

Report For CS425 Project

Costco Wholesale Database and Application

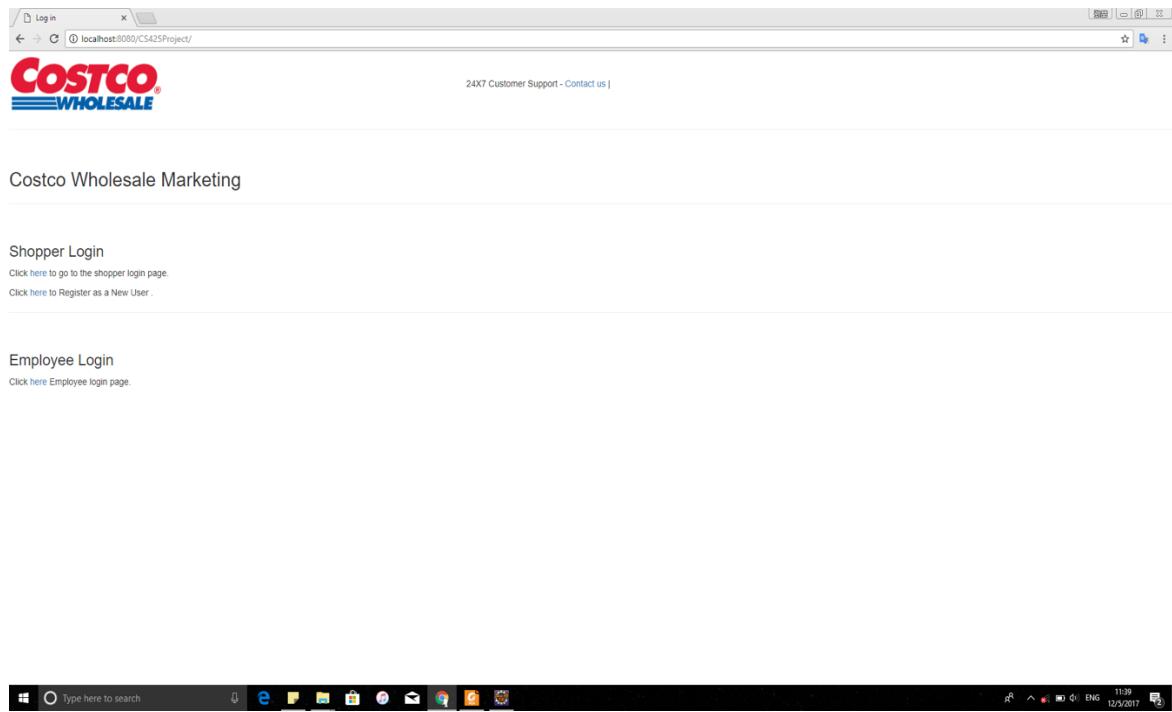
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5/12/2017

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How it works:



When you get to the Costco wholesale login page, you will find there are two ways for you to login. You can choose shopper login or employee login depend on what you are. Let's first try shopper login as a new user. So you can click the second line to register as a new user.

The screenshot shows a web browser window with the URL localhost:8080/CS425Project/userregister.jsp. The page features the Costco Wholesale logo at the top. Below it, a heading says "Enter your details for registration". A form follows with various input fields: Cust_Id, Name, Email, Card_no, Cardholder_name, Expiry date, Cvv, Address Name/Type, Street, Street Number, City, State, Zip Code, and Password. A "Register" button is at the bottom right of the form. Below the form, a link "To Login [Click Here](#)" is visible.

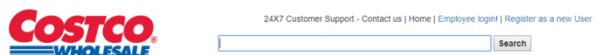


Now you are in register page.

