EAD PROJECT

SP IT ONLINE WEB STORE

DONE BY: POON HAO JUN (1448920)

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FROM: DISM/FT/2A/01

LECTURER: MR LOW JIN KIAT

DATE: 10 AUG 2015

Table of Contents

TERM 1

IN THIS SECTION – THE BASIC PUBLIC FEATURES OF THE WEBSITE WILL BE COVERED, AS WELL AS THE VARIOUS CONTROLS THAT AN ADMINISTRATOR IS ABLE TO PERFORM.

Submitting a comment (indProductPage.jsp)

processComment.jsp

Commenting results (processComment.jsp)

Insert Comment

Your 1 comment(s) has been successfully sent

Back

Submit   **Reset**

Name:	Alex123
Product:	N56VB-S4041H-16GB
Ratings:	4 Star
Comment:	This product is very good!
Date/Time:	2015-08-08 14:46:45

Add Product (insertproduct.jsp)

Admin wants to insert a new product:

Insert Product

Category:	Select Category
Brand:	Enter Brand...
Product Name:	Enter Product Name...
Description:	Enter Description...
Specification Info 1:	Enter Specification...
Specification Info 2:	Enter Specification...
Specification Info 3:	Enter Specification...
Specification Info 4:	Enter Specification...
Price:	Enter Price...
Image Path:	Enter Image Path...
Quantity:	Enter Quantity...

Insert   **Reset**

Admin types in its specifications, etc. :

Insert Product

Cellphones

Nokia

Nokia 180

Durable and long lasting

Waterproof

Long lasting battery

Good Camera

Magnetic

188

images/Nokia.jpg

20

Insert **Reset**

processinsertPro.jsp

Insert Product

1 record(s) inserted successful

Back

Add Product Results

Samsung Galaxy Note 4

Samsung Next Gen Smartphone

Dimension: 153.5 X 78.6 X 8.5 mm / 176g

Memory: 3GB RAM + 32GB internal memory. Supports microSD up to 128GB

Battery: 3220mAh Fast Charging

S Pen: 15g, Hovering 15mm, Pressure level 2,048

$ 900

View

Nokia Nokia 180

Durable and long-lasting

Waterproof

Long lasting battery

Good Camera

Magnetic

$ 188
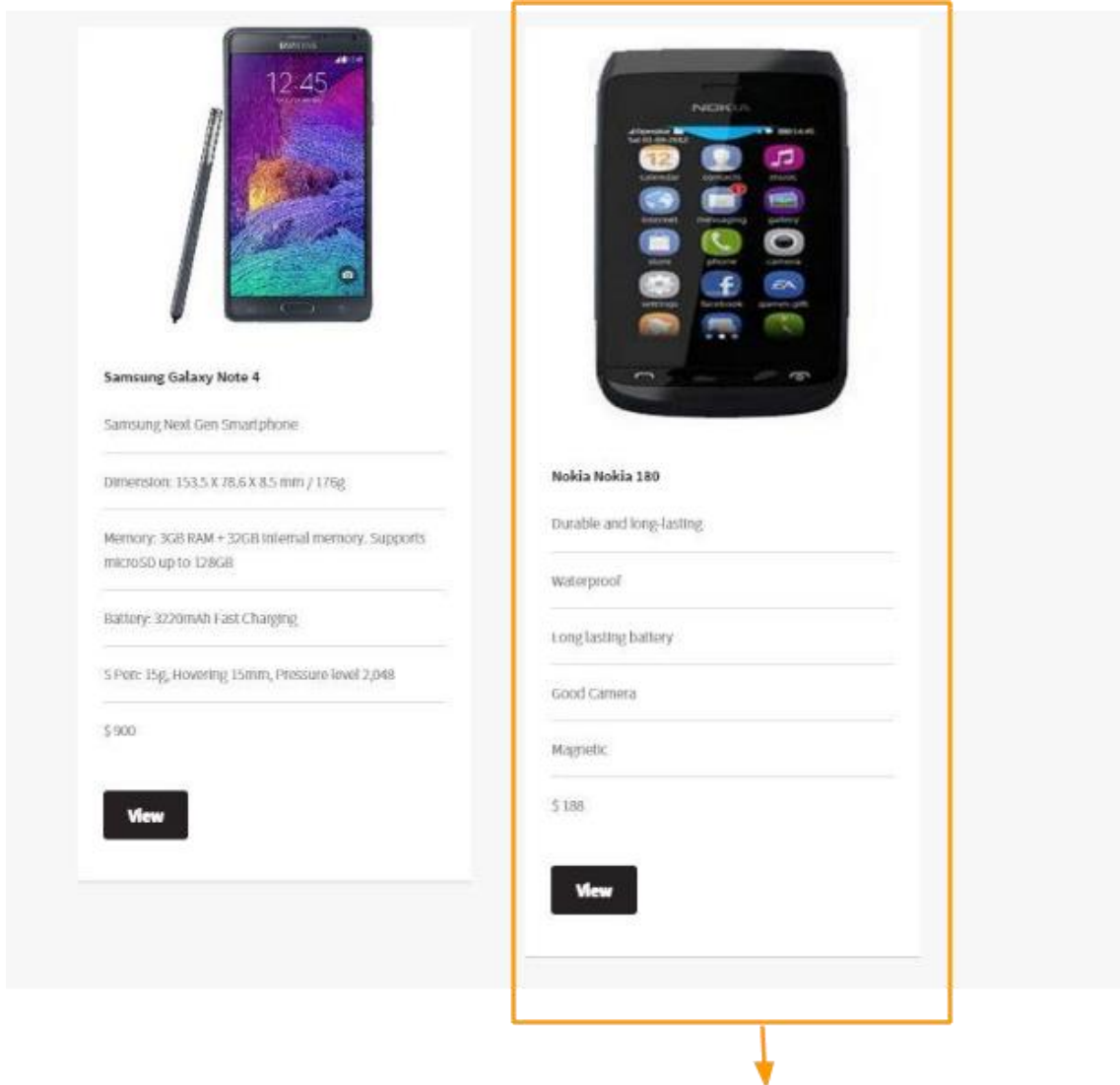
View

The specs that were previously filled, as well as the image have all appeared in the products page for cellphones as well.

The Product can be viewed individually too

Nokia Nokia 180

Nokia Nokia 180

Durable and long lasting

Waterproof

Long lasting battery

Good Camera

Magnetic

$ 188

Add to Cart | I

Back

Comment

Ratings: | Choose Ratings
Name: | Enter Name...
Comment: | Enter Description...
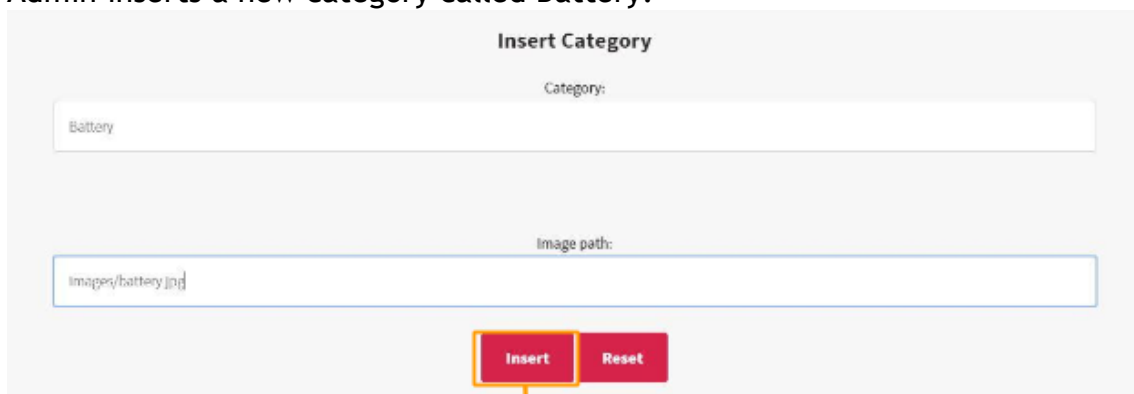
Submit **Reset**

Add Category (insertCategory.jsp)
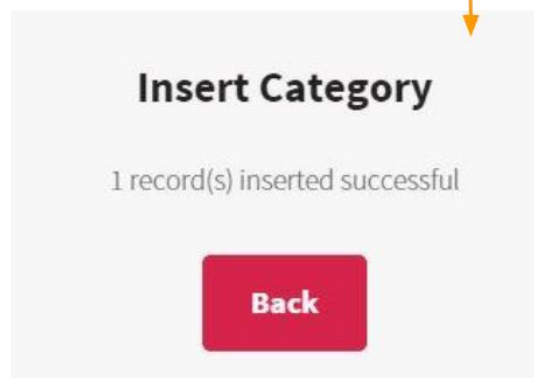
The navigation bar currently:

Admin inserts a new category called Battery:

processinsCategory.jsp

Add Category Results

New category "Battery" has been added to the navigation bar!

