University Of Kansas

EECS746 Database Systems Fall 2013

Project Report

Online Shopping Website

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Submitted By

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INTRODUCTION

This project deals with designing and implementing an online retail website. The website gives the user the ability to purchase clothes, handbags, and footwear of some top brands and keep a record of their transactions

Main objectives of the website are:

- Customers can register as users and create an online profile to buy products online.
- Session is created for a user, once the user is done shopping he/she can logout
- Update the cart according to the item selected.
- Ability to update items in cart.
- Provides user the various payment options with shipping feature.
- Customer transactions are recorded for later review.
- User can update their profile.

TECHNICAL ASPECTS

- Programming language used is JAVA, JSP, JAVASCRIPT, HTML

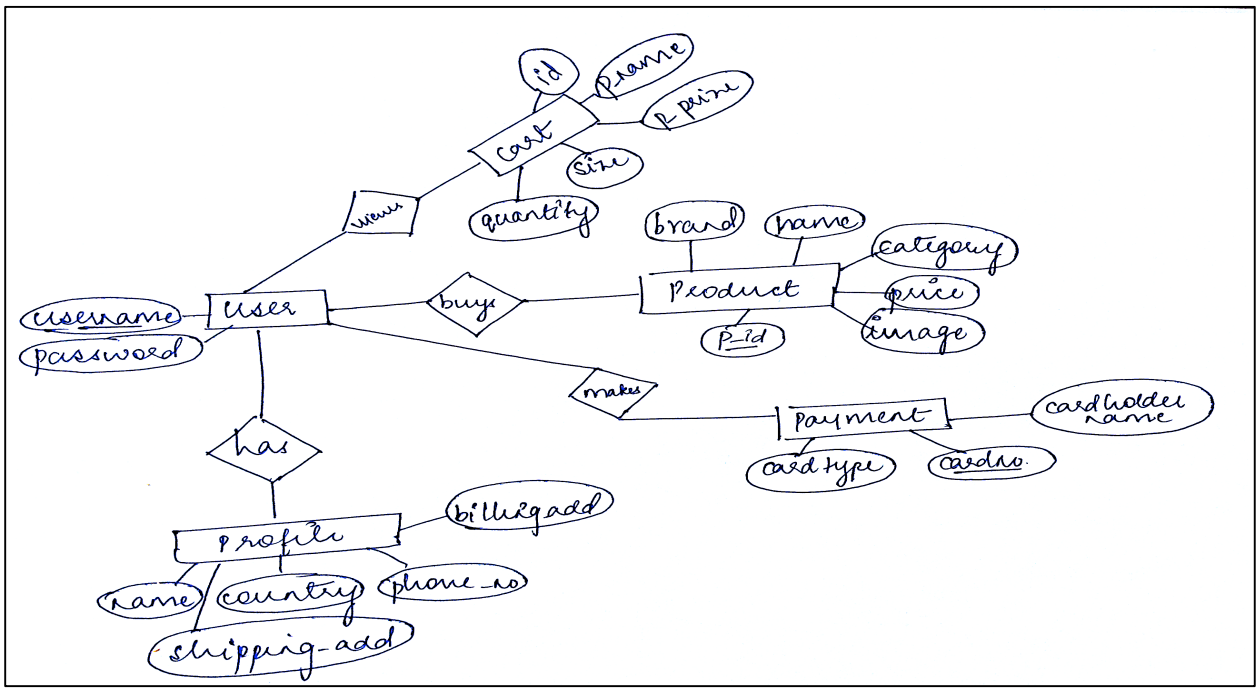
- Apache, an open source web server and servlet container

- The database system used is MySQL which is an open source RDBMS

SYSTEM FLOW CHART

The user can visit the website and browse through it. Incase the user wishes to buy any product he/she needs to registers themselves. Once registered the user needs to login and add the item he/she wants to the cart. Once finished shopping the user proceeds to checkout.

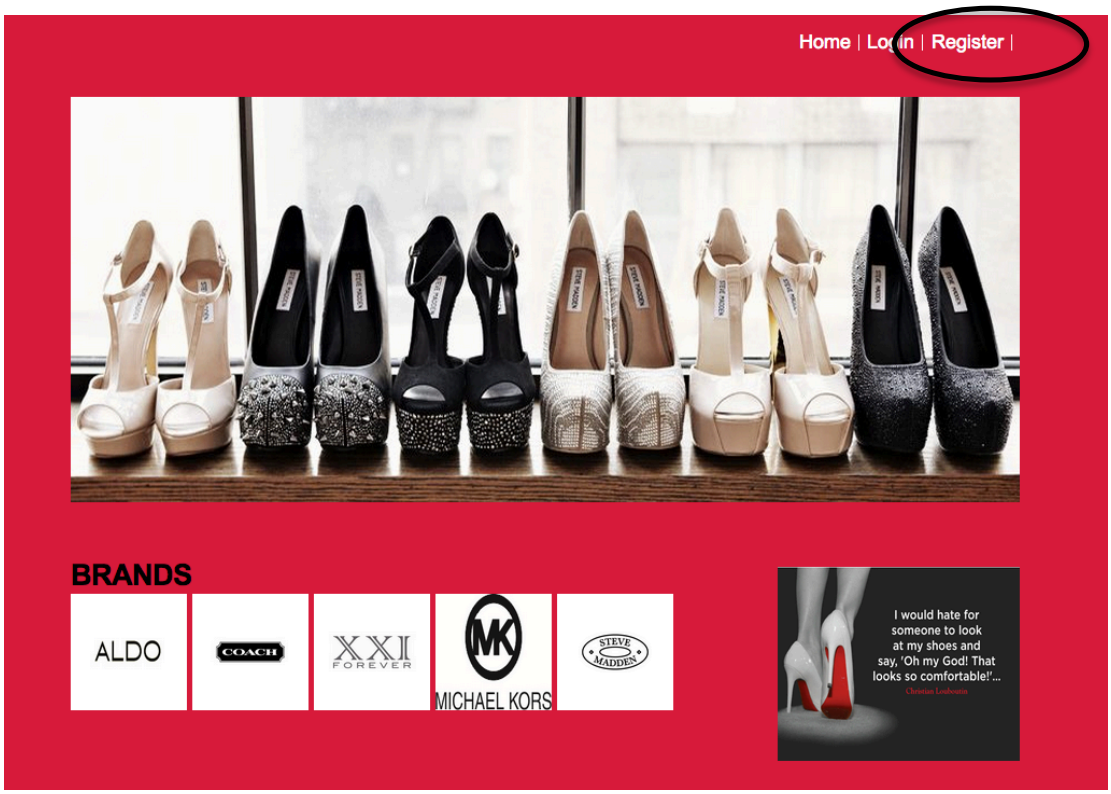
ER DIAGRAM


id
p_name
p_price
cart
size
quantity
views
brand
name
category
Product
price
image
p_id
buys
User
username
password
makes
Payment
cardholder name
card type
cardno.
has
billingadd
profile
name
country
phone_no
shipping_add