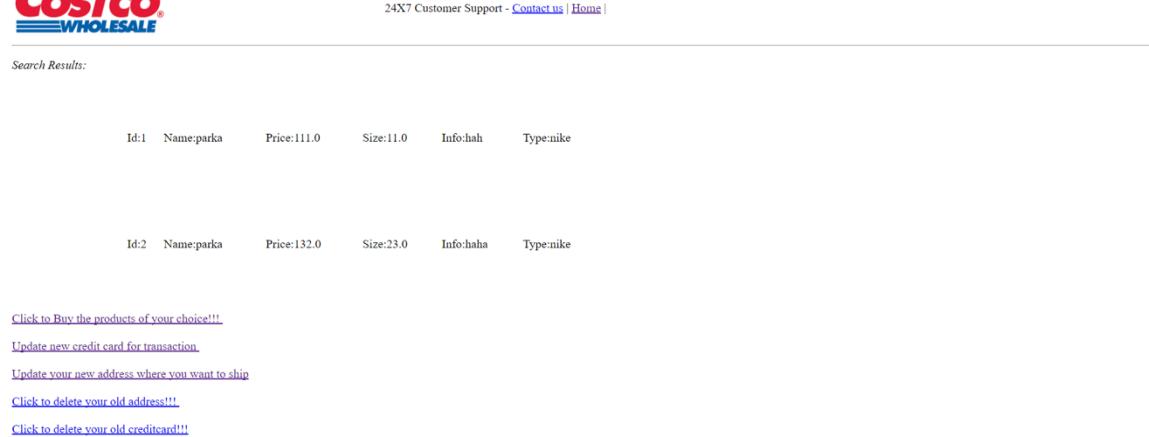
The screenshot shows a web browser window with the URL localhost:8080/CS425Project/userreg.jsp?customers_id=9&customers_name=jinzhe+DAI&Mail_id=dai387196%40gmail.com&card_no=12347688965&cardholder_name=dai&Expirydate=2020&CVV=888&Address_name=3241+S.WABASH&Street=3241+S.WABASH&stre.... The page displays the message "Successfully Added. Welcome jinze DAI". It also shows a "24X7 Customer Support - [Contact us](#) | [Home](#) | [Login](#)". A Google Smart Lock dialog box is open, asking if the user wants to save their password for the site, with options "Edit", "Save", and "Never". Below the dialog, there is a link "To View Products [Click Here](#)".



After submitting all the information successfully, you already been a member of Costco wholesale! And now you can click the button to view products.



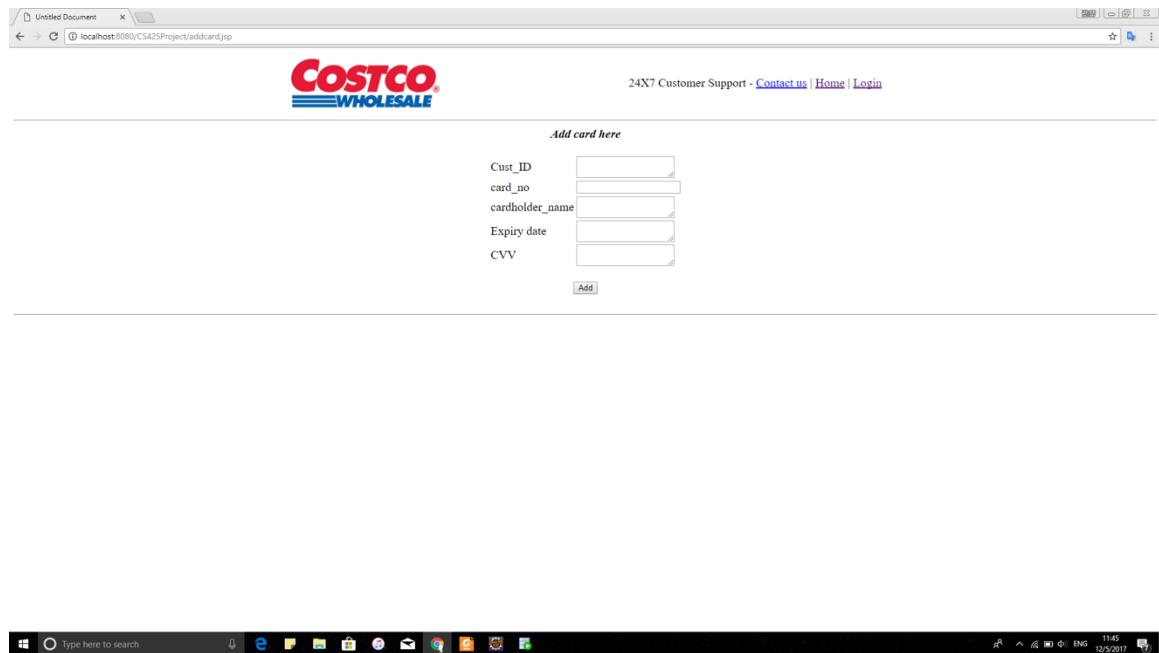
Now you are in the home page of Costco, you can search product you are interested. For example, you search parka.



