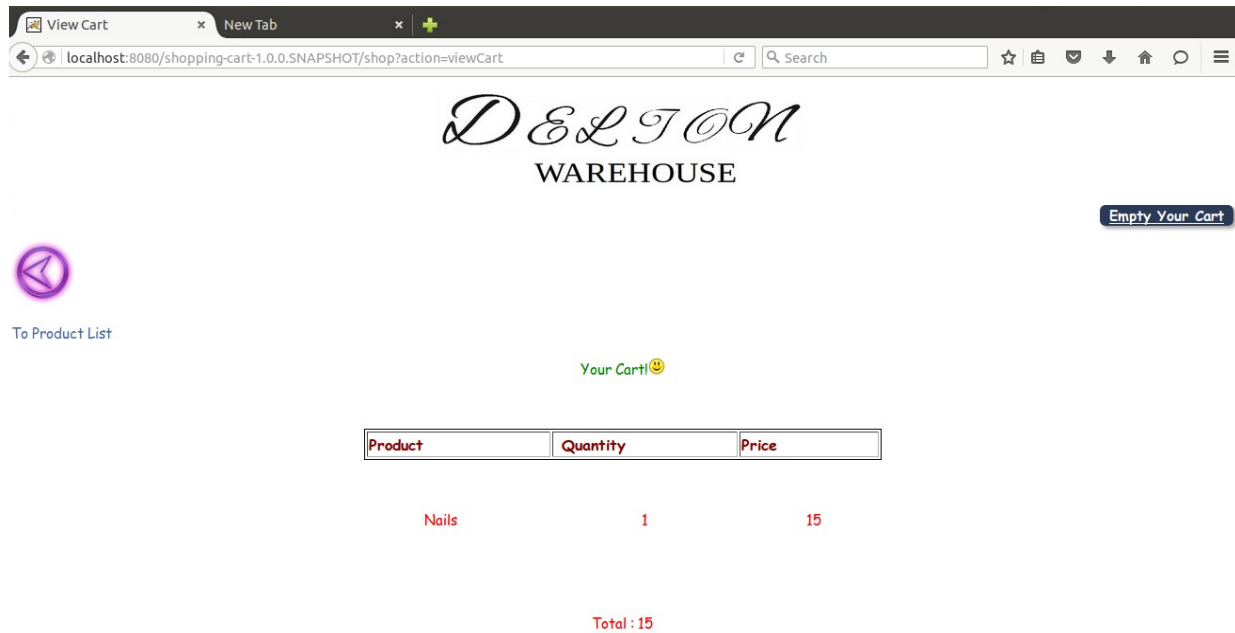
To view your cart, Click on View your cart

Initially, you cart will be empty. On clicking `View Your Cart`, you see the below page



To go back to product list, Click the on the back icon. You should be able to see the home page.

Adding to the Cart, Add Nails by clicking on Nails.

