

ITMD 515 Final Project Read Me

Aim:

The purpose of this assignment is to produce a comprehensive multi-tiered enterprise application, consisting of a persistence layer, business layer, and presentation layer, also making use of Java EE services such as security and transactions

Project Summary and Design:

- The final project consists of the following domain model:
 - Designer – designs the product and owns a brand
 - Brand – belongs to the designer and it contains various products
 - Customer – views the existing products and places the orders
 - Product – belongs to a brand
 - Order – contains the details of the order
- The relationships between these entities is as follows:
 - One to One Unidirectional => Designer and Brand
 - Many to Many Bi => Product and Order
 - One to Many Bi => Customer and Products
 - One to Many Bi => Brand and Products
 - One to Many Unidirectional => Designer and Order
- I have identified in all two roles as users to use the application:
 - Designer can do the following:
 - Can sign up as a designer
 - A new designer can create a brand
 - Can view and update the profile
 - Can view the existing products, order details and the total sale
 - Can add products to the brand (*Issue with my application is that it does add a new product but it happens to create an additional blank product row for every newly added product*)
 - Can update the products of the brand
 - Can delete the products from the brand
 - Can logout
 - Customer can do the following:
 - Can sign up as a customer
 - Can view all the available products
 - Can create a new order by adding a product
 - Can review the existing orders
 - Can view and update the profile
 - Can logout

- My plan was to have an Admin role too but due to lack of time I had to de-scope it
- I have made use of the JSF pages in the presentation layer
- I have displayed most of the information in tabular format as stated in the requirement
- I have made use of the bootstrap frontend framework as shown by Prof. Spyrisson in order to implement basic CSS in my presentation layer
- I have ensured validation through JSF
- Through my databasePopulator I have enough test samples ready:
 - For designer role: Login as “*designer1*” and password: “*desi*”
 - For customer role: Login as “*cust1*” and password: “*cust*”
- The user can sign up as a new designer or customer to create an account
- I have handled exceptions in such a way that it will log the errors and show valid error/alert messages to the user explaining the real problem

Development Insights:

- I enjoyed learning and implementing JSF components
- It was a challenging task as I am new to this technology but I learned a lot from the BalusC blog available online
- I made few silly mistakes such as not initializing instances that gave me 100's of null pointer exceptions but I caught them in the end. This ate too much of my time
- Given some free time in future I would like to implement a proper e-commerce website using J2EE. I want to explore the payment method implementation such as credit card validation and making a money transaction etc.

Requirements:

- OS: Mac OS 10.8
- Installation: MySQL WorkBench, NetBeans and JDK 7 for macosx
- MySQL user: itmd4515 with password as itmd4515
- Right-Click on the Tgajare Final Project web application in NetBeans and click run
- Libraries: Apache Common Codec 1.8 jar for encryption of password in the database

Screen Captures:

1. Welcome Page that navigates to login



2. Enter a sample designer credentials : designer1 and desi and click on Login button

Please sign in

Username:	<input type="text" value="designer1"/>
Password:	<input type="password" value="...."/>
<input type="button" value="Login"/>	Sign Up as a Designer Sign Up as a Customer

3. Welcome page of a designer



Welcome designer1

4. Designer Tab to view the brand, products and order details

Welcome Tab	Designer Tab	Manage Brand	Profile	Logged in as designer1 ▾
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Welcome, Guccio Gucci

Brand owned is: **Gucci**

Product ID	Product Name	Product Description	Product Price	Order Details	Total Sale
3	Tunic	Plum Color	30.0	Order ID Order Date Order Time Quantity	150.0
				1 5/10/12 6:45:00 AM 3	
				2 6/30/09 5:15:00 PM 2	
4	Capri	Black	10.0	Order ID Order Date Order Time Quantity	50.0
				3 6/1/08 8:57:00 PM 2	
				4 9/13/01 7:00:00 AM 1	
				5 8/4/13 10:00:00 AM 2	

5. Manage Brand tab to perform CRUD operations on the owned brand's products

Welcome Tab	Designer Tab	Manage Brand	Profile	Logged in as designer1 ▾
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Gucci has following products:

Product ID	Product Name	Product Description	Product Price	Customer ID	Action
3	Tunic	Plum Color	30.0	6	Edit Delete
4	Capri	Black	10.0	6	Edit Delete

[Add New Product](#)