It will shows all parkas with their unique ID, names, prices, size, information and types. And you can see some links below.

The first line is to buy the products of your choice.
The second line is for you to update new credit card for transaction.
The third line is for you to update your new address where you want the product ship to.
The forth line is for you to delete your old address and the last line is for you to delete your old credit card.

Let's try to click the second link to update the credit card first.

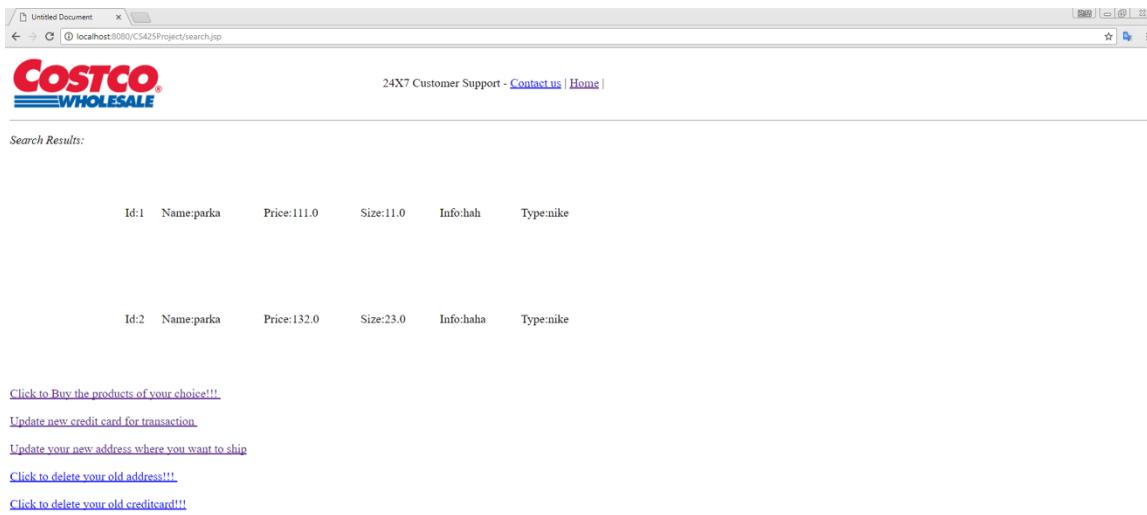


A screenshot of a web browser window. The title bar says "Untitled Document". The address bar shows "localhost:8080/CS425Project/addcard.jsp". The page content is a form titled "Add card here". It contains fields for "Cust_ID", "card_no", "cardholder_name", "Expiry date", and "CVV", each with an associated input field. Below the fields is a small "Add" button. At the top right of the page, it says "24X7 Customer Support - [Contact us](#) | [Home](#) | [Login](#)". The browser's taskbar at the bottom shows various pinned icons and the system tray on the right.

In this page you can add your credit card's detail information. After filling in the form, click Add.



Now it shows successfully added the information, then you can click the go back button to go back to the previous page.



Now we can try the function of update the address of shipping. Click it.

Untitled Document

localhost:8080/CS425Project/addaddress.jsp

COSTCO
WHOLESALE

24X7 Customer Support - [Contact us](#) | [Home](#)

Add Address here

Cust_ID	9
Address Name/Type	msv
Street	msv
Street No	3241
City	chicago
State	il
Zip Code	60616

Add



Again, we need to fill in this form to add your new address. And then click add button.

