

Final Project Readme

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• Project Summary

In this project, we had to continue what we have done on MP3 and MP4 and finalize it like a real website.

My projet is a sort of e-commerce web site. There are two roles: employees and customers.

Customers can see their personal information and edit them. They can see their previous orders and make new one. When they see the products, they can add them to the cart and then choose the quantity (not more than the max quantity allowed). They can see what is in their cart and order it.

Employees can also see their personal information and edit them. They can see their customers and orders of these ones. When they see the orders, they can update the status and see the products in each order. They can see the products. They can edit and delete each product. Products which are in customers' s orders cannot be deleted. They can add new products.

People who are not registered to the website can see all the products but cannot add them to their cart. They can register to the website and will receive a confirmation email.

• Design

I implement this project with JSF.

I made two folders: one for xhtml files for customers and one for employees. I used three templates: one public for people who are not logged in, one customer template for customers logged and one employee template for employees logged.

I used a navigation bar to navigate between which products you want to see. I also used a side bar for customers and employees, to see what they can do. For the customers, they can see their personal info, their orders and their cart and the employees can see their personal information, their customers and the products.

I implemented a search bar in the navigation bar for people who want to see specific products. The search bar search in the description product, the color, the brand, the type and the gender.

As extra requirements, I implemented JavaMail. When a user register to the website, an email is send to him to welcome him on the website. I used some Bean Validation for the registration part, but also when an employee add or edit a product. I used BootStrap to make nice table, for the navigation and side bars and for buttons. I also used some components from PrimeFaces like data table inside ui:repeat.

• Development Insights

For this project, I loved that we started from what we have done earlier and finished it to be a real website usable for non-programming users.

I loved having time to do it because I wanted to be proud of what I give for this final project. I'm happy to have learned what is JSF and what are their main components. Even if I'm sure I have not used it the most efficient way, I'm not entirely convinced with its performance.

This semester I have learned a lot about how developing Java EE in the professional way. I'm really happy of everything I have learned and I hope my final project will reflect it.

• Requirements (Installation, Compile, Runtime,etc)

To connect to the database, username:"ltmd4515", password:"ltmd4515"

1. Unzip my project
2. Open NetBeans
3. Go to File->Open Project
4. Open the unzip file named Mchancer FP
5. In Netbeans, go in services, servers, right click on GlassFish Server and click on View Domain Admin Console
6. Go in configurations, server-config, security, Realm and add new
7. Complete it as the picture bellow
8. In the Netbeans project, there is a Libraries folder, right click on it
9. Click on Add JAR/Folder
10. Choose the commons-codec-1.9.jar
11. Right click on the commons-codec-1.9.jar in your Libraries folder
12. Select Edit
13. Next to Javadoc, browse the commons-code-1.9-javadoc.jar
14. Next to Source, browse the commons-codec-1.9-source.jar
15. Click on OK
16. Right Click on Libraries
17. Click on Add Library
18. Choose PrimeFaces 5.0
19. Click on Add Library
20. Right click on the project, Clean and Build it
21. Right click on GlassFish server, Start it
22. Right click on the project, Deploy it
23. Right click on the project, Run it

Contexte de JAAS : *	<input type="text" value="jdbcRealm"/> Identificateur du module de connexion à utiliser pour ce domaine
JNDI: *	<input type="text" value="jdbc/mp4DS"/> Nom JNDI de la ressource JDBC utilisée par ce domaine
Table des utilisateurs : *	<input type="text" value="secUser"/> Nom de la table de base de données contenant la liste des utilisateurs autorisés pour ce domaine
Colonne de noms utilisateur : *	<input type="text" value="login"/> Nom de la colonne de la table d'utilisateurs contenant la liste des noms utilisateur
Colonne de mots de passe : *	<input type="text" value="password"/> Nom de la colonne de la table d'utilisateurs contenant la liste des mots de passe utilisateur
Table de groupes : *	<input type="text" value="secUserGroup"/> Nom de la table de base de données contenant la liste des groupes pour ce domaine
Colonne du nom utilisateur de la table de groupe :	<input type="text" value="login"/> Nom de la colonne de la table de groupes d'utilisateurs contenant la liste des groupes pour ce domaine
Colonne de noms de groupes : *	<input type="text" value="groupname"/> Nom de la colonne de la table de groupes contenant la liste des noms de groupes
Algorithme de cryptage du mot de passe : *	<input type="text" value="none"/> Il s'agit de l'algorithme de cryptage des mots de passe dans la base de données. Le fait de laisser ce champ vide constitue un risque de sécurité.
Affecter des groupes :	<input type="text"/> Liste des noms de groupes (séparés par des virgules)
Utilisateur de la base de données :	<input type="text"/> Spécifiez le nom utilisateur de base de données dans le domaine plutôt que le pool de connexions JDBC
Mot de passe de la base de données :	<input type="text"/> Spécifiez le mot de passe de base de données dans le domaine plutôt que le pool de connexions JDBC
Algorithme condensé :	<input type="text" value="SHA1"/> Algorithme condensé (valeur par défaut : SHA-256). La valeur par défaut était MD5 dans les versions de GlassFish antérieures à 3.1
Codage :	<input type="text"/> Codage (valeurs autorisées : Hex et Base64)
Jeu de caractères :	<input type="text"/> Jeu de caractères pour l'algorithme condensé

