## **Final Project Readme**

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**Manon Chancereul** 

A20330164

### 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: "Itmd4515", password: "Itmd4515"

- 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 : *	idbcRealm	
	Identificateur du module de connexion à utiliser pour ce domaine	
JNDI: *	jdbc/mp4DS	
	Nom JNDI de la ressource JDBC utilisée par ce domaine	
Table des utilisateurs : *	secUser	
	Nom de la table de base de données contenant la liste des utilisateur	rs autorisés pour ce domaine
Colonne de noms utilisateur : *	login	
	Nom de la colonne de la table d'utilisateurs contenant la liste des no	ms utilisateur
Colonne de mots de passe : *	password	
	Nom de la colonne de la table d'utilisateurs contenant la liste des mo	ts de passe utilisateur
Table de groupes : *	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 :	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 : *	groupname	
	Nom de la colonne de la table de groupes contenant la liste des nom	ns de groupes
Algorithme de cryptage du mot de passe : *	none	
	ll s'agit de l'algorithme de cryptage des mots de passe dans la base sécurité.	de données. Le fait de laisser ce champ vide constitue un risque de
Affecter des groupes :		
	Liste des noms de groupes (séparés par des virgules)	
Utilisateur de la base de données :		
	Spécifiez le nom utilisateur de base de données dans le domaine plu	utôt que le pool de connexions JDBC
Mot de passe de la base de données :		
	Spécifiez le mot de passe de base de données dans le domaine plut	ôt que le pool de connexions JDBC
Algorithme condensé :	SHA1	
	Algorithme condensé (valeur par défaut : SHA-256). La valeur par de	éfaut était MD5 dans les versions de GlassFish antérieures à 3.1
Codage :		
	Codage (valeurs autorisées : Hex et Base64)	
Jeu de caractères :		
	leu de caractères nour 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:

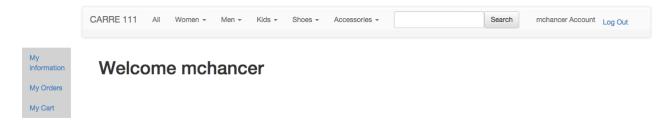
### **User Login**



# **User Login**

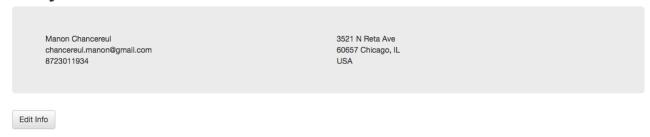


Customer Home Page:



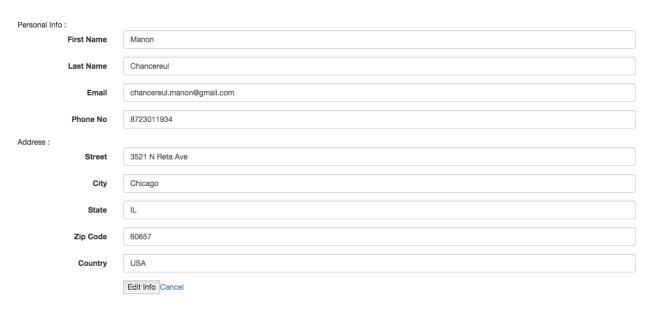
#### Customer info:

# My information



#### Edit Info:

### **Edit Info**



#### 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	Тор	Women	3

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

#### All Products:

### **All Products**

Description	Price	Size	Color	Brand	Туре	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	М	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	Тор	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	Туре	Gender
sneakers	69.99	6	green	Zara	Sneakers	Shoes

Quantity alert:

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

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

Description	Price	Size	Color	Brand	Туре	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:

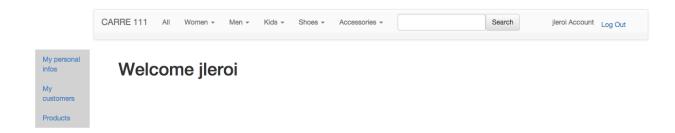
# My Orders

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:



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:

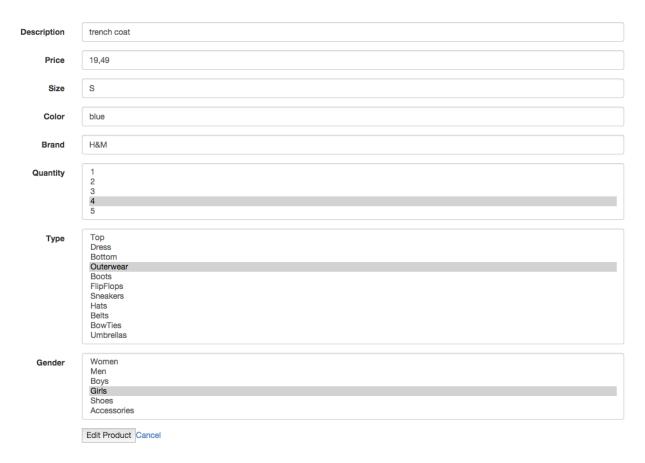
### **Products**

Add Product

Description	Price	Size	Color	Brand	Туре	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	Тор	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	М	khaki	American Eagle	Bottom	Men	4	Edit   Delete
sneakers	69.99	6	green	Zara	Sneakers	Shoes	1	Edit   Delete
nice sweater	19.99	М	pink	Abercrombie	Тор	Men	3	Edit   Delete

Edit a product:

**Edit Product** 



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									
Price	0								
Size									
Color									
Brand									
Quantity	1 2 3 4 5								
Туре	Top Dress Bottom Outerwear Boots FlipFlops Sneakers Hats Belts BowTies Umbrellas								
Gender  Alerts in adding a	Women Men Boys Girls Shoes Accessories  Add Product Cancel product:								
	Description cannot be null  Price cannot be under 1								
Size could not b									
Quantity cannot									
Type cannot be Gender cannot l									
Goridor Gaririot i	oo nan								

Registration form:

### Please inform each line: Password Personal Info: First Name **Last Name** Email Phone No Address: Street City State Zip Code Country 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 mchancer Username Username already existed Alert when username already existed: Welcome new customer! Congratulation you are registered !! Log in here send to the new customer:

Registration accor	mplished:	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