REG

localhost:8080/CS425Project/address.jsp?customer_id=9&Address_name=msv&Street=msv&street_no=3241&city=chicago&Address_state=il&zipcode=60616

COSTCO
WHOLESALE

24X7 Customer Support - [Contact us](#) | [Home](#) | [Login](#)

Successfully Added

Successfully Added [go back to main page](#) to checkout.



OK, we have successfully added the information about new address. And then click go back to main page button.

The screenshot shows a web browser window with the URL localhost:8080/CS425Project/search.jsp. The page title is "24X7 Customer Support - Contact us | Home |". The header features the **COSTCO WHOLESALE** logo. Below the header, a section titled "Search Results:" displays two items:

	Name	Price	Size	Info	Type
Id:1	parka	111.0	11.0	hah	nike
Id:2	parka	132.0	23.0	haha	nike

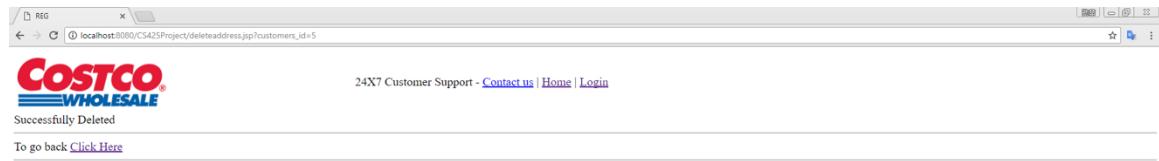
Below the results, there are several links:
[Click to Buy the products of your choice!!!](#)
[Update new credit card for transaction](#)
[Update your new address where you want to ship](#)
[Click to delete your old address!!!](#)
[Click to delete your old creditard!!!!](#)

Then we can try to delete the old address, click the forth link.

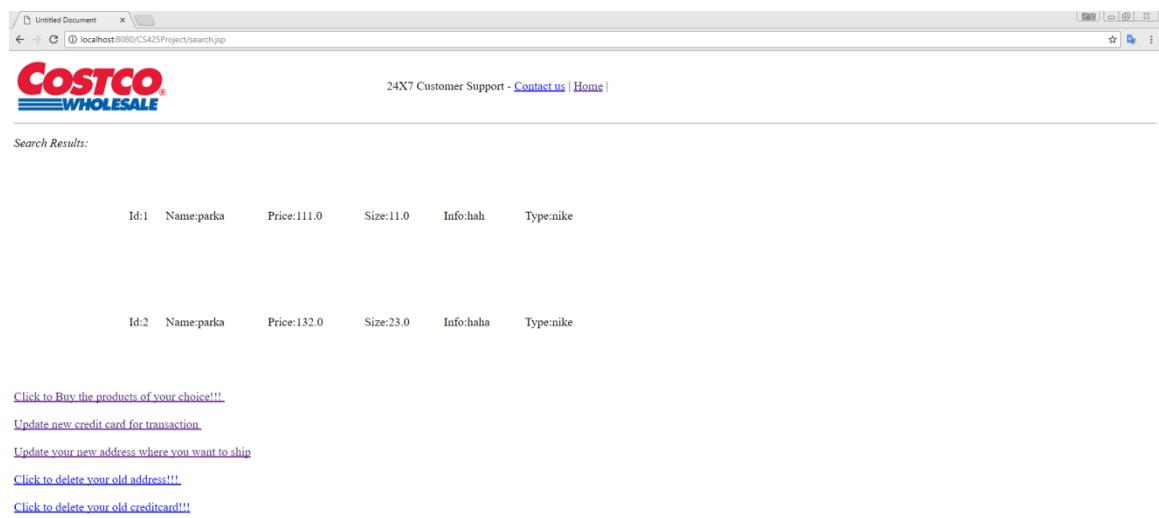
The screenshot shows a web browser window with the URL localhost:8080/CS425Project/deladdress.jsp. The page title is "Insert title here". The content is titled "Deleting Address" and contains the following text:
Hello customer !!
Please Enter customers ID to remove from the database

It shows that you should enter your ID so that you can remove your old address from database.