WEBSITE DESIGN AND FUNCTIONALITIES

HOME PAGE

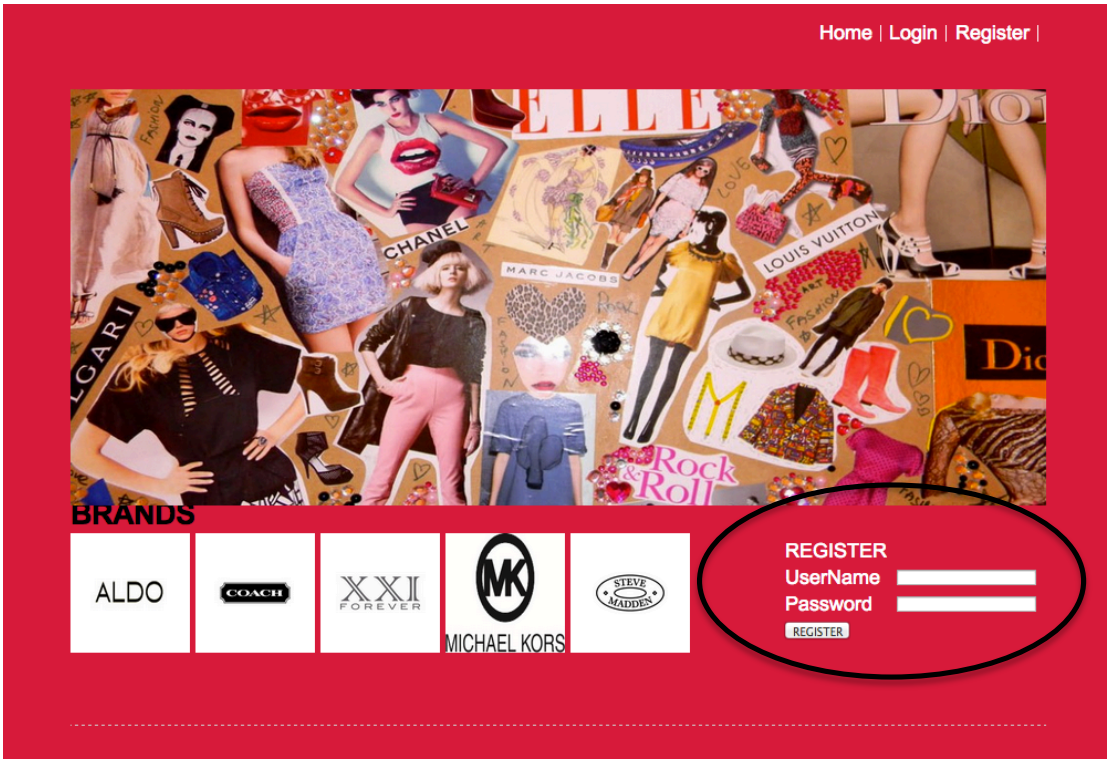
This is the main page of the website.



FUNCTIONALITIES

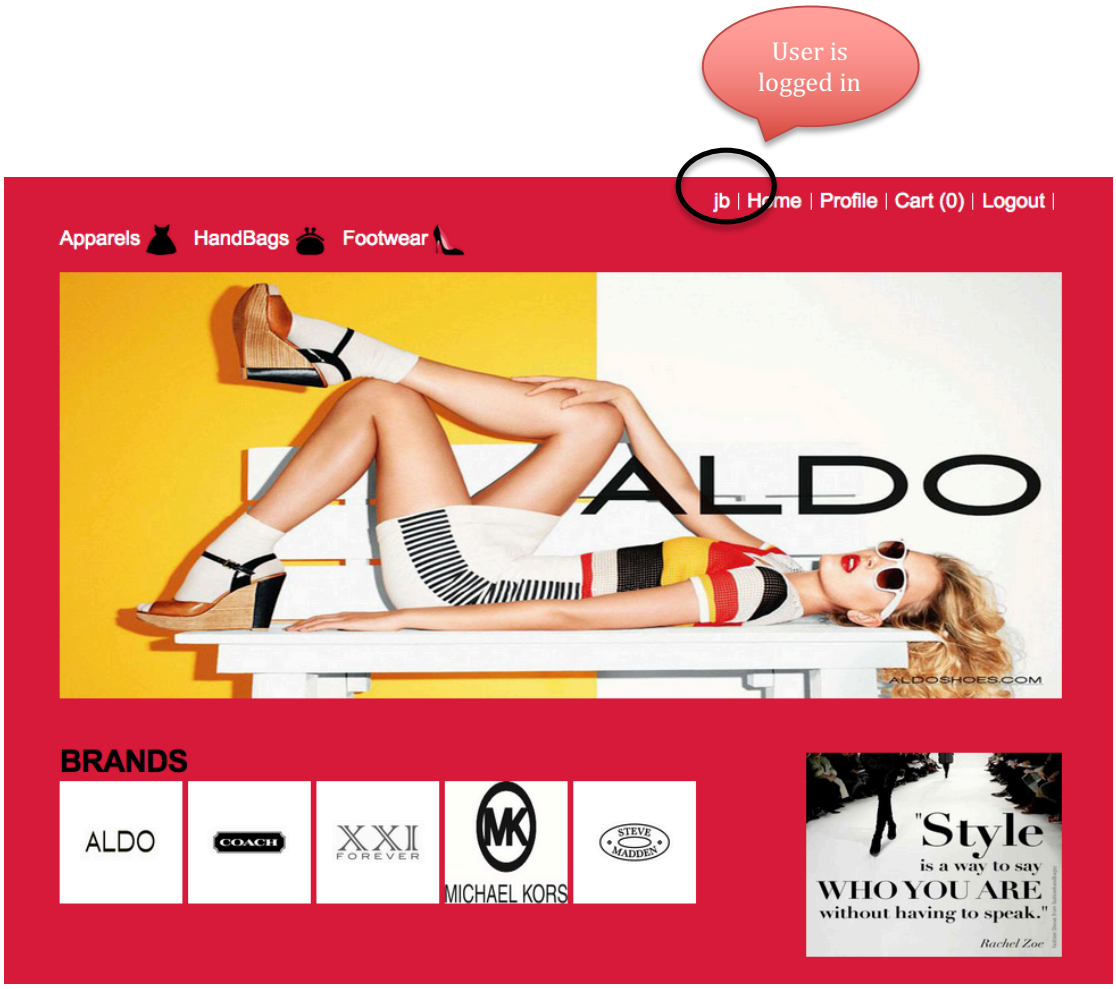
Key functionalities offered by the website are as follows:

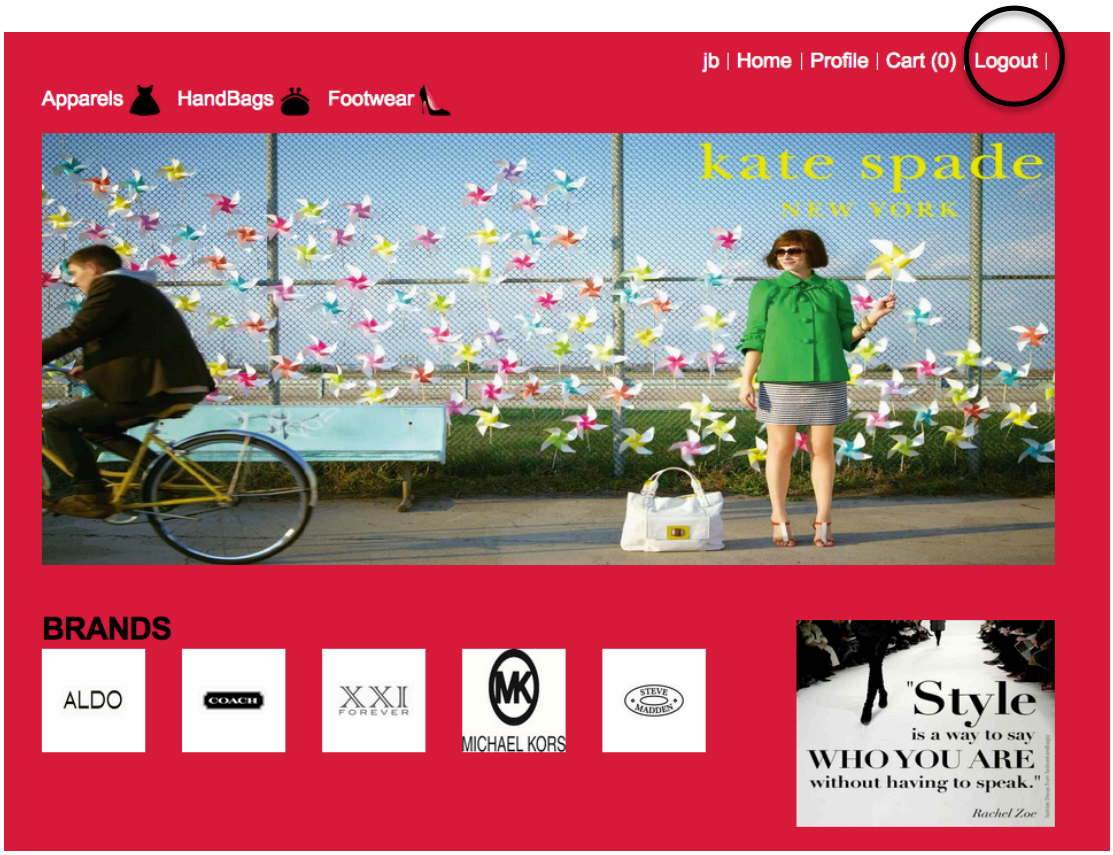
1) **Home**: displays the home page
2) **Register**: registers new user