In the products page (product.jsp), battery category will appear too, with the image the administrator had inserted:

Mouse and Keyboard

Battery
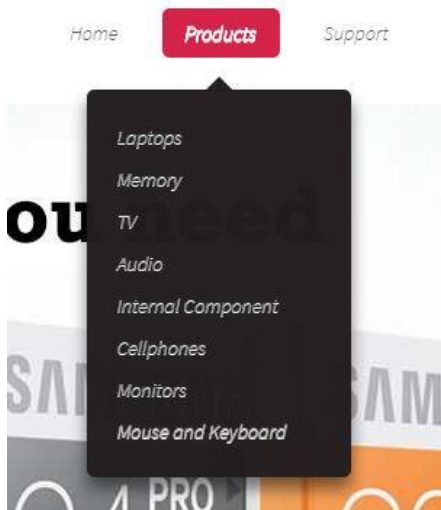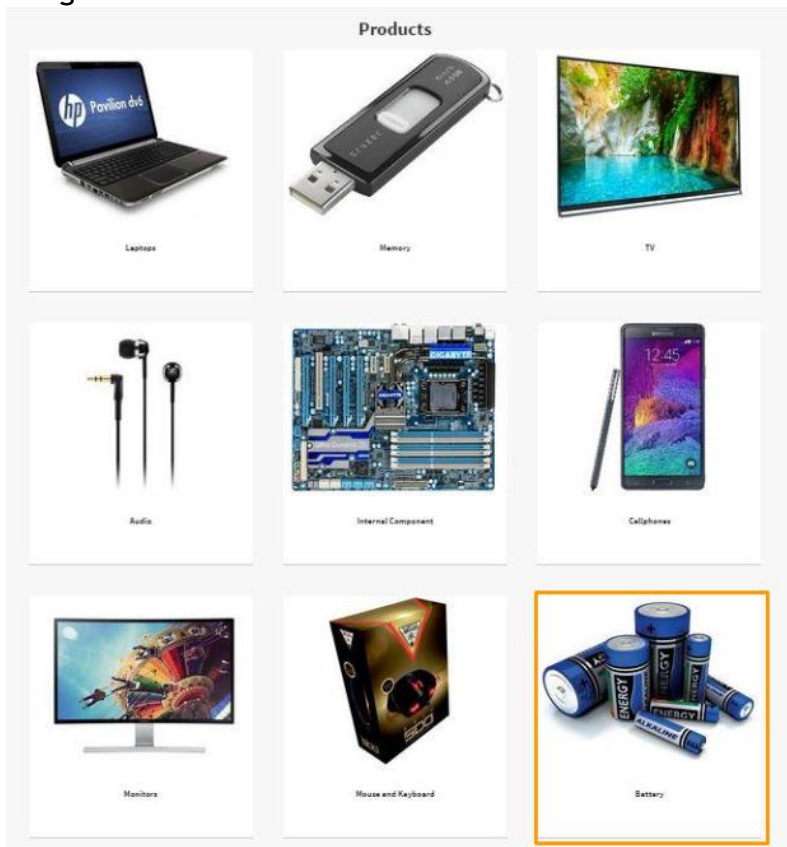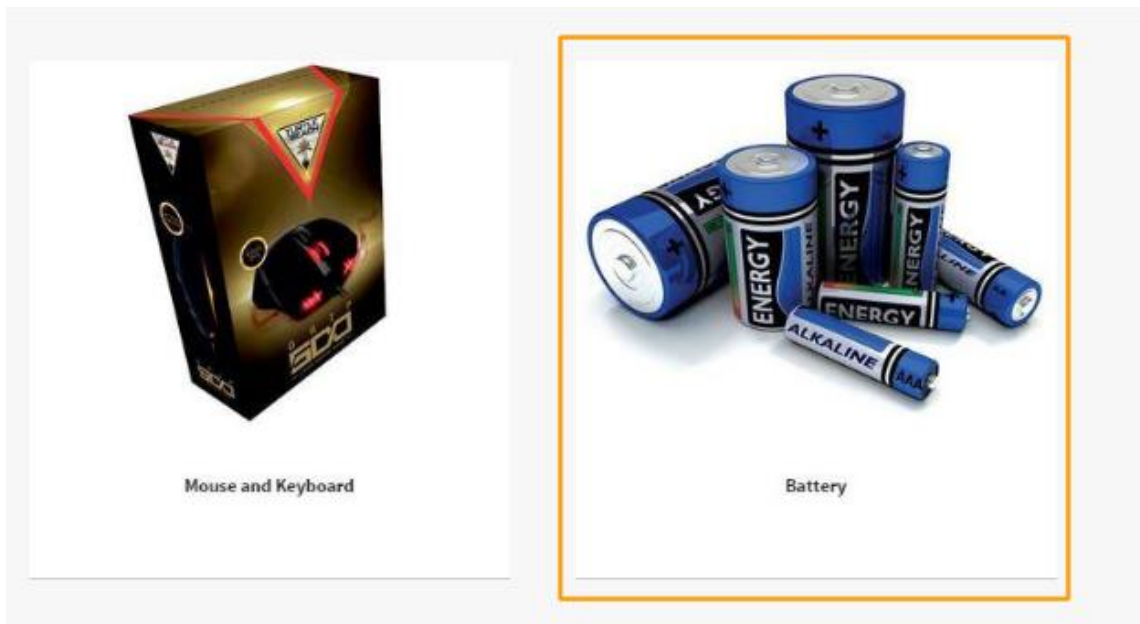
When the administrator wishes to insert a new product, there will be the new category for him to select as well, depending on the category of the product:

Insert Product

Category: Select Category

                     Select Category
                     Laptops
Brand: Memory
                     TV
                     Audio
                     Internal Component
Product Name: Cellphones
                     Monitors
                     Mouse and Keyboard
                     Battery
Description: Enter Description

Search Product (searchproduct.jsp)

Admin wishes to search for Samsung products:

Search Results (delupproduct.jsp)

The Results will show all the products that contain "samsung" in it, whatever the category of the product.

Delete Product (deleteProduct.jsp)

Using the search engine to find the Nokia phone that was earlier inserted, the Nokia phone can now be deleted as well:

Price	Image Path	Actions
$ 188	images/Nokia.jpg	**Delete** **Update**

deleteProduct.jsp

Delete Product

1 record(s) deleted successful

Back
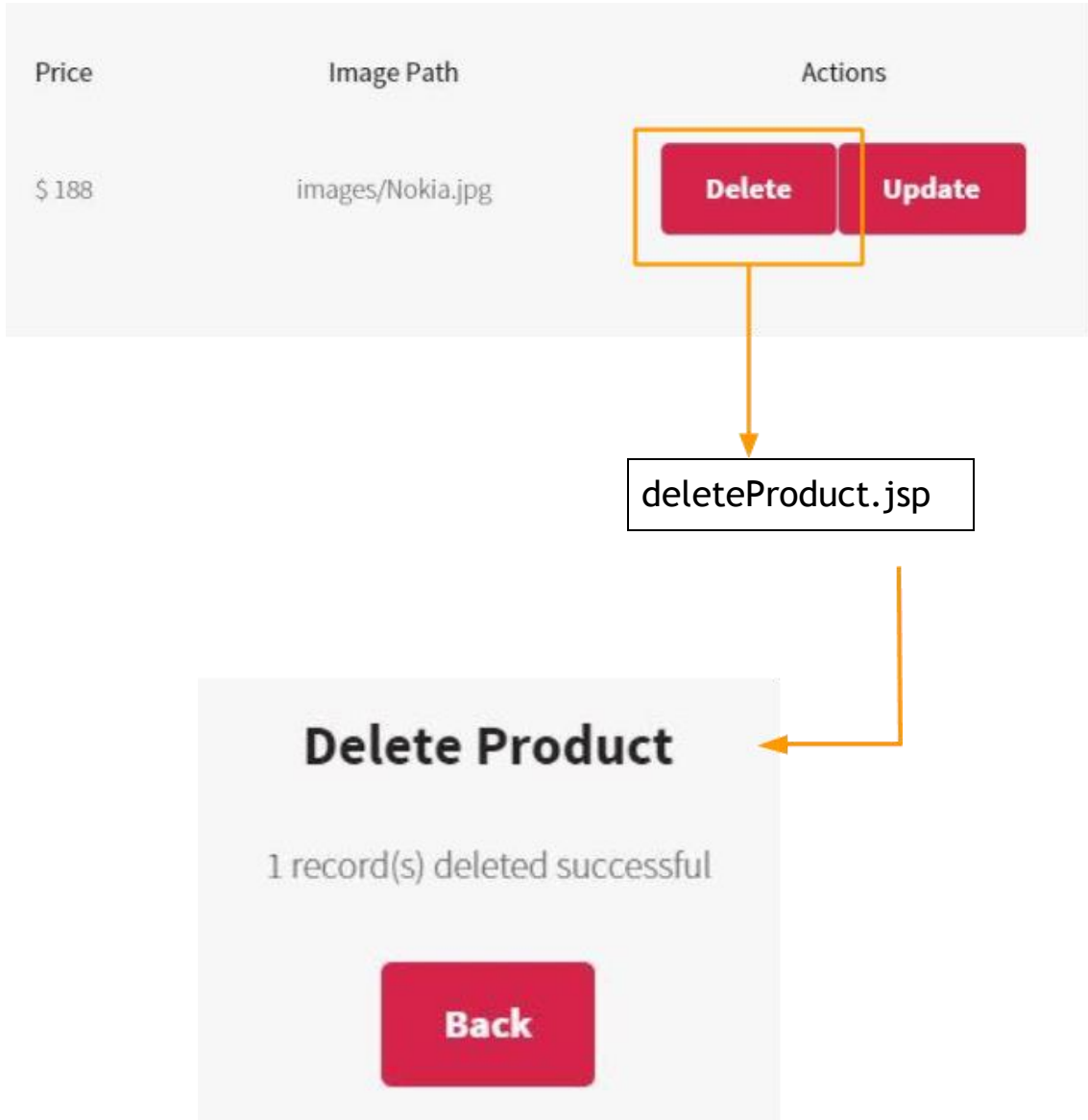
Delete Product Results

The Nokia Phone no longer exists here.

Using the search engine, the Nokia phone can also no longer be found:

Update Product (updateProduct.jsp)

The administrator will update the samsung galaxy note 4:

Category	Product Name	Brand	Spec	Price	Image Path	Actions	
Cellphones	Galaxy Note 4	Samsung	Dimension: 153.5 X 78.6 X 8.5 mm / 176g, Memory: 3GB RAM + 32GB Internal memory, Supports microSD up to 128GB, Battery: 3220mAh Fast Charging, S Pen: 15g, Hovering 15mm, Pressure level 2,048	$ 900	images/hp_samsung_galaxy_note4.jpg	Delete	Update

updateProduct.jsp

Update Product

Category:	Cellphones
Brand:	Samsung
Product Name:	Galaxy Note 4
Description:	Samsung Next Gen Smartphone
Specification Info 1:	Dimension: 153.5 X 78.6 X 8.5 mm / 176g
Specification Info 2:	Memory: 3GB RAM + 32GB Internal memory, Supports microSD up to 128GB
Specification Info 3:	Battery: 3220mAh Fast Charging
Specification Info 4:	S Pen: 15g, Hovering 15mm, Pressure level 2,048
Price:	900
Image Path:	images/hp_samsung_galaxy_note4.jpg

Update   Reset

The administrator shall change Samsung Galaxy Note 4 to LG Life 20:

Brand: LG

Product Name: Life 20

Update   **Reset**

Update Product

1 record(s) updated successful

Back
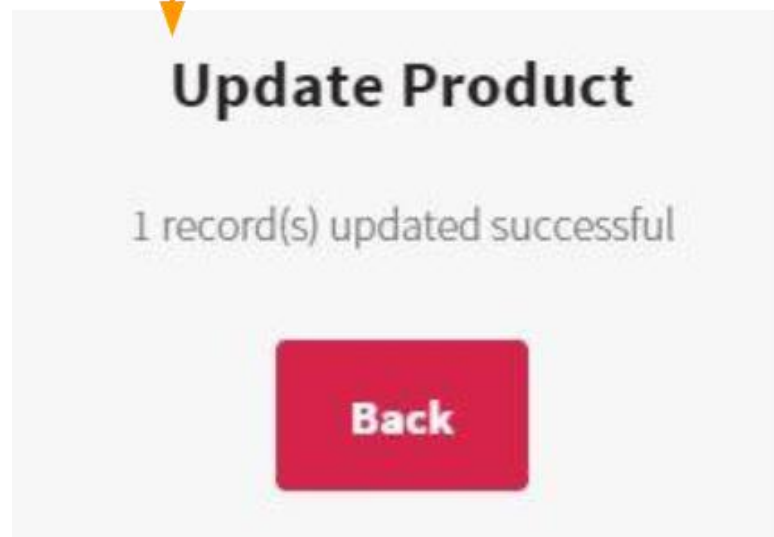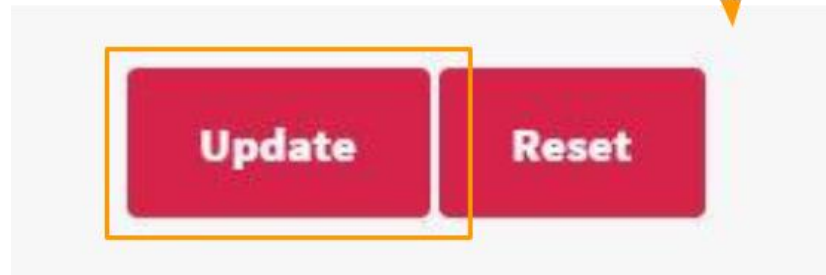
Update Results

When the administrator searches "samsung" on the search engine, there is one less record, which is due to the update on the Galaxy Note 4:

Search Engine

Search Products/Category/Brand/Price/Spec:

samsung

Search

Category	Product Name	Brand	Spec	Price	Image Path
Memory	M3 Portable Hard Drive	Samsung	Dimension: 82x17.5x112 (WxHxD), SafetyKey protection for your data, Capacity: 1TB, Various colour to choose	$ 90	images/mem_samsung_1TB_M3.jpg
Monitors	27" Minimalist FHD LED Monitor	Samsung	Viewing Angle (H/V): 178°/178°, Contrast Ratio: 3,000:1, Response Time: 4(GTG) ms, Various colour to choose	$ 499	images/mon_Minimalist_FHD.jpg
TV	55 UHD 4K Flat Smart TV	Samsung	Resolution: 3840 x 2160, Screen Size: 55", Ultra Clear Panel: Yes, Various colour to choose	$ 2899	images/tv_flat_smart_55_uhd.jpg

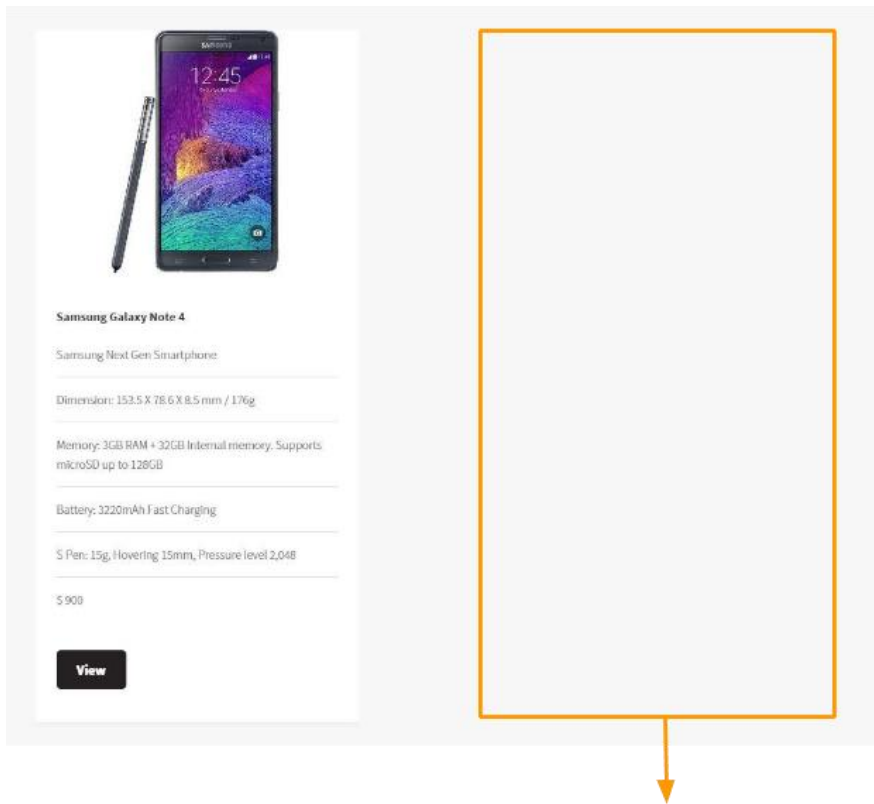Searching for "LG", however, will show the phone that was updated:

Search Products/Category/Brand/Price/Spec:

LG

Search

Category	Product Name	Brand	Spec	Price	Image Path	Actions
Cellphones	Life 20	LG	Dimension: 153.5 X 78.6 X 8.5 mm / 176g, Memory: 3GB RAM + 32GB Internal memory. Supports microSD up to 128GB, Battery: 3220mAh Fast Charging, S Pen: 15g, Hovering 15mm, Pressure level 2,048	$ 900	images/hp_samsung_galaxy_note4.jpg	**Delete** **Update**

Do take note of the image path, which states "galaxy note 4".

In the cellphones section, the phone's name can be seen to be changed to "LG Life 20":

LG Life 20

Samsung Next Gen Smartphone

Dimension: 153.5 X 78.6 X 8.5 mm / 176g

Memory: 3GB RAM + 32GB internal memory. Supports microSD up to 128GB

Battery: 3220mAh Fast Charging

S Pen: 15g, Hovering 15mm, Pressure level 2,048

$ 900

View

View Comments (viewcomments.jsp)

The administrator searches for comments for "samsung" products:

Search Engine

Search Comments by Brand/Category/Products/Stars/Reviewer:

samsung

Search
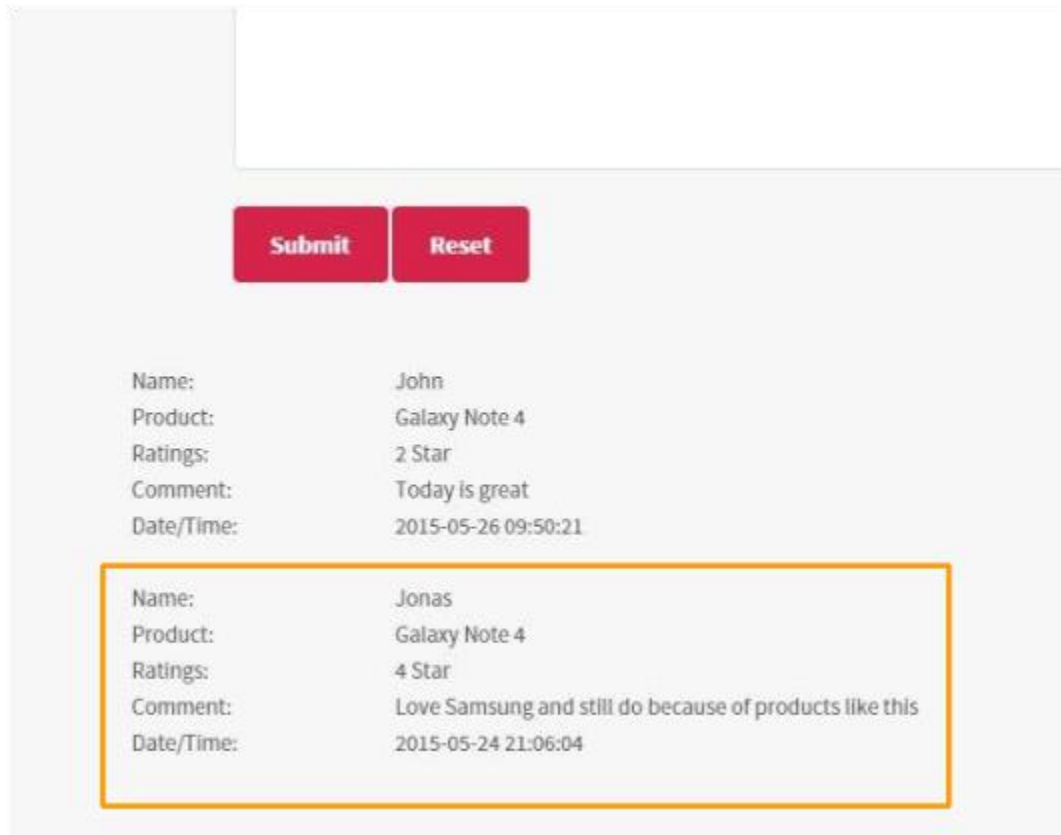
(delviewcomment.jsp)

Comment	Product Name	Category	Ratings	Date/Time
I can store anything in it!! AMAZING!!	M3 Portable Hard Drive	Memory	5 Star	2015-05-24 20:58:55
Watching Movies have never felt so amazing. The feeling this TV gives simply amazes me!!	55 UHD 4K Flat Smart TV	TV	5 Star	2015-05-24 21:01:22
Love Samsung and still do because of products like this	Galaxy Note 4	Cellphones	4 Star	2015-05-24 21:06:04
Today is great	Galaxy Note 4	Cellphones	2 Star	2015-05-26 09:50:21
Works great, feels good!	27" Minimalist FHD LED Monitor	Monitors	4 Star	2015-05-24 21:08:18

Comments shown are only meant for samsung products.

Delete Comments (deleteComment.jsp)
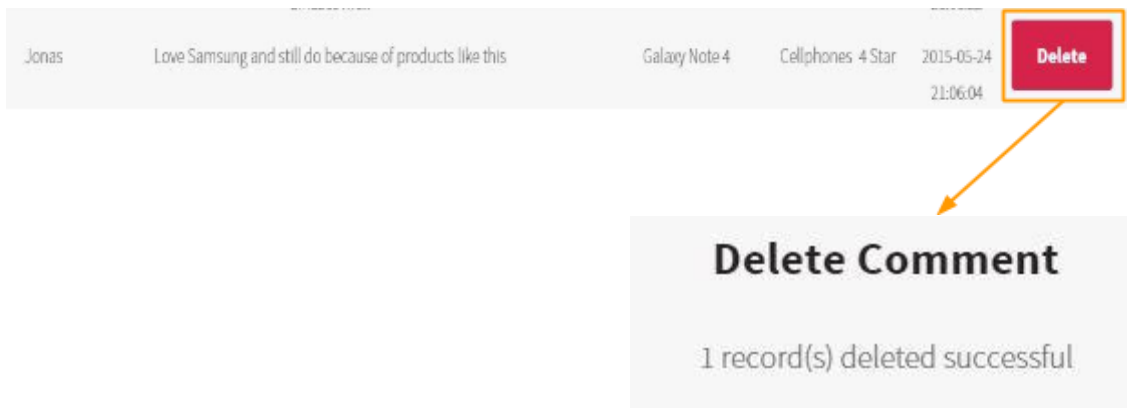
The administrator will delete this comment:

The administrator finds that comment using the viewing comments search engine:

Delete Comments Results

The comment by Jonas can no longer be viewed:

Name	Comment	Product Name	Category	Ratings	Date/Time
Jon123	I can store anything in it!! AMAZING!!	M3 Portable Hard Drive	Memory	5 Star	2015-05-24 20:58:55
Anon	Watching Movies have never felt so amazing. The feeling this TV gives simply amazes me!!	55 UHD 4K Flat Smart TV	TV	5 Star	2015-05-24 21:01:22
John	Today is great	Galaxy Note 4	Cellphones	2 Star	2015-05-26 09:50:21
Ethan	Works great, feels good!	27" Minimalist FHD LED Monitor	Monitors	4 Star	2015-05-24 21:08:18

In the individual page of the Galaxy Note 4, his comment is also no longer visible:

Name:	John
Product:	Galaxy Note 4
Ratings:	2 Star
Comment:	Today is great
Date/Time:	2015-05-26 09:50:21

MEMBER A

IN THIS SECTION – IT WILL BE SHOWN HOW A POTENTIAL CUSTOMER MAKES AN ONLINE PURCHASE.