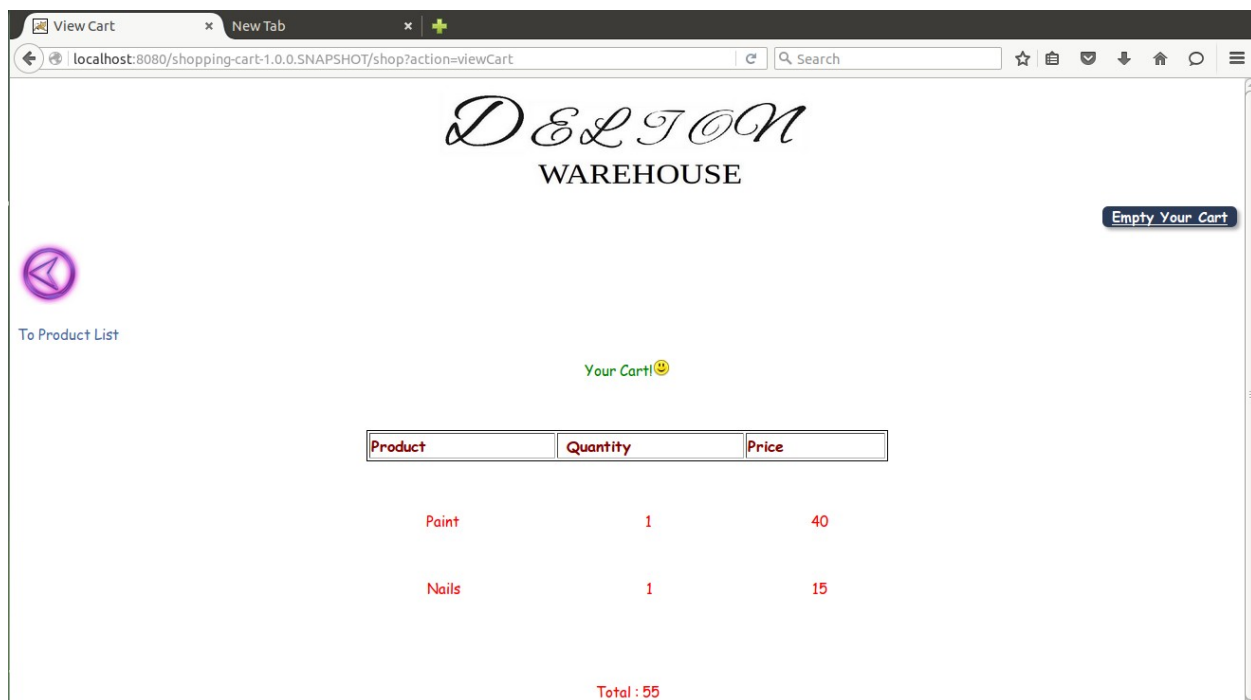


The screenshot shows a web browser window with the URL `localhost:8080/shopping-cart-1.0.0.SNAPSHOT/shop?action=viewCart`. The page header features the "D&L TON WAREHOUSE" logo and an "Empty Your Cart" button. A link "To Product List" is on the left. The cart is titled "Your Cart! 😊" and contains a table with one item:

| Product | Quantity | Price |
|---------|----------|-------|
| Nails | 1 | 15 |

The total price is displayed as "Total : 15".