The version of NetBeans used for the project is NetBeans 8.0.1.

I used JDK 1.8 and GlassFish Server 4.

The JSF version is 2.2 and PrimeFaces version 5.0 .

[My project is optimized for Google Chrome.](#)

My databases are handled by MySQL Workbench 6.0 with MAMP 3.0.

• Screen Captures

Home page:

Log in form:

User Login

Username

Password

Log in Alerts:

User Login

Please enter your username

×

Please enter your password

×

Username

Password

User Login

Bad Login

×

Username

Password

Customer Home Page:

[My
information](#)[My Orders](#)[My Cart](#)

Welcome mchancer

Customer info:

My information

Manon Chancereul
chancereul.manon@gmail.com
8723011934

3521 N Reta Ave
60657 Chicago, IL
USA

[Edit Info](#)

Edit Info:

Edit Info

Personal Info :

First Name	<input type="text" value="Manon"/>
Last Name	<input type="text" value="Chancereul"/>
Email	<input type="text" value="chancereul.manon@gmail.com"/>
Phone No	<input type="text" value="8723011934"/>

Address :

Street	<input type="text" value="3521 N Reta Ave"/>
City	<input type="text" value="Chicago"/>
State	<input type="text" value="IL"/>
Zip Code	<input type="text" value="60657"/>
Country	<input type="text" value="USA"/>

[Edit Info](#) [Cancel](#)

Edit Info alerts:

Please enter your first name
Please enter your last name
You must provide us an email address
The phone number should be 10 digits
Please enter your street
Please enter your city
The length max of the state is 3
Zip code should be 5 digits
Please enter your country

My Orders:

My Orders

Date Created	Date Shipped	Status	Price	See Details
11 oct. 2014	21 oct. 2014	Shipped	227.37	Details

Date Created	Date Shipped	Status	Price	See Details
1 oct. 2014	10 oct. 2014	Delivered	311.14	Details

Order details:

Order ID : 1

[Back to My Orders](#)

Description	Price	Size	Color	Brand	Type	Gender	Quantity
nice hoodie	39.8	S	black	Hollister	Top	Women	3

Description	Price	Size	Color	Brand	Type	Gender	Quantity
nice jean	35.99	L	blue	Urban Outfitters	Bottom	Boys	3

All Products:

All Products

Description	Price	Size	Color	Brand	Type	Gender	Quantity	Add Product to Cart
sneakers	69.99	6	green	Zara	Sneakers	Shoes	4	Add
beautiful pants	43.49	XS	black	American Eagle	Bottom	Women	4	Add
military jean	38.49	M	khaki	American Eagle	Bottom	Men	4	Add
classic belt	15.99	8	black	Banana Republic	Belts	Accessories	4	Add
tee shirt	29.49	M	purple	Zara	Top	Girls	4	Add
parka	19.49	S	black	Aeropostale	Outerwear	Boys	4	Add
pretty parka	28.99	XL	white	Abercrombie	Outerwear	Men	4	Add
boots	119.49	8	black	Aldo	Boots	Shoes	4	Add

Add to Cart:

Add To My Cart

Description	Price	Size	Color	Brand	Type	Gender
sneakers	69.99	6	green	Zara	Sneakers	Shoes

/\ Quantity max = 4

Quantity : [Add](#)

Quantity alert:

Quantity superior than quantity max allowed !!!



My cart:

My Cart

Date Created	Date Shipped	Status	Price	See Details	Order
10 déc. 2014	15 déc. 2014	In cart	119,40	Details	Order

Order Details in Cart:

Order ID : 4

[Back to My Orders](#)

Description	Price	Size	Color	Brand	Type	Gender	Quantity
nice hoodie	39.8	S	black	Hollister	Top	Women	3

[Delete this product](#)

Description	Price	Size	Color	Brand	Type	Gender	Quantity
military jean	38.49	M	khaki	American Eagle	Bottom	Men	2

[Delete this product](#)

Delete a product from the cart:

Do you want to delete this product ?