Add Product to Cart (indProductPage.jsp)

A customer, who must be a member, will put the quantity of the product he wishes to add to cart:

add2CartController

View Product from Cart (displayCartController)

```
┌─────────────────────┐
│ add2CartController  │
└─────────────────────┘
          │
          ▼
┌─────────────────────┐
│ displayCartController│
└─────────────────────┘
          │
          │
          ▼
```

The product added to the cart will be displayed, along with the quantity the customer wants:

Your Cart

Product Name:	Price:	Quantity:	Action		Total:
Asus N56VB-S4041H-16GB	$1299	1	Update	Delete	$1299
HP N56VB-S4041H-16GB	$1399	2	Update	Delete	$2798
Samsung Galaxy Note 4	$900	4	Update	Delete	$3600

Update Product in Cart (upCartController)
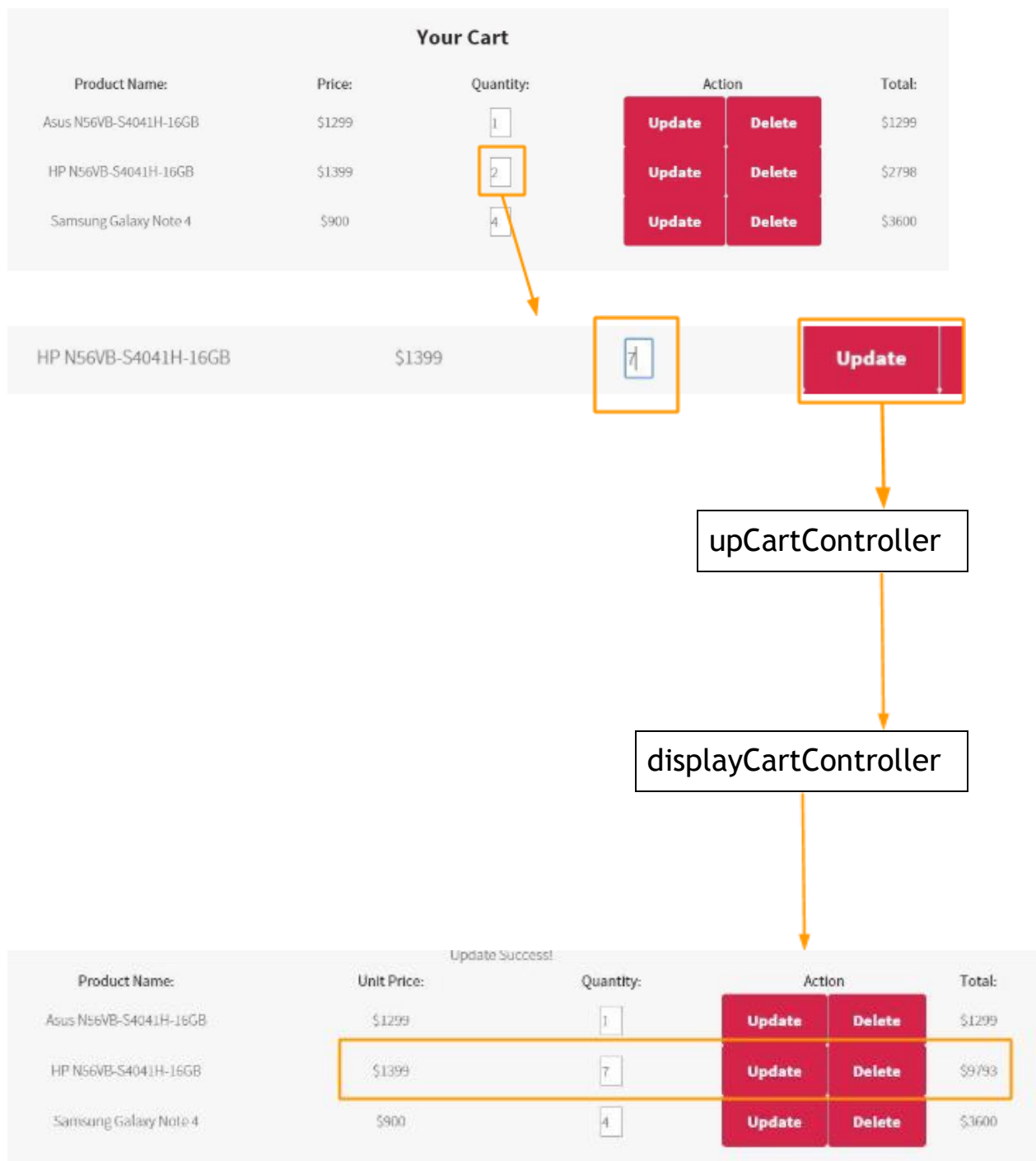
Product's quantity will be updated alongside its total price value.

Delete Product from Cart (delCartController)
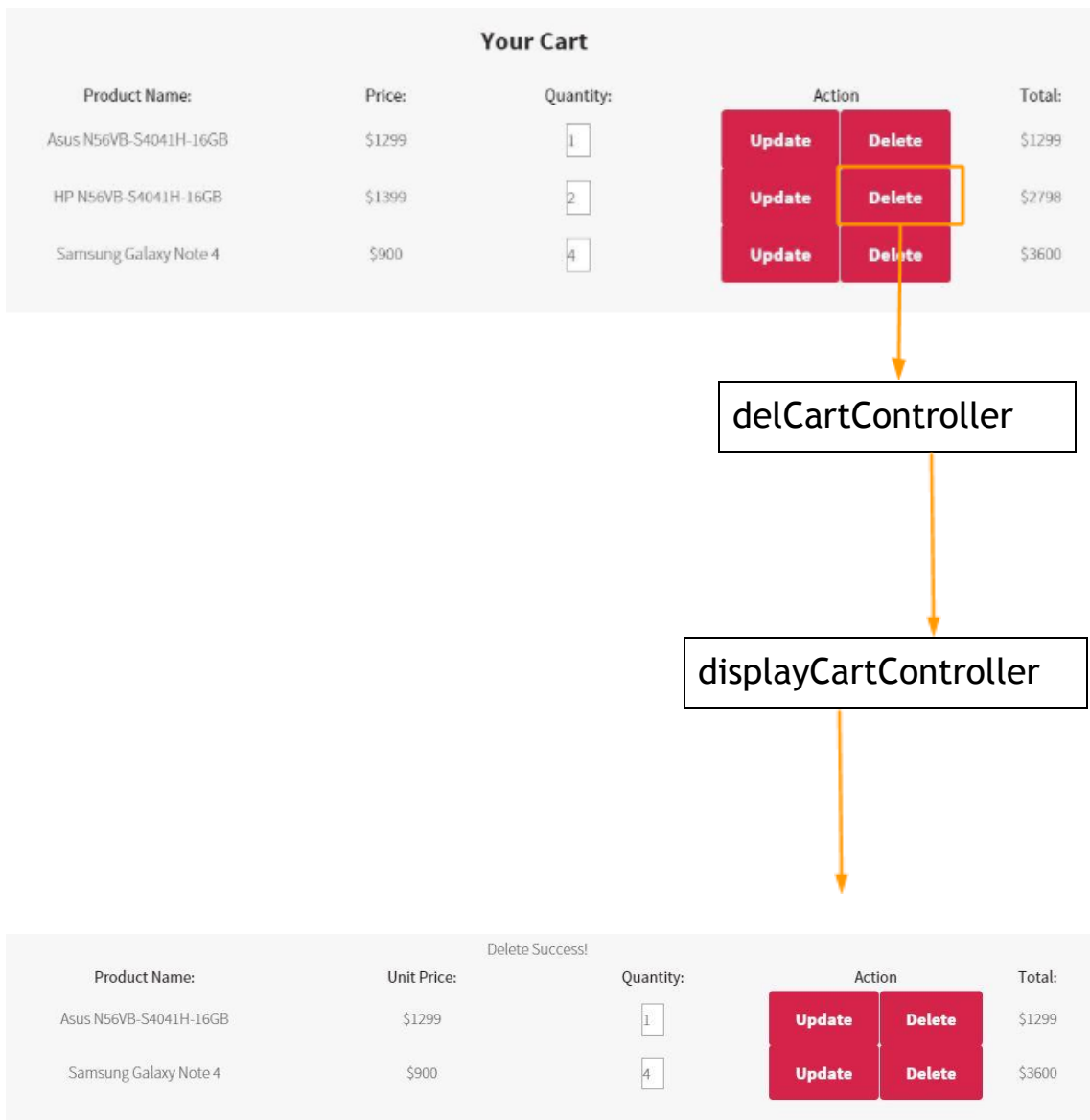
The product that was deleted can no longer be found in the shopping cart.