6. Click on Edit to edit the product details- changed the name from Tunic to Tunicssss and click Save

Welcome Tab	Designer Tab	Manage Brand	Profile	Logged in as designer1 ▾
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Product Update for Gucci

Product ID	3
Product Name	<input type="text" value="Tunicsssss"/>
Product Description	<input type="text" value="Plum Color"/>
Product Price	<input type="text" value="30.0"/>
<input type="button" value="Save"/>	

7. Updated the product successfully

Welcome Tab	Designer Tab	Manage Brand	Profile	Logged in as designer1 ▾
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Gucci has following products:

- [Product has been updated](#)
- [Product has been updated](#)

Product ID	Product Name	Product Description	Product Price	Customer ID	Action
3	Tunicsssss	Plum Color	30.0		Edit Delete
4	Capri	Black	10.0	6	Edit Delete

[Add New Product](#)

8. Click on Add Product

Add Product to Gucci

Name	Socks
Description	Casual Socks
Price	10.00
<input type="button" value="Add"/>	

Gucci has following products:

Product ID	Product Name	Product Description	Product Price	Customer ID	Action
3	Tunicsssss	Plum Color	30.0	6	EditDelete
4	Capri	Black	10.0		EditDelete
7	Socks	Casual Socks	10.0		EditDelete

9. Click on Delete to delete the added product

Gucci has following products:

Product ID	Product Name	Product Description	Product Price	Customer ID	Action
3	Tunicsssss	Plum Color	30.0	6	EditDelete
4	Capri	Black	10.0		EditDelete

10. Update Profile – updated the email address

Profile: Guccio Gucci

Designer ID	First Name	Last Name	Email	Brand	Username
2	Guccio	Gucci	tgajare@hawk.iit.edu	Gucci	designer1

Profile Update for Guccio Gucci

First Name	Guccio
Last Name	Gucci
Email	gg@gmail.com
Brand	Gucci
<input type="button" value="Save"/>	

Welcome TabDesigner TabManage BrandProfile

Logged in as designer1

Profile: Guccio Gucci

Designer ID	First Name	Last Name	Email	Brand	Username
2	Guccio	Gucci	gg@gmail.com	Gucci	designer1

Update Profile

11. Logging Out as a designer

Welcome TabDesigner TabManage BrandProfile

Logged in as designer1

Profile: Guccio Gucci

Logout

Designer ID	First Name	Last Name	Email	Brand	Username
2	Guccio	Gucci	gg@gmail.com	Gucci	designer1

Update Profile

12. Login as a customer – cust1 and cust are the credentials

Welcome TabAvailable ProductsReview OrdersProfile

Logged in as cust1

Welcome cust1

13. Can add a product. Mention the quantity and click on add to order button

Welcome TabAvailable ProductsReview OrdersProfile

Logged in as cust1

Welcome, Tejal Gajare

Product ID	Product Name	Product Description	Product Price	Brand ID	Quantity	Action
1	Top	Deep Sea Green Color	20.0	3	<div>Quantity2</div>	<div>Add to Order</div>
2	Dress	Black Color	50.0	2	<div>Quantity0</div>	<div>Add to Order</div>
3	Tunicsssss	Plum Color	30.0	5	<div>Quantity0</div>	<div>Add to Order</div>
4	Capri	Black	10.0	5	<div>Quantity0</div>	<div>Add to Order</div>
5	Shirt	Coral	30.0	6	<div>Quantity0</div>	<div>Add to Order</div>

14. Order added successfully

Welcome TabAvailable ProductsReview OrdersProfile

Logged in as cust1

Welcome, Tejal Gajare

Following are the existing orders:

Order ID	Product Details	Order Date	Order Time	Order Quantity
1	<div><div>NamePriceBrandDescription</div><div>Top20.0Armani Deep Sea Green Color</div><div>Dress50.0DiorBlack Color</div><div>Top20.0Armani Deep Sea Green Color</div></div>	5/10/12	6:45:00 AM	3
3	<div><div>NamePriceBrandDescription</div><div>Capri10.0GucciBlack</div><div>Shirt30.0Calvin Klein Coral</div></div>	6/1/08	8:57:00 PM	2
6	<div><div>NamePriceBrandDescription</div><div>Top20.0Armani Deep Sea Green Color</div></div>	12/8/13	10:42:49 PM	2