Description	Price	Size	Color	Brand	Type	Gender
military jean	38.49	M	khaki	American Eagle	Bottom	Men
Delete						

Order in cart ordered, now in orders:

My Orders

Date Created	Date Shipped	Status	Price	See Details
11 oct. 2014	21 oct. 2014	Shipped	227.37	Details

Date Created	Date Shipped	Status	Price	See Details
1 oct. 2014	10 oct. 2014	Delivered	311.14	Details

Date Created	Date Shipped	Status	Price	See Details
10 déc. 2014	15 déc. 2014	Preparation	209.97	Details

Employee home page:

[My personal
infos](#)[My
customers](#)[Products](#)

Welcome jleroi

Employee's customers:

My customers

Customer ID	First Name	Last Name	Orders	
A20330164	Manon	Chancereul	1,2,4	See order details
A33333333	Matthieu	Huger	3	See order details

Order details:

Customer ID : A20330164

Order ID	Date Created	Date Shipped	Status	Price	OrderLine ID	Update Status	See Details
1	11 oct. 2014	21 oct. 2014	Shipped	227.37	2	Update	Details
Order ID	Date Created	Date Shipped	Status	Price	OrderLine ID	Update Status	See Details
3	1 oct. 2014	10 oct. 2014	Delivered	311.14	3,4	Update	Details
Order ID	Date Created	Date Shipped	Status	Price	OrderLine ID	Update Status	See Details
6	10 déc. 2014	15 déc. 2014	Preparation	209.97	9	Update	Details

[Back to List of Customers](#)

Update status of order:

Update Order 6

Status

Preparation

[Edit Order Status](#) [Cancel](#)

See order details:

Order ID : 4

Product ID	Description	Price	Size	Color	Brand	Type	Type
7	sneakers	69.99	6	green	Zara	Sneakers	Shoes

[Back to Order Details](#)

[Back to List of Customers](#)

Products:

Products

Add Product

Description	Price	Size	Color	Brand	Type	Gender	Quantity	Modify
trench coat	19.49	S	blue	H&M	Outerwear	Girls	4	Edit Delete
original bow tie	9.49	U	navy	Gap	BowTies	Accessories	4	Edit Delete
nice hoodie	39.8	S	black	Hollister	Top	Women	4	Edit Delete
boots	119.49	8	black	Aldo	Boots	Shoes	4	Edit Delete
jacket	123.49	S	khaki	Hollister	Outerwear	Women	4	Edit Delete
military jean	38.49	M	khaki	American Eagle	Bottom	Men	4	Edit Delete
sneakers	69.99	6	green	Zara	Sneakers	Shoes	1	Edit Delete
nice sweater	19.99	M	pink	Abercrombie	Top	Men	3	Edit Delete

Edit a product:

Edit Product

Description	trench coat
Price	19,49
Size	S
Color	blue
Brand	H&M
Quantity	<div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div>
Type	<div>Top</div> <div>Dress</div> <div>Bottom</div> <div>Outerwear</div> <div>Boots</div> <div>FlipFlops</div> <div>Sneakers</div> <div>Hats</div> <div>Belts</div> <div>BowTies</div> <div>Umbrellas</div>
Gender	<div>Women</div> <div>Men</div> <div>Boys</div> <div>Girls</div> <div>Shoes</div> <div>Accessories</div>

Edit Product

Cancel

Try to delete a product, when a customer had an order with it:

Delete Product

You cannot delete this product. Someone ordered it !

[Back to Products](#)

Delete a product nobody ordered:

Delete Product

Do you want to delete this product ?

Delete Product

Cancel

Add a product:

Add Product

Description	<input type="text"/>
Price	<input type="text" value="0"/>
Size	<input type="text"/>
Color	<input type="text"/>
Brand	<input type="text"/>
Quantity	<div>1 2 3 4 5</div>
Type	<div>Top Dress Bottom Outerwear Boots FlipFlops Sneakers Hats Belts BowTies Umbrellas</div>
Gender	<div>Women Men Boys Girls Shoes Accessories</div>

[Cancel](#)

Alerts in adding a product:

Description cannot be null

Price cannot be under 1

Size could not be null

Quantity cannot be null

Type cannot be null

Gender cannot be null

✕

Registration form:

Please inform each line :

Username	<input type="text"/>
Password	<input type="password"/>
Personal Info :	
First Name	<input type="text"/>
Last Name	<input type="text"/>
Email	<input type="text"/>
Phone No	<input type="text"/>
Address :	
Street	<input type="text"/>
City	<input type="text"/>
State	<input type="text"/>
Zip Code	<input type="text"/>
Country	<input type="text"/>
<input type="button" value="Register"/> Cancel	

Registration alerts:

Please enter your username
Please enter your password
Please enter your first name
Please enter your last name
You must provide us an email address
Please enter your street
Please enter your city
Please enter your state
Please enter your zip code
Please enter your country

Username

mchancer

Username already existed

Alert when username already existed:

Welcome new customer !