Adding to the cart, Add Paint by clicking on Paint

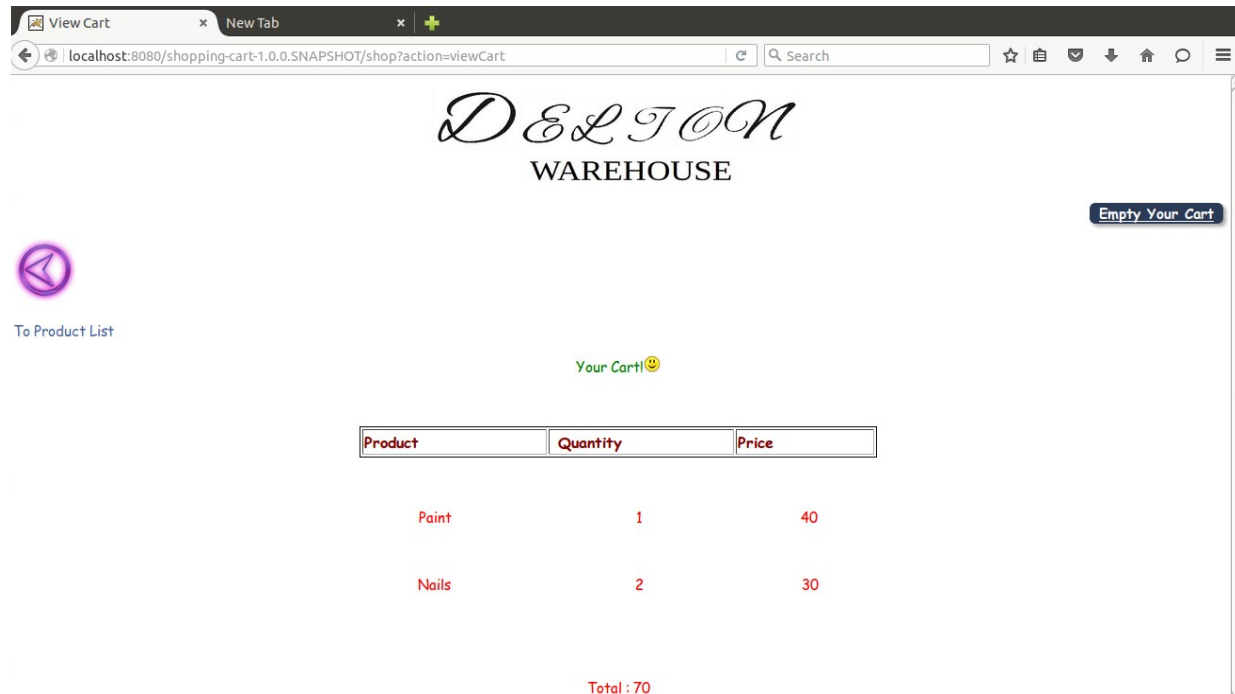


The screenshot shows the same web browser window, but now the cart contains two items:

| Product | Quantity | Price |
|---------|----------|-------|
| Paint | 1 | 40 |
| Nails | 1 | 15 |

The total price is displayed as "Total : 55".

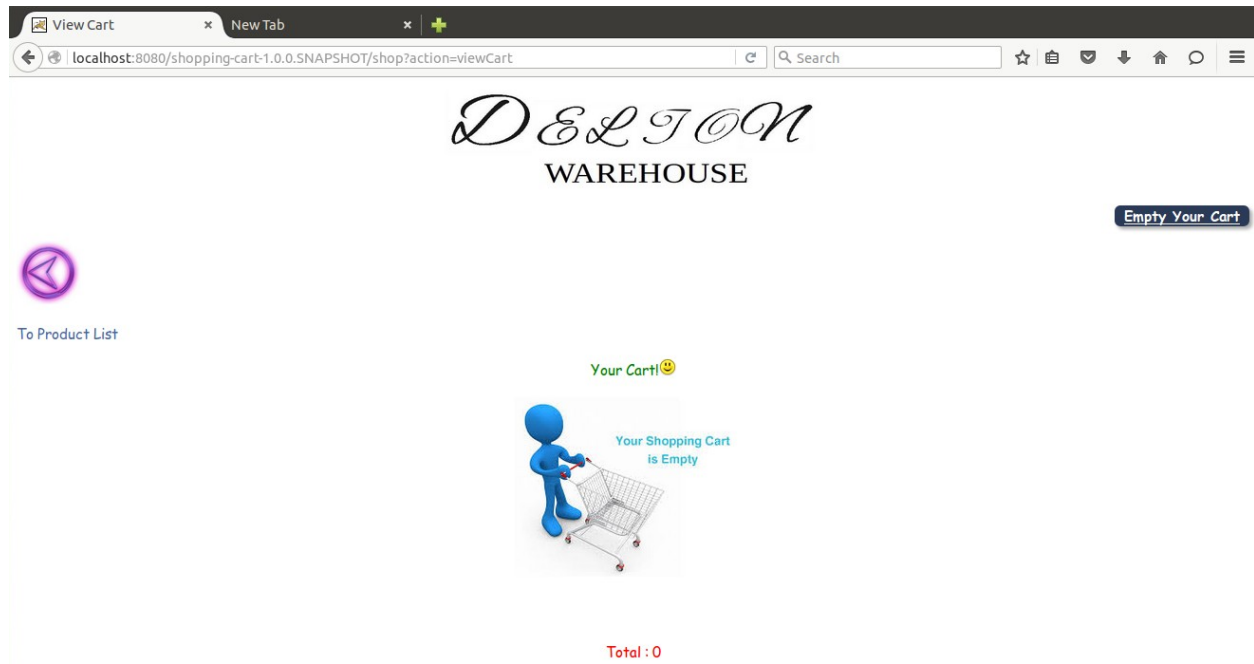
Add Nails again, by clicking on Nails



Total Price is listed at the end. In the above screen shot, the total is 70.