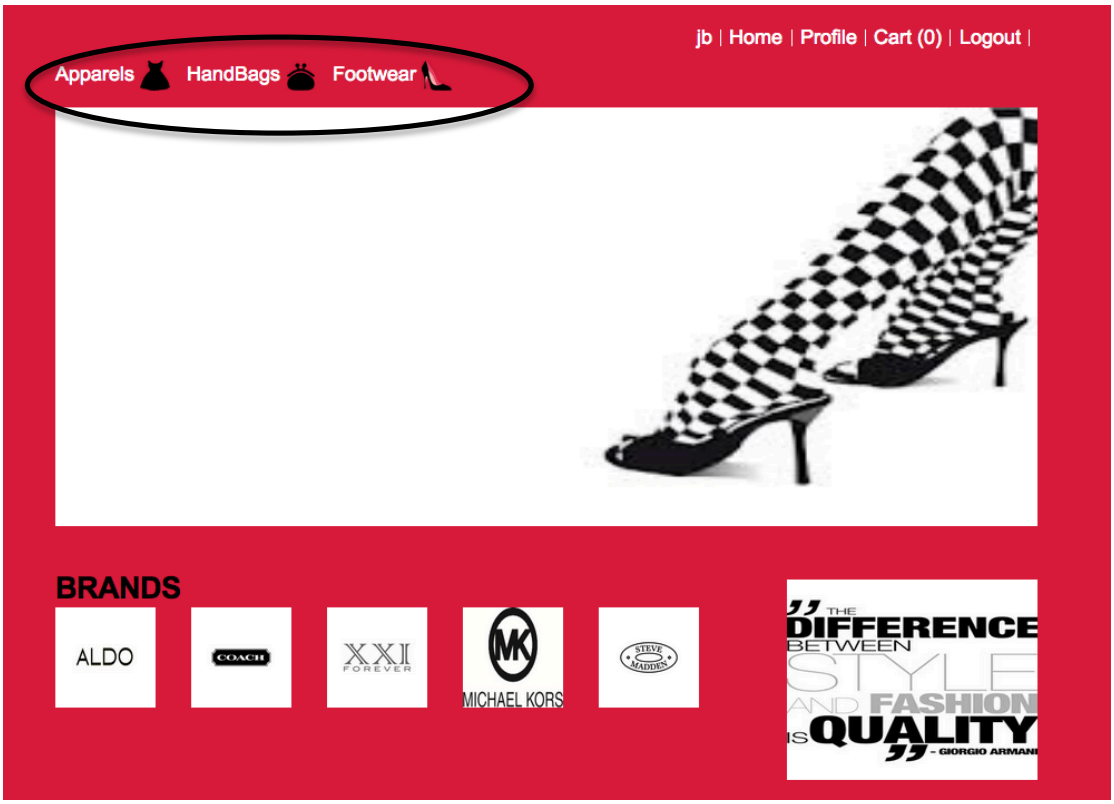
3) **Login**: takes the user to the login page

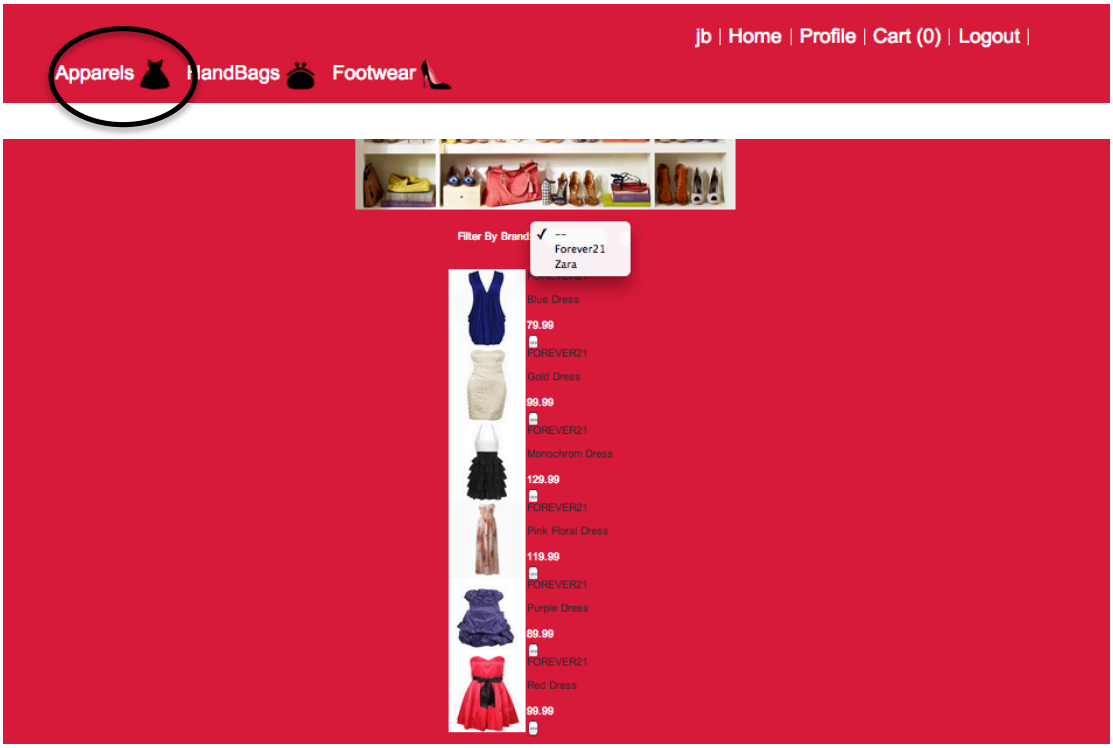
On successful login, a session is created for the user and the user is redirected to the main page from where he/she can start shopping.