Congratulation you are registered !!

[Log in here](#)

Registration accomplished:
send to the new customer:

Mail

manon.iit.finalproject@gmail.com

À : manorita_6@hotmail.com

Welcome Thibault Cantet

Dear Thibault,

We are happy to count you in our privileged customers.
Thank you for that !
We look forward to seeing you soon on our website !

• Expected Results/Known Issues

Test Script :

1. Click on All
2. You can see all the products
3. Click on Women, Dresses
4. You can see the women dresses products
5. Click on Men men
6. You can see all the men products
7. Write 'pink' in the search bar
8. You can see all the products that have 'pink' in their description, color, brand, type or gender.
9. Click on Log In
10. Click on Login
11. You can see the alerts : Please enter your username and Please enter your password
12. Write any username you want and any password
13. Click on Login
14. You can see the alert : Bad Login
15. Write username; 'mchancer' password: 'mchancer'
16. Click on Login
17. You are logged as a customer
18. Click on My Information
19. Click on Edit Info
20. If you delete some field or add more than 10 digits for the phone Number or more than 3 characters for the state, you are going to see alerts
21. Change name if you want and click on Edit Info
22. Click on My Orders
23. You can see all the previous orders by this customer
24. Click on Details for the first order for example
25. You can see the product inside the order
26. Click on My Cart
27. It's empty for now
28. Click on All
29. Click on Add for a product
30. You can see in red the maximum quantity you can order
31. Try to put a quantity more than this
32. Click on Add
33. You have an alert saying that the quantity is superior than the max allowed
34. Click on Women Tops
35. Click on Add
36. Select 3 and click on Add
37. You can see it creates an order in your cart
38. Click on Men Bottoms
39. Click on Add
40. Select 2 and click on Add
41. You can see the price changed in your order in your cart
42. Click on My orders
43. You can see your new order that is in your cart
44. Click on my cart
45. Click on details
46. You can see your two products
47. For both products, click on delete this products and delete
48. You have no more orders in your cart
49. Click on my orders
50. You can see that the orders that was in your cart is not here neither
51. Click on Shoes, Sneakers
52. Click on Add
53. Select 3 and click on Add
54. Click on order
55. You can see that the order is in your orders with status preparation and no more in your cart
56. Click on Log Out
57. Click on Log In
58. Write username; 'jleroi' password: 'jleroi'
59. You are logged in as an employee
60. Click on My customers
61. You can see all the customers of this employee
62. Click on See order details in front of Manon Chancereul
63. You can see all the orders of mchancer

64. Click on update in front of one order
65. Change the status and click on Edit order status
66. Click on see order detail of Manon Chancereul
67. You can see the status you changed is changed
68. Click on details
69. You can see the products of one specific order
70. Click on Products
71. Click on Edit on one product
72. You can test the Bean validation here
73. Click on Edit product when you are done
74. Click on delete in front on the sneakers you ordered before
75. You can see that you cannot delete a product that has been ordered by a customer
76. Click on Back to Products
77. Click on delete in front of the trench coat for example
78. Click on Delete product
79. The trench coat is deleted
80. Click on Add product
81. Click on Add product
82. You can see the alerts from the Bean validation
83. Write in description: 'trench coat', a price of '32.99', a size of: XS, a quantity of 5, a type of outerwear and a gender of girls
84. Click on add product
85. Click on Kids, outerwear in girls
86. You can see the product you just add
87. Click on Log Out
88. (Click on Go Back to home Page)
89. Click on Register
90. Click on Register
91. You can see once again the alerts from the Bean validation
92. Write a username of 'mchancer' and fulfill all the other field
93. You can see another alert that says that the username is already existed
94. Fulfill each field. In the email field, write yours to test that the JavaMail is working well.
95. Click on register
96. You can see that you are registered
97. Click on log in here
98. Try to log in with the credentials you just registered
99. You are logged in as a customer
100. You can see in your mail box that you received a mail