You can further empty your cart by clicking on `Empty Your cart` on the top right corner.

You will see the following page:



The log file for the above events are be as follows:-

```
2016-12-10 15:57:22 INFO StoreServlet:46 - Product Id:5 Product Name:Tape
2016-12-10 15:57:22 INFO StoreServlet:46 - Product Id:4 Product Name:Paint
2016-12-10 15:57:22 INFO StoreServlet:46 - Product Id:3 Product Name:Glue
2016-12-10 15:57:22 INFO StoreServlet:46 - Product Id:2 Product Name:Nails
2016-12-10 15:57:22 INFO StoreServlet:46 - Product Id:1 Product Name:Sandpaper
2016-12-10 15:57:22 INFO StoreServlet:221 - Browse Cart
2016-12-10 16:20:54 INFO StoreServlet:209 - View Cart
2016-12-10 16:23:47 INFO StoreServlet:221 - Browse Cart
2016-12-10 16:23:52 INFO StoreServlet:87 - Adding to the cart
2016-12-10 16:23:52 INFO StoreServlet:92 - Product Id : 2 Product Name : Nails
2016-12-10 16:23:52 INFO StoreServlet:136 - Nails Quantity : 1
2016-12-10 16:23:52 INFO StoreServlet:138 - Prices Map values after adding Nails
2016-12-10 16:23:52 INFO StoreServlet:142 - Product Id : 2 Price Value : 15
2016-12-10 16:23:52 INFO StoreServlet:186 - Cart Map values
2016-12-10 16:23:52 INFO StoreServlet:190 - Product Id : 2 Cart Value(Quantity): 1
2016-12-10 16:23:52 INFO StoreServlet:209 - View Cart
2016-12-10 16:24:05 INFO StoreServlet:221 - Browse Cart
2016-12-10 16:24:11 INFO StoreServlet:87 - Adding to the cart
2016-12-10 16:24:11 INFO StoreServlet:92 - Product Id : 4 Product Name : Paint
2016-12-10 16:24:11 INFO StoreServlet:160 - Paint Quantity: 1
2016-12-10 16:24:11 INFO StoreServlet:162 - Prices Map values after adding Paint
2016-12-10 16:24:11 INFO StoreServlet:166 - Product Id : 4 Price Value :40
2016-12-10 16:24:11 INFO StoreServlet:166 - Product Id : 2 Price Value :15
2016-12-10 16:24:11 INFO StoreServlet:186 - Cart Map values
2016-12-10 16:24:11 INFO StoreServlet:190 - Product Id : 4 Cart Value(Quantity): 1
2016-12-10 16:24:11 INFO StoreServlet:190 - Product Id : 2 Cart Value(Quantity): 1
2016-12-10 16:24:11 INFO StoreServlet:209 - View Cart
```

2016-12-10 16:24:17 INFO StoreServlet:221 - Browse Cart
2016-12-10 16:24:20 INFO StoreServlet:87 - Adding to the cart
2016-12-10 16:24:20 INFO StoreServlet:92 - Product Id : 2 Product Name : Nails
2016-12-10 16:24:20 INFO StoreServlet:136 - Nails Quantity : 2
2016-12-10 16:24:20 INFO StoreServlet:138 - Prices Map values after adding Nails
2016-12-10 16:24:20 INFO StoreServlet:142 - Product Id : 4 Price Value : 40
2016-12-10 16:24:20 INFO StoreServlet:142 - Product Id : 2 Price Value : 30
2016-12-10 16:24:20 INFO StoreServlet:186 - Cart Map values
2016-12-10 16:24:20 INFO StoreServlet:190 - Product Id : 4 Cart Value(Quantity): 1
2016-12-10 16:24:20 INFO StoreServlet:190 - Product Id : 2 Cart Value(Quantity): 2
2016-12-10 16:24:20 INFO StoreServlet:209 - View Cart
2016-12-10 16:29:12 INFO StoreServlet:199 - Empty the Cart
2016-12-10 16:29:12 INFO StoreServlet:209 - View Cart.