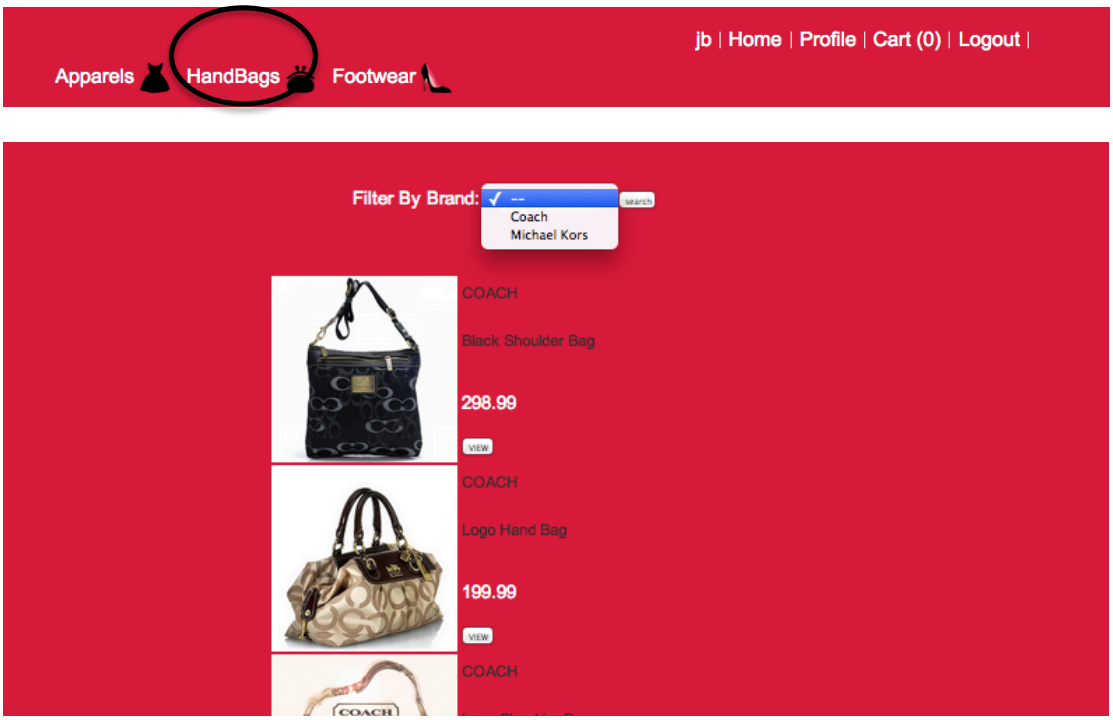

User is logged in
jb | Home | Profile | Cart (0) | Logout |
Apparels
HandBags
Footwear
ALDO
ALDOSHOES.COM
BRANDS
ALDO
COACH
XXI FOREVER
MICHAEL KORS
STEVE MADDEN
"Style is a way to say WHO YOU ARE without having to speak."
Rachel Zoe

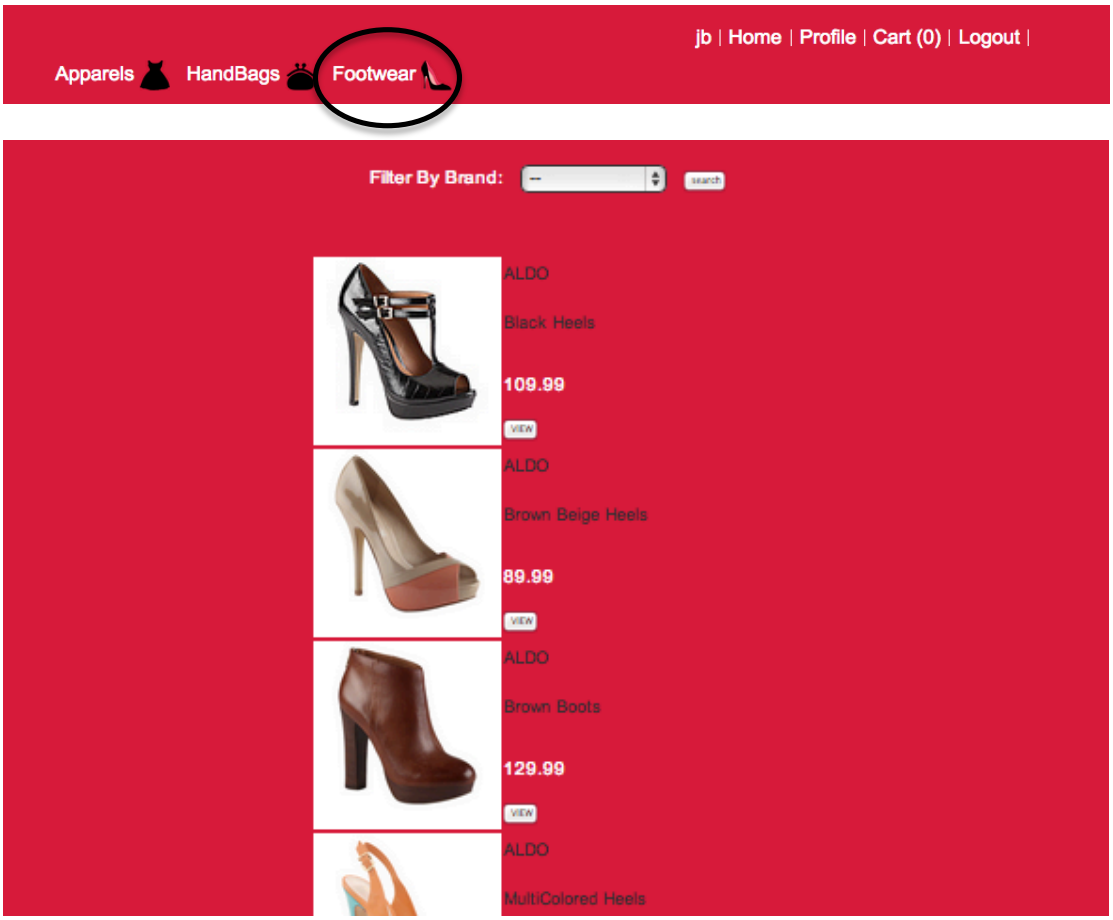

jb | Home | Profile | Cart (0) | Logout |
Apparels
HandBags
Footwear
kate spade
NEW YORK
BRANDS
ALDO
COACH
XXI FOREVER
MICHAEL KORS
STEVE MADDEN
"Style is a way to say WHO YOU ARE without having to speak."
Rachel Zoe

4) **Apparels, handbags, and footwear icon**: on clicking one of these icons on the main page, all the items related to category clicked are displayed.