So you enter your ID and then click delete.



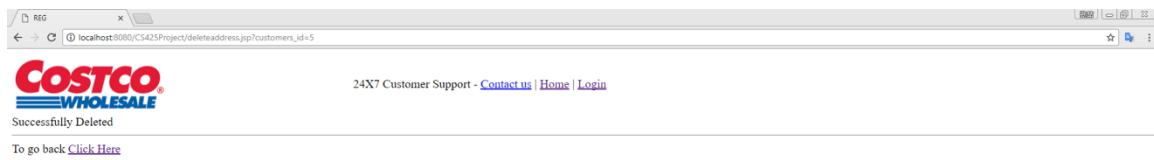
ok, your old address have been deleted. Then we go back.



Then we try to delete the old credit card. Click the last link.



Also, you should enter your ID to go next.



ok, it shows successfully deleted! Then we go back.

The screenshot shows a web browser window with the URL localhost:8080/CS425Project/search.jsp. The page title is "24X7 Customer Support - [Contact us](#) | [Home](#) |". The header features the **COSTCO WHOLESALE** logo. Below the header, the text "Search Results:" is displayed. Two search results are listed:

Id	Name	Price	Size	Info	Type
1	parks	111.0	11.0	hah	mike
2	parks	132.0	23.0	haha	mike

Below the results, there are several links:
[Click to Buy the products of your choice!!!](#)
[Update new credit card for transaction](#)
[Update your new address where you want to ship](#)
[Click to delete your old address!!!](#)
[Click to delete your old creditcard!!!](#)



Then we click the first line to buy the product.

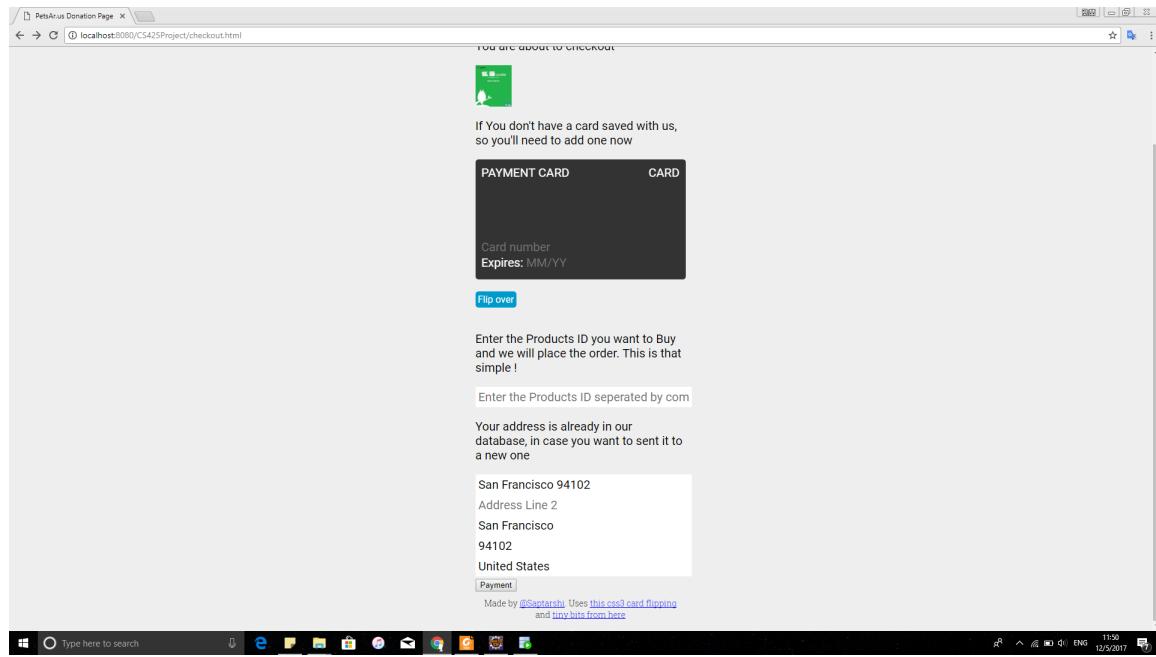
<http://localhost:8080/CS425Project/checkout.html>