15. Profile Update

Welcome TabAvailable ProductsReview OrdersProfile

Logged in as cust1

Profile: Tejal Gajare

Designer ID	First Name	Last Name	Email	Date of Birth(yyyy-mm-dd)	Phone	Line 1	Line 2	City	State	Zip	Country	Username
6	Tejal	Gajare	tgajare@hawk.iit.edu	Thu Jun 23 00:00:00 IST 1988	7706256116	3001 S Michigan Ave	1204	Chicago	IL	60616	USA	cust1

Update Profile

Welcome TabAvailable ProductsReview OrdersProfile

Logged in as cust1

Profile Update for Tejal Gajare

First Name

Tejal

Last Name

Gaj

Email

tgajare@hawk.iit.edu

Date of Birth

6/22/88

Phone

7706256116

Line 1

3001 S Michigan Ave

Line 2

1204

City

Chicago

State

IL

Zip

60616

Country

USA

Save

Welcome TabAvailable ProductsReview OrdersProfile

Logged in as cust1

Profile: Tejal Gaj

Designer ID	First Name	Last Name	Email	Date of Birth(yyyy-mm-dd)	Phone	Line 1	Line 2	City	State	Zip	Country	Username
6	Tejal	Gaj	tgajare@hawk.iit.edu	0088-06-22	7706256116	3001 S Michigan Ave	1204	Chicago	IL	60616	USA	cust1

Update Profile

16.Logging out

[Welcome Tab](#) [Available Products](#) [Review Orders](#) [Profile](#)

Logged in as cust1 [Logout](#)

Profile: Tejal Gaj

Designer ID	First Name	Last Name	Email	Date of Birth(yyyy-mm-dd)	Phone	Line 1	Line 2	City	State	Zip	Country	Username
6	Tejal	Gaj	tgajare@hawk.iit.edu	0088-06-22	7706256116	3001 S Michigan Ave	1204	Chicago	IL	60616	USA	cust1

Update Profile

17. Sign Up as a designer – created a new designer with the provided input

Create your Designer Account:

Username

designer23

Password

....

First Name

Designer23

Last Name

Designer23

Email

designer23@gmail.com

Brand

Designer23

Sign Up

Cancel

Please sign in

Username:

designer23

Password:

....

Login

[Sign Up as a Designer](#)
[Sign Up as a Customer](#)

Welcome designer23

Welcome, Designer23 Designer23

Brand owned is: Designer23

Product ID	Product Name	Product Description	Product Price	Order Details	Total Sale
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18. Sign Up as a new Customer

Create your Customer Account:

Username	tanmay
Password
First Name	tanmaya
Last Name	gajare
Email	tanmay@gmail.com
Phone	6768895678
Date Of Birth (mm/dd/yy)	05/23/99
Line1	hjh
Line2	hj
City	Chicago
State	IL
Country	USA
Zip	60616
<div>Sign Up Cancel</div>	

Welcome tanmay

Welcome, tanmaya gajare

Product ID	Product Name	Product Description	Product Price	Brand ID	Quantity	Action
1	Top	Deep Sea Green Color	20.0	3	Quantity <input type="text" value="0"/>	Add to Order
2	Dress	Black Color	50.0	2	Quantity <input type="text" value="0"/>	Add to Order
3	Tunicsssss	Plum Color	30.0	5	Quantity <input type="text" value="0"/>	Add to Order
4	Capri	Black	10.0	5	Quantity <input type="text" value="0"/>	Add to Order
5	Shirt	Coral	30.0	6	Quantity <input type="text" value="0"/>	Add to Order
8	Top	Deep Sea Green Color	20.0	3	Quantity <input type="text" value="0"/>	Add to Order

Welcome, tanmaya gajare

Following are the existing orders:

Order ID	Product Details	Order Date	Order Time	Order Quantity
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19. Sample Validation on entering incorrect password

• Bad Login

Please sign in

Username:

tanmay

Password:

Login

[Sign Up as a Designer](#)
[Sign Up as a Customer](#)

Please sign in

Username:	<input type="text" value="tanmay"/>
Password:	<input type="password"/>
Password required	
<input type="button" value="Login"/>	Sign Up as a Designer Sign Up as a Customer

Expected Results:

- The only issue in my project is that when the designer adds a new product an additional blank row also gets added in the Products table. Rest all works as expected
- Please use the designer credentials as *designer1* and *desi* for testing the designer role
- Please use the customer credentials as *cust1* and *cust* for testing the customer role