Show Order (placeorder.jsp)

Product Name:	Unit Price:	Quantity:	Action		Total:
Asus N56VB-S4041H-16GB	$1299	1	Update	Delete	$1299
Samsung Galaxy Note 4	$900	4	Update	Delete	$3600

SUB TOTAL: $4899

Summary

placeOrder.jsp

Place Order

Product Name:	Unit Price:	Quantity:	Total:
Asus N56VB-S4041H-16GB	$1299	1	$1299
Samsung Galaxy Note 4	$900	4	$3600

SUB TOTAL: $4899

Confirm Order (recentorderController)

Place Order

Product Name:	Unit Price:	Quantity:	Total:
Asus N56VB-S4041H-16GB	$1299	1	$1299
Samsung Galaxy Note 4	$900	4	$3600

SUB TOTAL: $4899

Payment Info

Credit Card No.:	123456788
Credit Card Name:	Jennifer Wang
Credit Card Type:	Visa
Expiry Date:	6
	2016
CVC No.:	548

[Continue]

placeorderController

Place Order

Order Success!

Product Name:	Price:	Quantity:	Total:
Asus N56VB-S4041H-16GB	$1299	1	$1299
Samsung Galaxy Note 4	$900	4	$3600

SUB TOTAL: $4899
DISCOUNT: $15
Total: $4884

Voucher:	UF52GW

Payment Info

Credit Card No.:	123456789
Credit Card Name:	Jennifer Wang
Credit Card Type:	Visa
Expiry Date:	6 / 2016

[Finish]

Recent Order (recentorderController)

Place Order

Order Success!

Product Name:	Price:	Quantity:	Total:
Asus N56VB-S4041H-16GB	$1299	1	$1299
Samsung Galaxy Note 4	$900	4	$3600

SUB TOTAL: $4899
DISCOUNT: $15
Total: $4884

Voucher: UF52GW

Payment Info

Credit Card No.: 123456789
Credit Card Name: Jennifer Wang
Credit Card Type: Visa
Expiry Date: 6 / 2016

Finish

recentorderController

Transaction ID:	Credit Card Name:	Credit Card No.:	Credit Card Type:	Total:	Date Purchased:
32	Sly Poon	9674827198341674	JCB	$3943	2015-08-08 22:04:58

Product Name:	Unit Price:	Quantity:	Total:
Samsung Galaxy Note 4	$900	1	$900
SanDisk Cruzer Micro USB flash drive	$20	1	$20
Samsung 55 UHD 4K Flat Smart TV	$2899	1	$2899
Turtle Beach GRIP 500 Laser Gaming Mouse	$139	1	$139

Voucher Code: 132371
DISCOUNT: $15

Transaction ID:	Credit Card Name:	Credit Card No.:	Credit Card Type:	Total:	Date Purchased:
33	Jennifer Wang	123456789	Visa	$4884	2015-08-09 00:04:27

Product Name:	Unit Price:	Quantity:	Total:
Asus N56VB-S4041H-16GB	$1299	1	$1299
Samsung Galaxy Note 4	$900	4	$3600

Voucher Code: UF52GW
DISCOUNT: $15

The recent order by Jennifer Wang

MEMBER B

_____

IN THIS SECTION – THE LOGIN FEATURES OF THE WEBSITE WILL BE COVERED, AS WELL AS THE VIEWING OF THE SALES REPORT. HOW MEMBERS CAN CREATE THEIR ACCOUNTS AND HOW THEY CAN NAVIGATE THROUGH THE WEBSITE WILL ALSO BE TOUCHED ON.

Register Member (createMember.jsp)

The form that a potential member has to fill:

Ability to check for weak, medium or strong passwords by clicking the check button beside the password field:

Password strength Strong!

Register Account

Email: star_wars1997@hotmail.com

Password: •••••••• Check

Name: Fernando Torres

Gender: ● Male ○ Female

Date of Birth: 1 January 1993

Mailing Address: 500 Dover Road #01 11

Contact No.: 91234567

Subscribe Newsletter: ● Yes ○ No

Create Reset

RegisterController

Please proceed to login!

Login Page

Enter your login ID!

Enter your password!

Login Role (login.jsp)
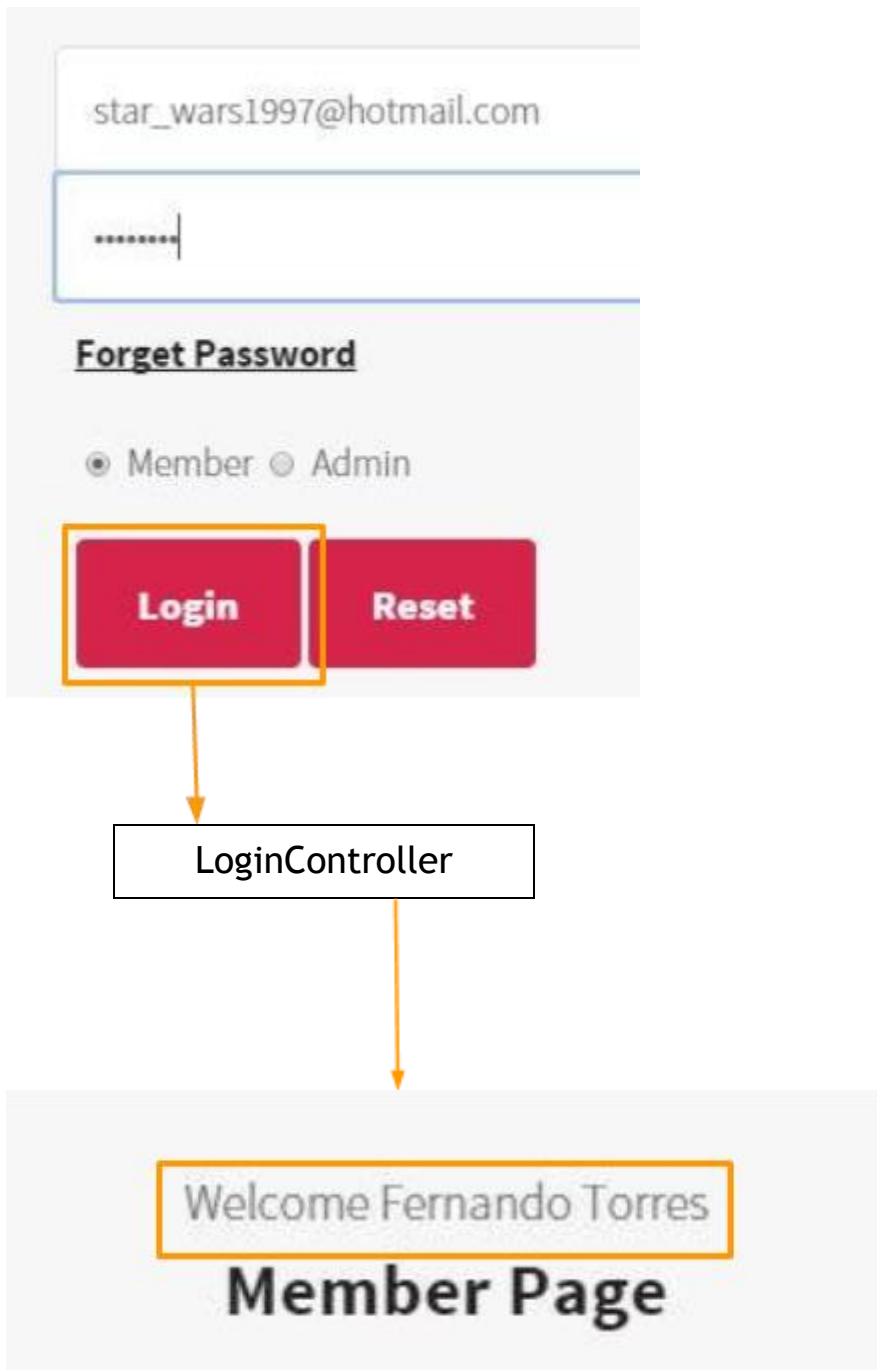
The name that the member entered earlier appears on the member page as well.