The screenshot shows a web page titled "Checkout" with the URL <http://localhost:8080/CS425Project/checkout.html>. At the top right is a blue button labeled "Donate Bitcoins". Below it, the word "Checkout" is centered. A message "You are about to checkout" is displayed. To the right is a small green thumbnail image of a person. A note below says, "If You don't have a card saved with us, so you'll need to add one now". There are two dark rectangular input fields: "PAYMENT CARD" and "CARD". Inside the "CARD" field, there are placeholder text "Card number" and "Expires: MM/YY". Below these fields is a blue "Flip over" button. To the right, there is a text input field with placeholder text "Enter the Products ID you want to Buy and we will place the order. This is that simple!". Below it is another text input field with placeholder text "Enter the Products ID seperated by commas in the". Further down, there is a note "Your address is already in our database, in case you want to sent it to a new one" followed by four input fields: "Address Line 1", "Address Line 2", "Town", and "Postcode".

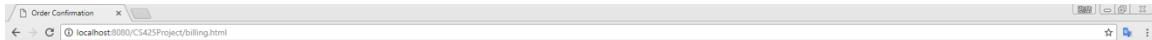
Look at the top button donate bitcoins, it is a payment method of donate your bitcoin.

The screenshot shows a "PetAurus Donation Page" window with the URL <http://localhost:8080/CS425Project/checkout.html>. At the top right is a blue button labeled "Donate Bitcoins". The main content features a "KHANACADEMY" logo with a blue background and various icons. It displays a "One-time Donation" of "\$1.00 USD" or "0.00008447 BTC". Below this is a QR code and a text input field with the address "18V1usH8tPf3HbC1mW1TThBvP". A timestamp "14:58" is shown next to the address. A "Waiting for Payment" button is at the bottom. Below the donation form, there is a note "Enter the Products ID you want to Buy and we will place the order. This is that simple!" and a text input field "Enter the Products ID seperated by com". Further down, there is a note "Your address is already in our database, in case you want to sent it to a new one" and input fields for "Address Line 1" and "Address Line 2". The bottom of the screen shows a Windows taskbar with various icons and the date/time "12/5/2017 11:48".

This is the page of using bitcoin to pay.



Also you can choose using credit card to pay. All you have to do is enter the product ID that you want to buy. And your address has already been in our database, you can click payment button directly or if you want to sent it to a new address you can update the detail information on it.



ok, your order has been placed successfully, and you can see some information like you name, total bill, date, your address, and the official email.
Then we go back to the login page.