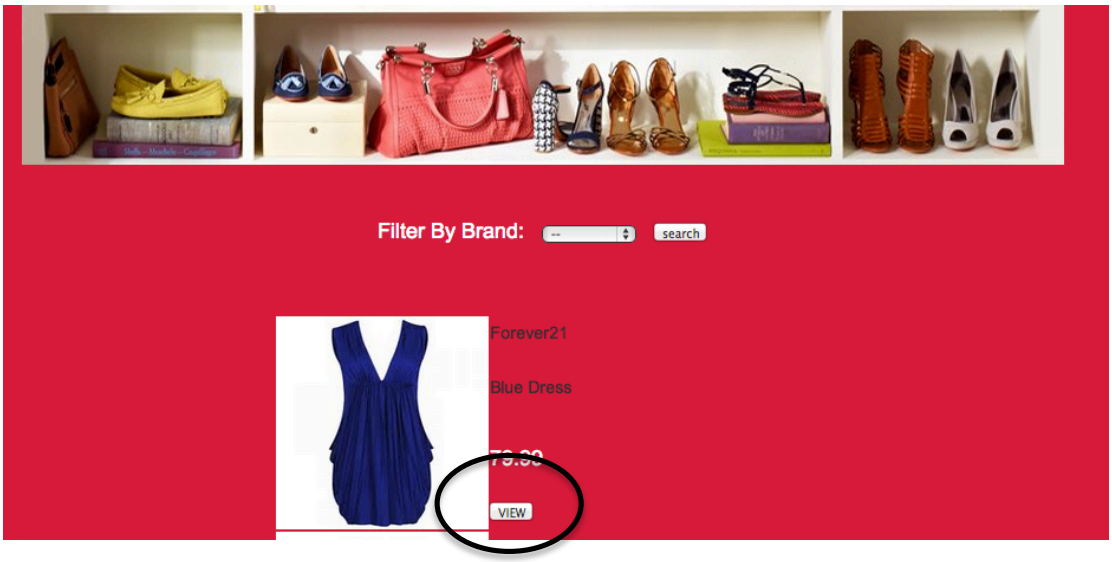


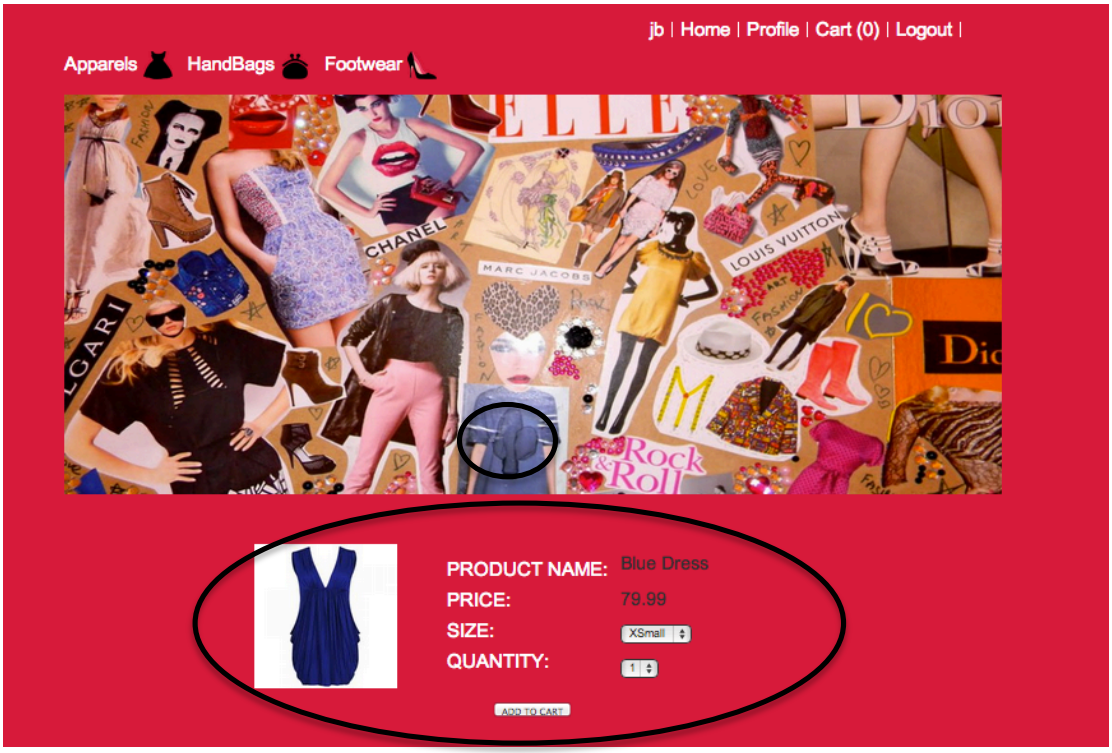



Apparels
HandBags
Footwear
jb | Home | Profile | Cart (0) | Logout |
Filter By Brand:
--
Coach
Michael Kors
search
COACH
Black Shoulder Bag
298.99
VIEW
COACH
Logo Hand Bag
199.99
VIEW
COACH

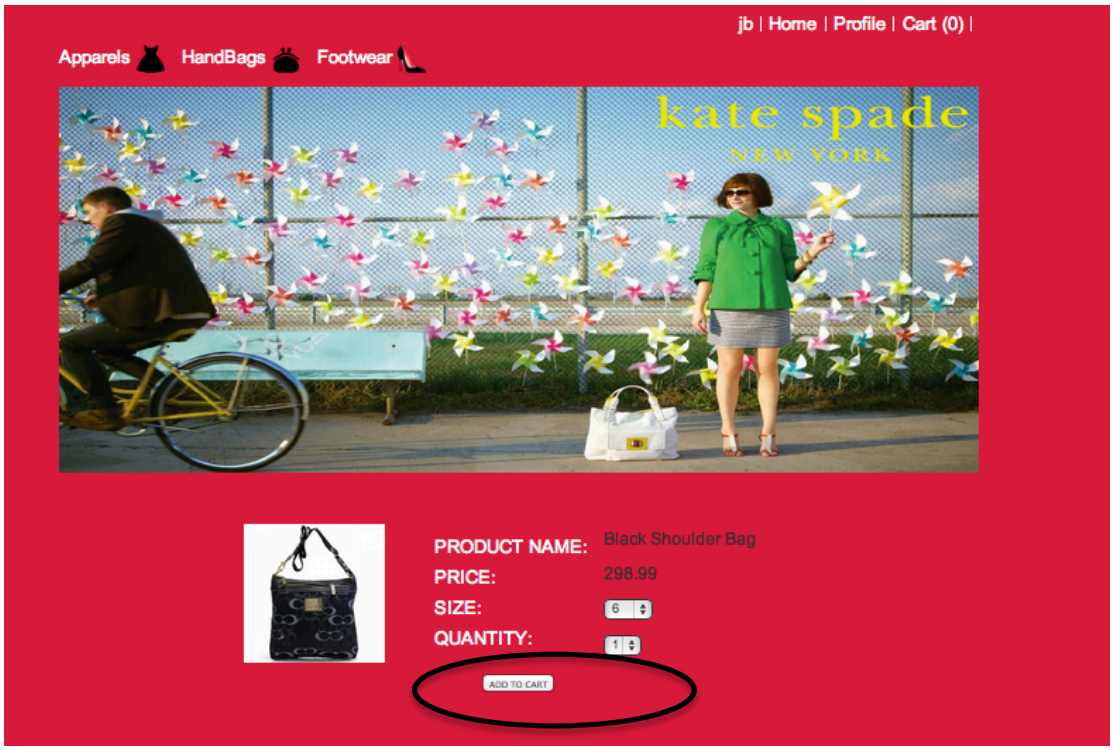

Apparels
HandBags
Footwear
jb | Home | Profile | Cart (0) | Logout |
Filter By Brand:
--
search
ALDO
Black Heels
109.99
VIEW
ALDO
Brown Beige Heels
89.99
VIEW
ALDO
Brown Boots
129.99
VIEW
ALDO
MultiColored Heels

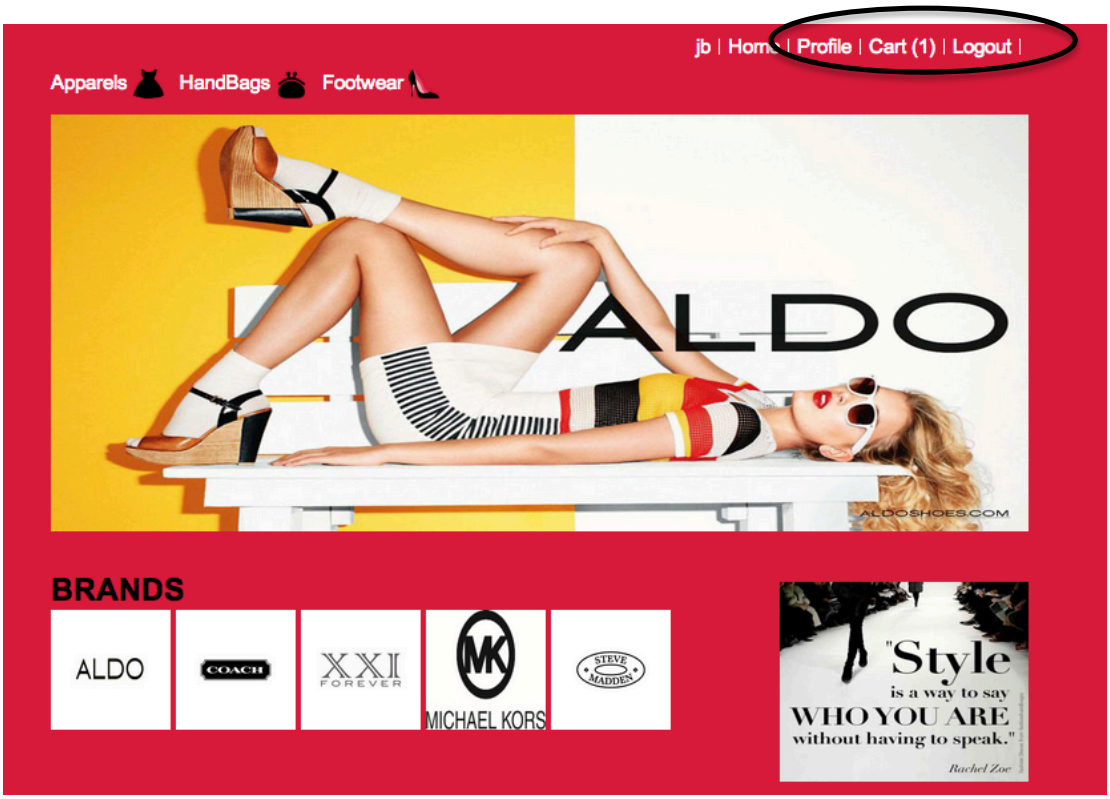
5) **View button:** on clicking view button the user is directed to the page where the information related to the product is mentioned and allows the user to add the item to the cart. The user can select the size/quantity as per requirement.