Update Member Profile (updateProfile.jsp)

Member Sly Poon intends to change his name:

updateProfileController

updateProfileController

Update Success!

Register Account

Email: slypoon@gmail.com

Password: ••••••••   **Check**

Name: Handsome Boy 92

Member Page no longer welcomes "Sly Poon", but welcomes "Handsome Boy 92" instead:

Welcome Handsome Boy 92

Member Page

View Sales Report (salesreport.jsp)

Login into admin to see the sales report

| View Category | Sales Report |

salesreport.jsp

Admin can select their choice for monthly report or yearly report

Sales Report

| ⦿ Monthly Report | Month | 2015 |
| ⦾ Yearly Report | Year | |

View Report

salesreportController

viewsalesreport.jsp

Monthly Report

Select successful!

Product Name	Quantity Sold
Sonic Gear Armaggeddon A3	13
Turtle Beach GRIP 500 Laser Gaming Mouse	9
HP N56VB-S4041H-16GB	3
SanDisk Cruzer Micro USB flash drive	3
Samsung M3 Portable Hard Drive	3
Thermaltake Commander	3
Samsung 55 UHD 4K Flat Smart TV	2
Samsung Galaxy Note 4	2
Samsung 27" Minimalist FHD LED Monitor	2
Sennheiser CX 1.00	2

Send Report

Back

or

Yearly Report

Select successful!

Product Name	Quantity Sold
Armaggeddon A3	13
GRIP 500 Laser Gaming Mouse	9
Galaxy Note 4	6
CX 1.00	5
Vengeance Pro Series 32GB DDR3 DRAM	5
N56VB-S4041H-16GB	3
Commander	3
M3 Portable Hard Drive	3
Cruzer Micro USB flash drive	3
55 UHD 4K Flat Smart TV	2

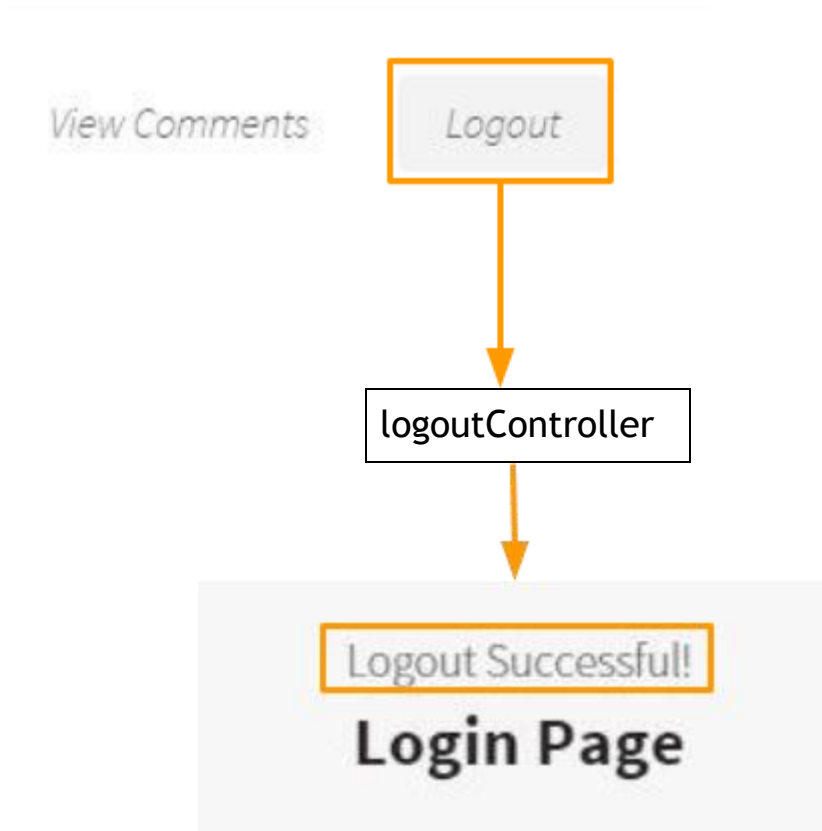**Send Report**

Back

If the admin would like to send a report to it, it will call the sendreport Controller, or if admin wishes to go back, it will redirect admin back to salesreport.jsp.

Log Out (logoutController)