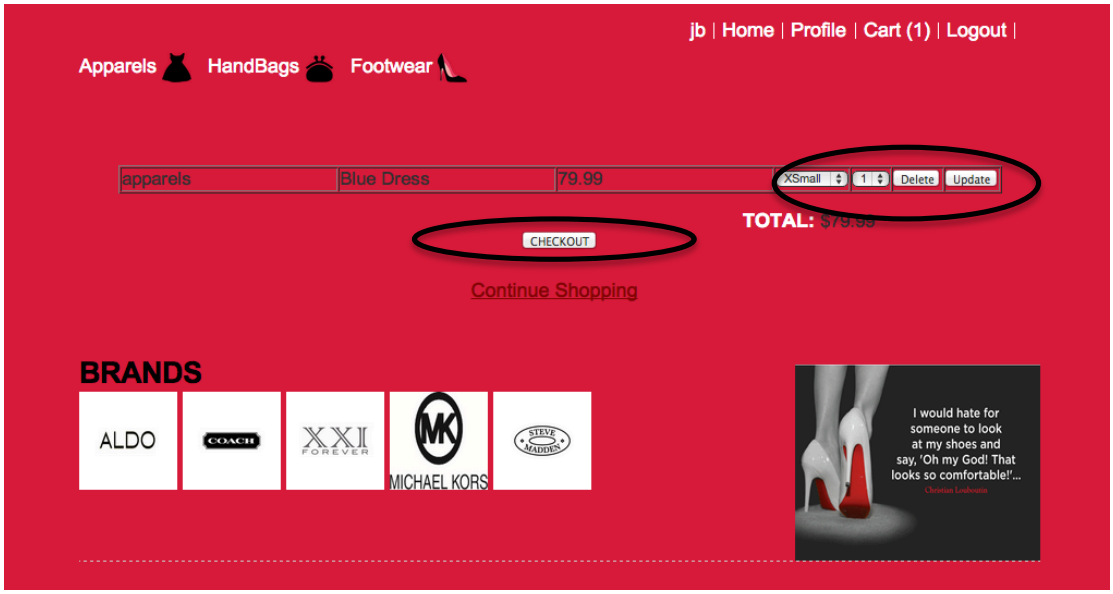


6) **Add to cart button**: On clicking Add to cart button the item is added to the user's cart. The cart value gets incremented.

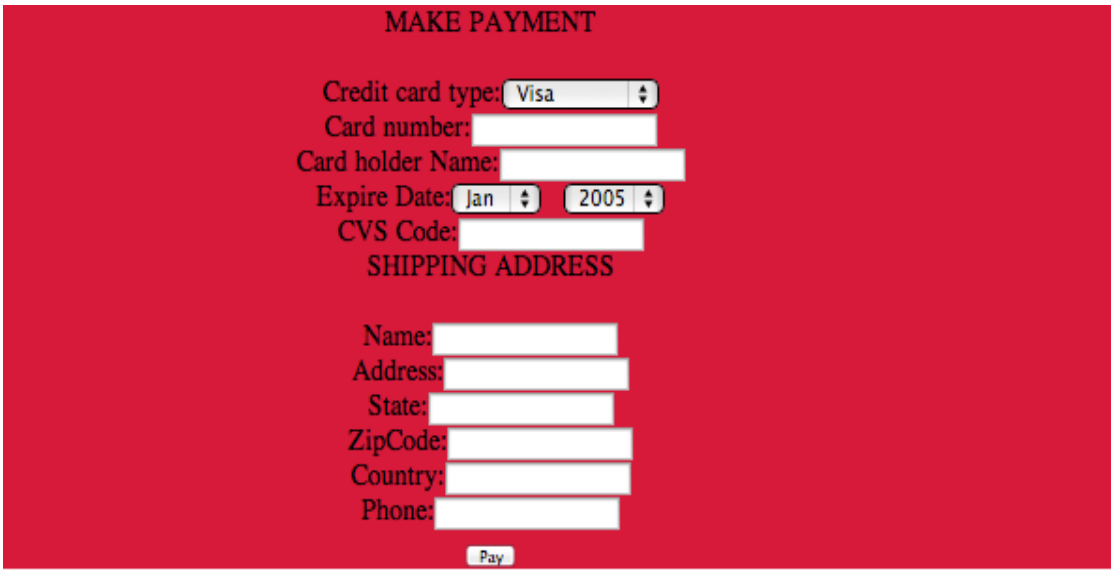




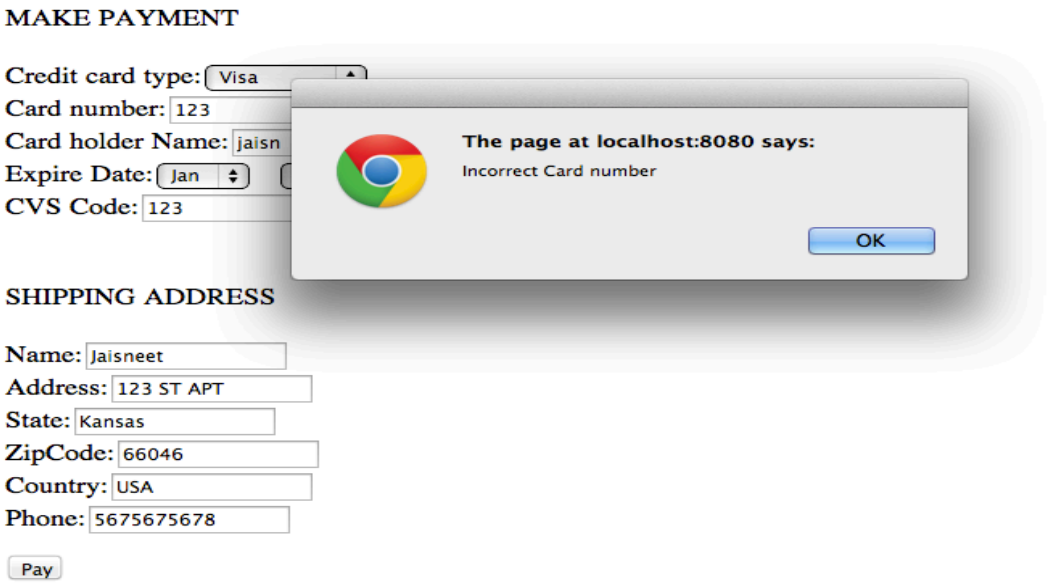
7) **Cart**: On clicking cart, the user has the ability to update or delete the order.



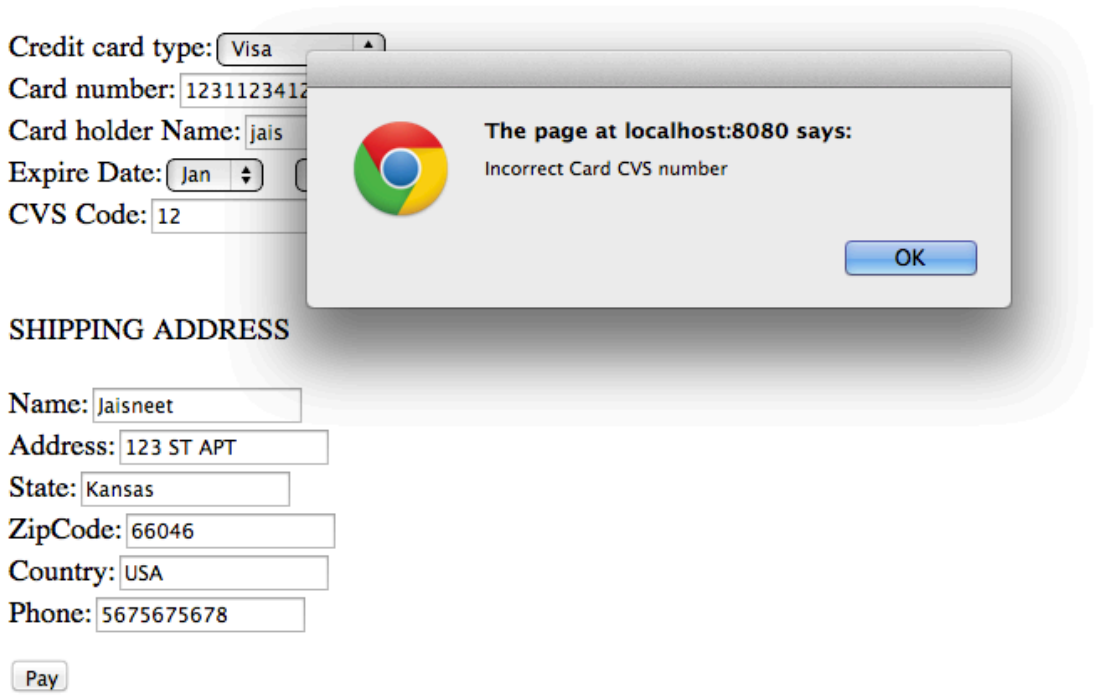
8) **Checkout**: On clicking checkout, the user confirms the order and exists for payment. Various validations have been used to ensure that that the data entered is correct.



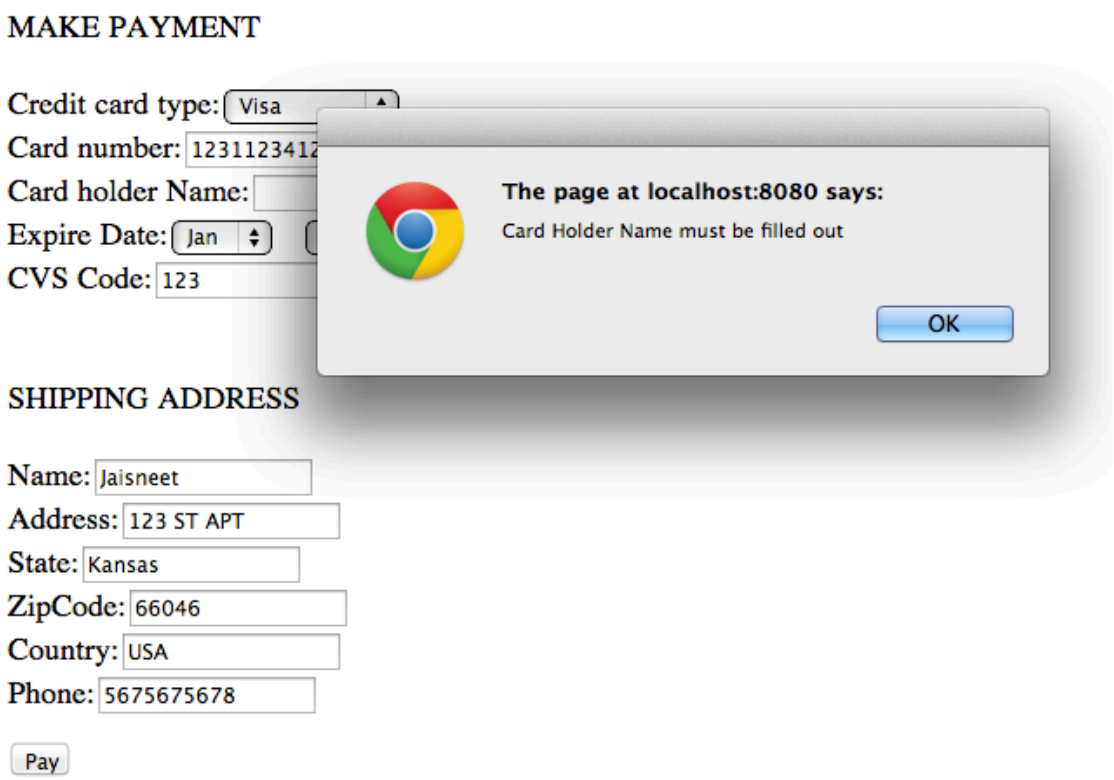
Validation on Card number:



Validation on Card CVS Number:

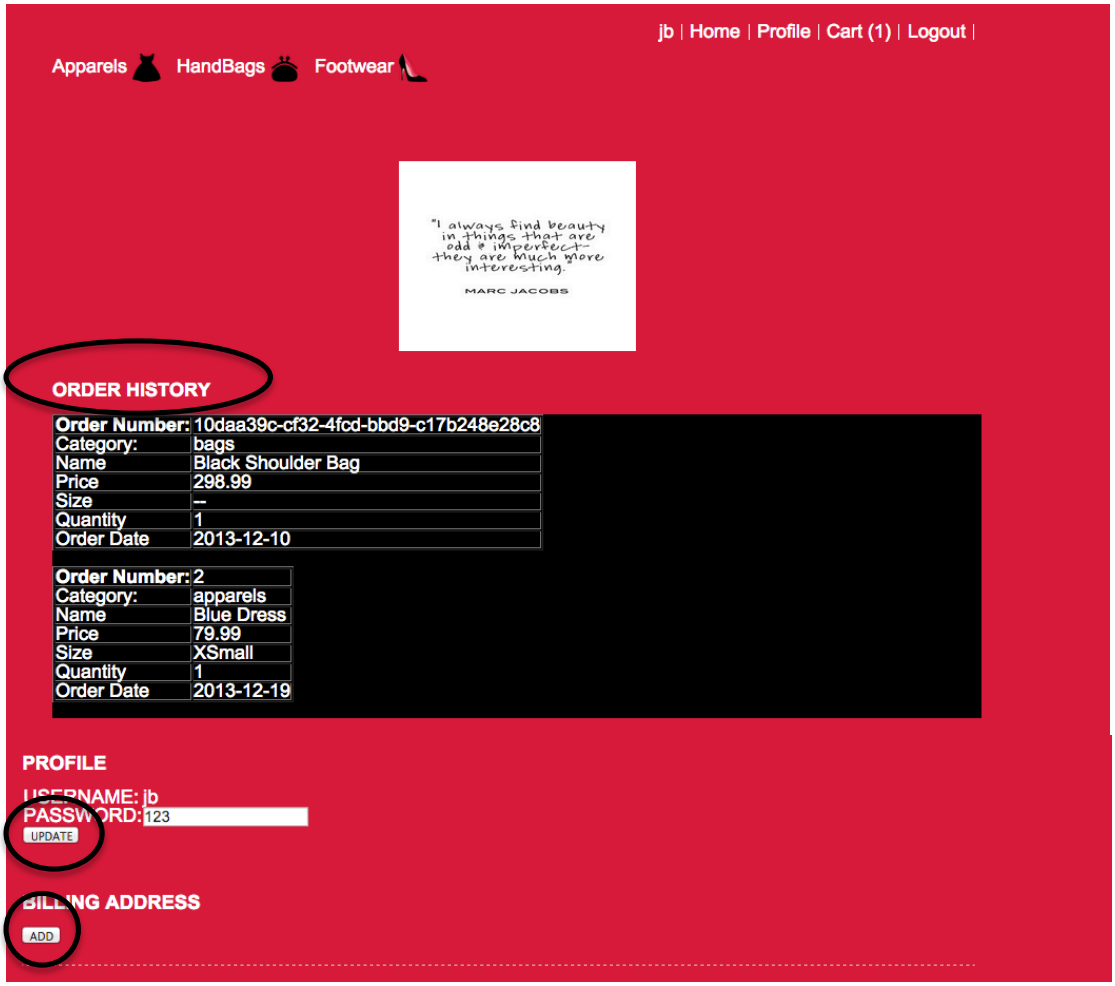


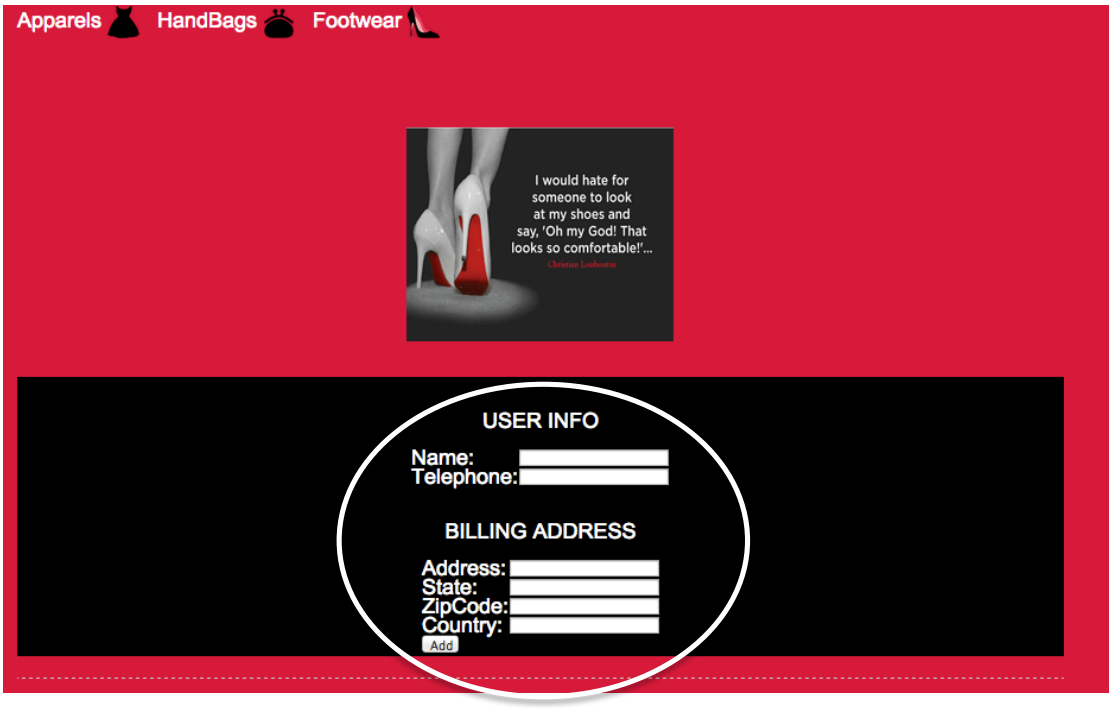
Validation on Card Name:



9) **Continue Shopping**: If the user decides to continue shopping he can click on continue shopping. He will be redirected to the main page.

10) **Profile**: gives the user his/her details like billing address, shipping address, summary of order till date. It also provides the user the ability to update his/her password and billing address.


jb | Home | Profile | Cart (1) | Logout |
Apparels
HandBags
Footwear
"I always find beauty in things that are odd & imperfect— they are much more interesting."
MARC JACOBS
ORDER HISTORY
Order Number: 10daa39c-cf32-4fcd-bbd9-c17b248e28c8
Category: bags
Name Black Shoulder Bag
Price 298.99
Size --
Quantity 1
Order Date 2013-12-10
Order Number: 2
Category: apparels
Name Blue Dress
Price 79.99
Size XSmall
Quantity 1
Order Date 2013-12-19
PROFILE
USERNAME: jb
PASSWORD: 123
UPDATE
BILLING ADDRESS
ADD


Apparels
HandBags
Footwear
I would hate for someone to look at my shoes and say, 'Oh my God! That looks so comfortable!'...
USER INFO
Name:
Telephone:
BILLING ADDRESS
Address:
State:
ZipCode:
Country:
Add

DATABASES

Following database have been used in the project so far:

1) Login table

Name: login Schema: ws

Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	Default
username	VARCHAR(45)	☑	☑	☐	☐	☐	☐	☐	
password	VARCHAR(45)	☑	☑	☐	☐	☐	☐	☐	
<click to edit>		☐	☐	☐	☐	☐	☐	☐	

2) Cart Table:

Name: cart Schema: ws

Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	Default
username	VARCHAR(45)	☐	☑	☐	☐	☐	☐	☐	
c_name	VARCHAR(45)	☐	☑	☐	☐	☐	☐	☐	
c_price	FLOAT	☐	☑	☐	☐	☐	☐	☐	
c_size	FLOAT	☐	☐	☐	☐	☐	☐	☐	NULL
c_quantity	INT(11)	☐	☑	☐	☐	☐	☐	☐	
c_date	DATETIME	☐	☑	☐	☐	☐	☐	☐	

3) Table to store products of various brands.

Query 1 × | item – Table ×

Name: item Schema: ws

Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	Default
i_brand	VARCHAR(45)	☑	☑	☐	☐	☐	☐	☐	
i_cat	VARCHAR(45)	☑	☑	☐	☐	☐	☐	☐	
i_name	VARCHAR(45)	☑	☑	☐	☐	☐	☐	☐	
i_price	FLOAT	☐	☑	☐	☐	☐	☐	☐	
i_img	BLOB	☐	☑	☐	☐	☐	☐	☐	
i_subcat	VARCHAR(45)	☑	☑	☐	☐	☐	☐	☐	
<click to edit>		☐	☐	☐	☐	☐	☐	☐	

4) Table to store order history

Name: order_his Schema: ws

Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	Default
username	VARCHAR(45)	☐	☑	☐	☐	☐	☐	☐	
o_cat	VARCHAR(45)	☐	☑	☐	☐	☐	☐	☐	
o_name	VARCHAR(45)	☐	☑	☐	☐	☐	☐	☐	
o_price	FLOAT	☐	☑	☐	☐	☐	☐	☐	
o_size	VARCHAR(45)	☐	☑	☐	☐	☐	☐	☐	
o_quantity	INT(11)	☐	☑	☐	☐	☐	☐	☐	
o_date	DATETIME	☐	☑	☐	☐	☐	☐	☐	
o_number	VARCHAR(45)	☐	☑	☐	☐	☐	☐	☐	

5) Profile table

Name: profile Schema: ws

Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	Default
username	VARCHAR(45)	☑	☑	☐	☐	☐	☐	☐	
u_name	VARCHAR(45)	☐	☐	☐	☐	☐	☐	☐	NULL
u_address	VARCHAR(45)	☐	☑	☐	☐	☐	☐	☐	
u_state	VARCHAR(45)	☐	☑	☐	☐	☐	☐	☐	
u_zipcode	VARCHAR(45)	☐	☑	☐	☐	☐	☐	☐	
u_country	VARCHAR(45)	☐	☑	☐	☐	☐	☐	☐	
u_phone	VARCHAR(45)	☐	☑	☐	☐	☐	☐	☐	

ENHANCEMENT

The following features need to added to the website:

- Wish List feature