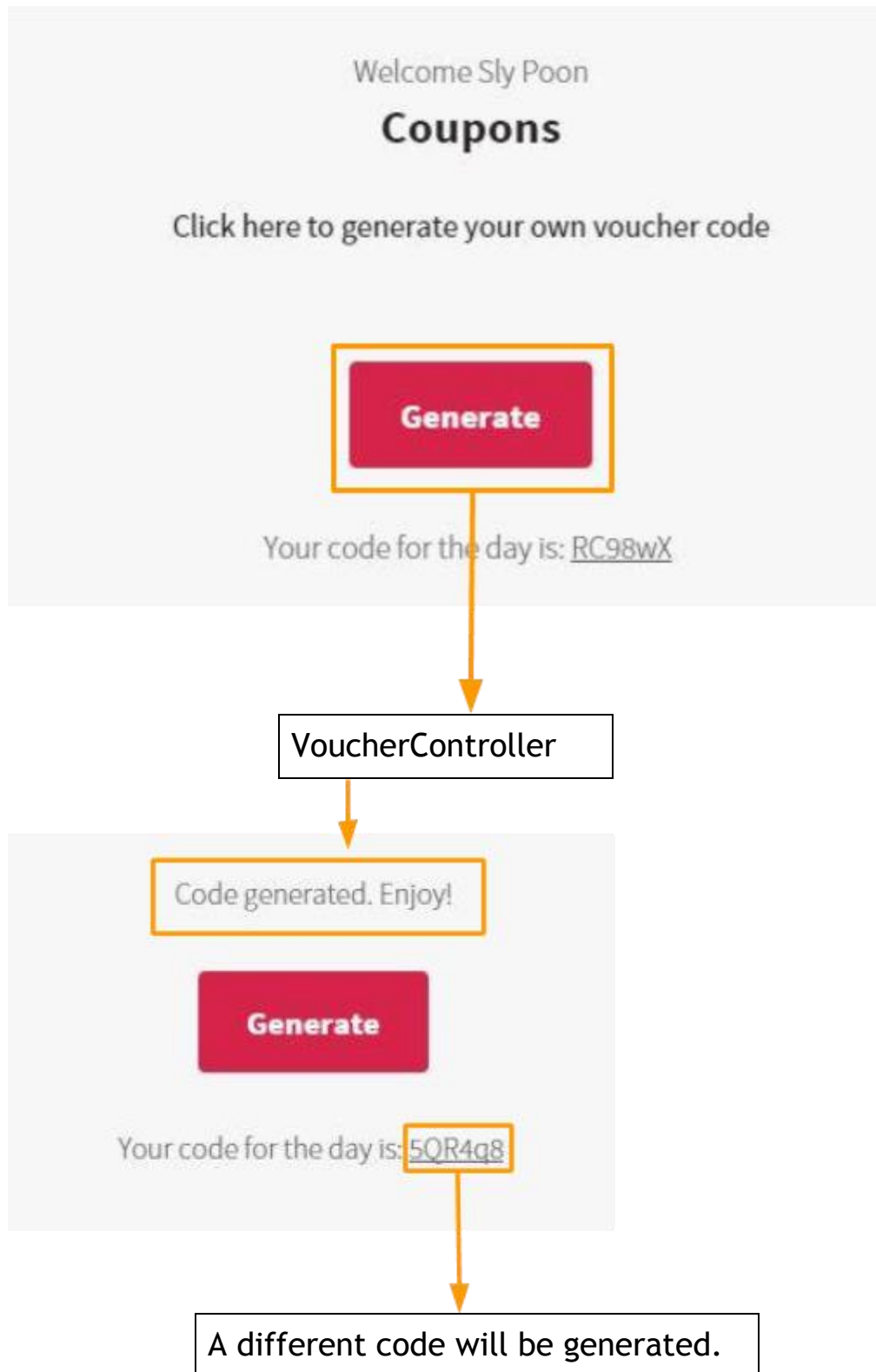

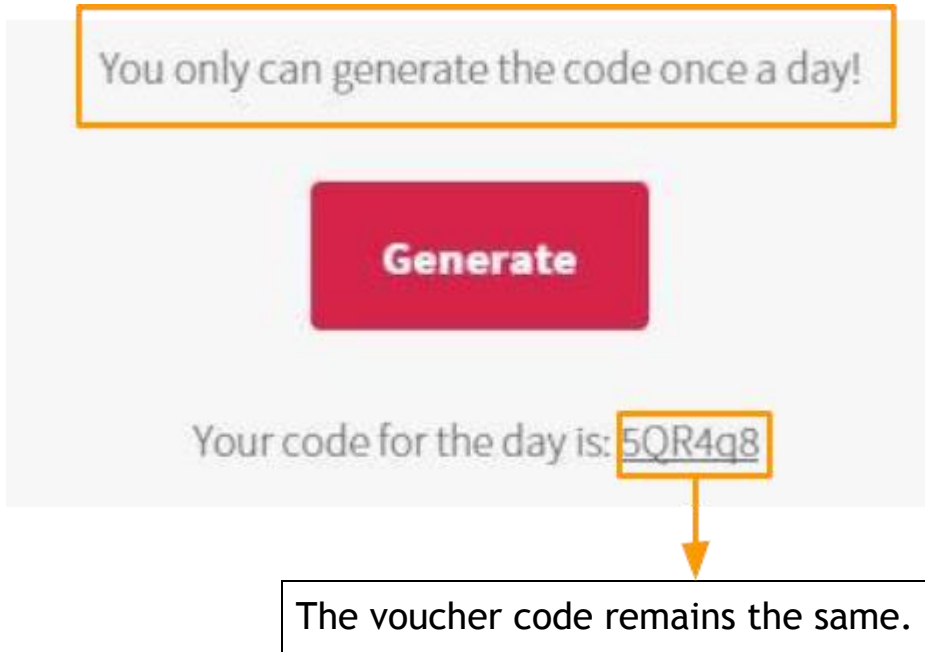Redirect to login.jsp will display the "Logout Successful" message.

ADVANCE FEATURES

_____

IN THIS SECTION – THE VARIOUS
ADDITIONAL FEATURES TO ENHANCE
THE MEMBER EXPERIENCE IN THE WEB
STORE AND THE SECURITY OF THE
PASSWORD WILL BE COVERED.

Generate Discount Code (coupons.jsp)

Welcome Sly Poon

Coupons

Click here to generate your own voucher code

Generate

Your code for the day is: RC98wX

VoucherController

Code generated. Enjoy!

Generate

Your code for the day is: 5QR4q8

A different code will be generated.

In the scenario where the customer tries to generate the code a second time in one day:

You only can generate the code once a day!

Generate

Your code for the day is: 5QR4q8

The voucher code remains the same.
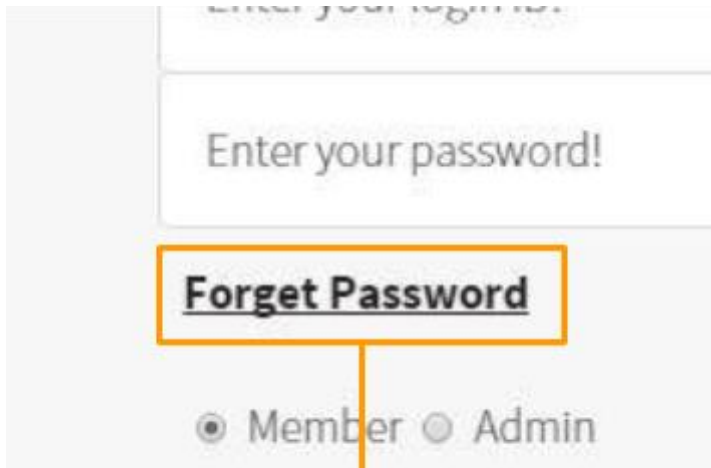
Encrypt and Decrypt Password (mixSmash.java)

Encrypting of password starts when a member signs up for an account in the web store. The plain text password will be encrypted using DES algorithm in the mixSmash.java encryption method in the security package. The key and IV bytes is stored in the base.java.

Instead of storing the encrypted password in password attribute at the member table in the database, it stores the encrypted password in the crypt table and converts the encrypted password into a string, and stores it with the member details which doesn't match the actual password of the member input.

During member input of their credentials in the login.jsp, their emails will be matched in the crypt table. If matched, it will return the encrypted password, and pass the encrypted password to the decrypt method in mixSmash.java, converting it back into plaintext and match it with the member input password.

Same concept for the forgetting of password, when the member enters their email address, the password will be decrypted into plaintext from the crypt table in the database, and send it to the member's email address as stated in the database.
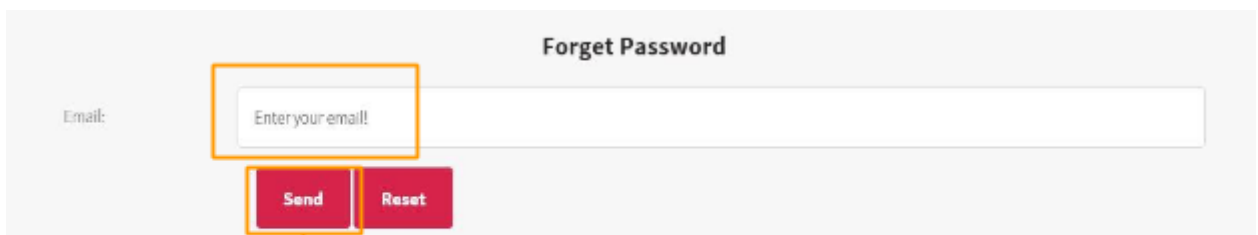
Forget Password (forgetpass.jsp)

forgetpass.jsp

Member is required to enter his email before the password can be sent to him.

forgetPassController

forgetPassController

Password sent, check your email!

Forget Password

When the member checks their email:

com   ⊕ New   Reply |✓   Delete   Archive   Junk |✓   Sweep   Move to ✓   Categories ✓   ⋯

Welcome to SPIT! – Recover Password

onestopspit@gmail.com (onestopspit@gmail.com)   Add to contacts 4: 55 PM
To: star_wars1997@hotmail.com ⌄

Here is your password: !Q@#WE4r
Thank you for using SPIT your one stop IT Store!
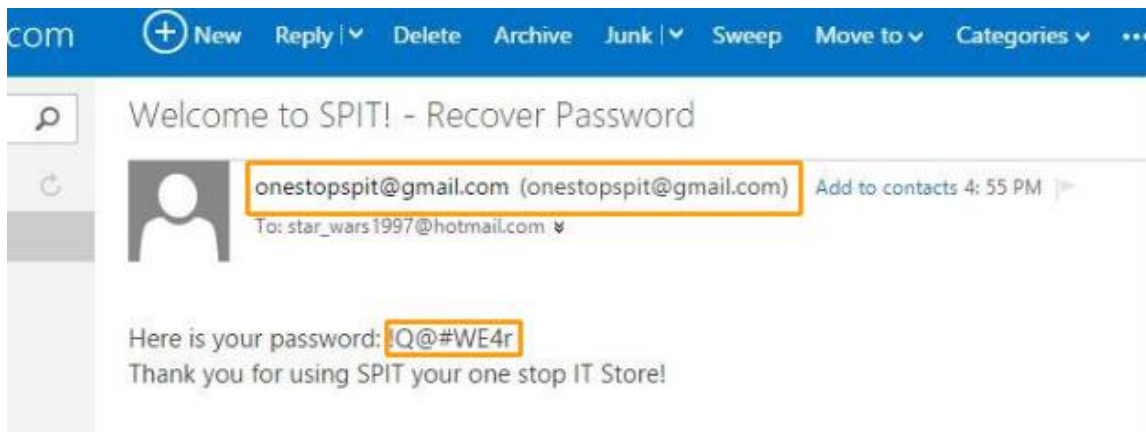
Send Email (SendMail.java)

Email authentication sessions and the sending of message methods will be located in the mail package called SendMail.java.

Similar to setupDBconn, SendMail.java has a method called requestSession that presents the email address and password of our webstore email to the SMTP server to request a session to send an email. For forgetting of passwords, when members enter their email addresses, it will call the method sendforgetPass in the SendMail.java after the password has been decrypted. The content in their email will be the member's decrypted passwords, so that they will be able to log into their account.

When a member first signs up with the webstore, a welcome message will be sent to them. For admin, when they would like to see the sales report and get a copy of the report, it can be also sent to his or her email by clicking on the send report button located at viewsalesreport.jsp.