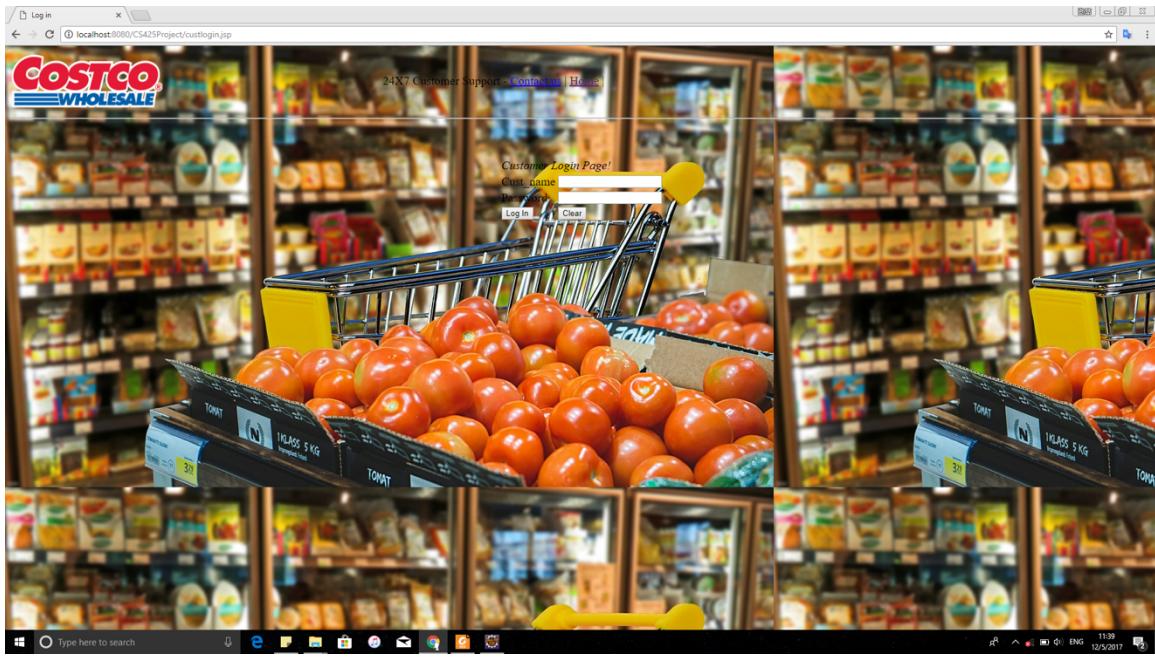
Costco Wholesale Marketing

Shopper Login
[Click here](#) to go to the shopper login page.
[Click here](#) to Register as a New User .

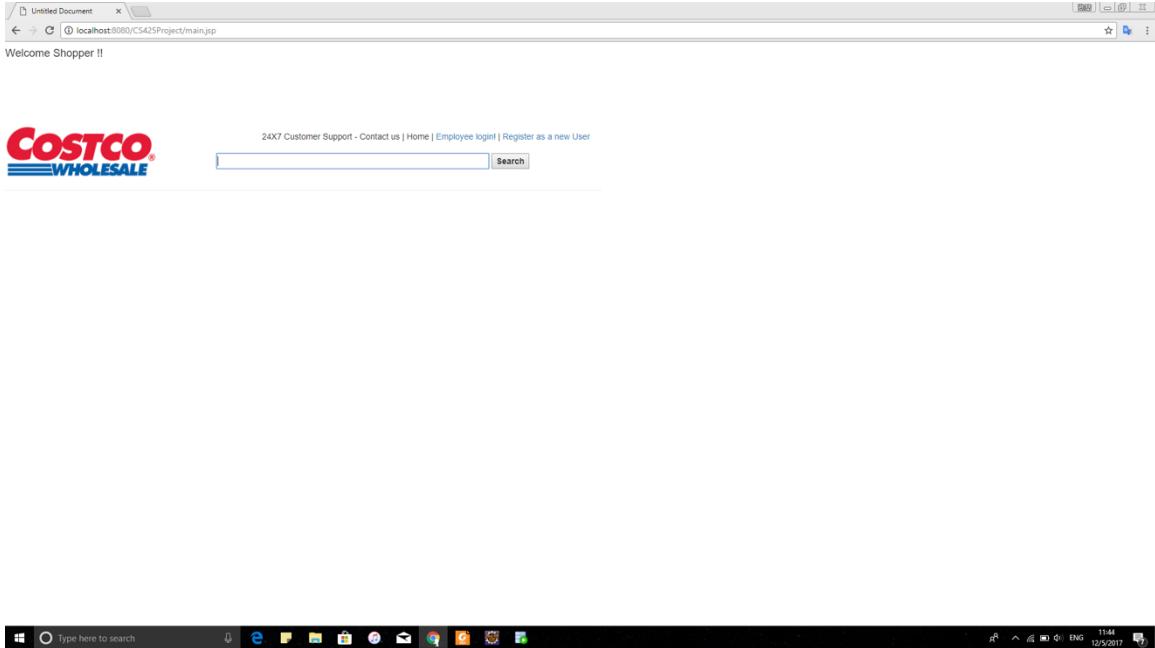
Employee Login
[Click here](#) Employee login page.



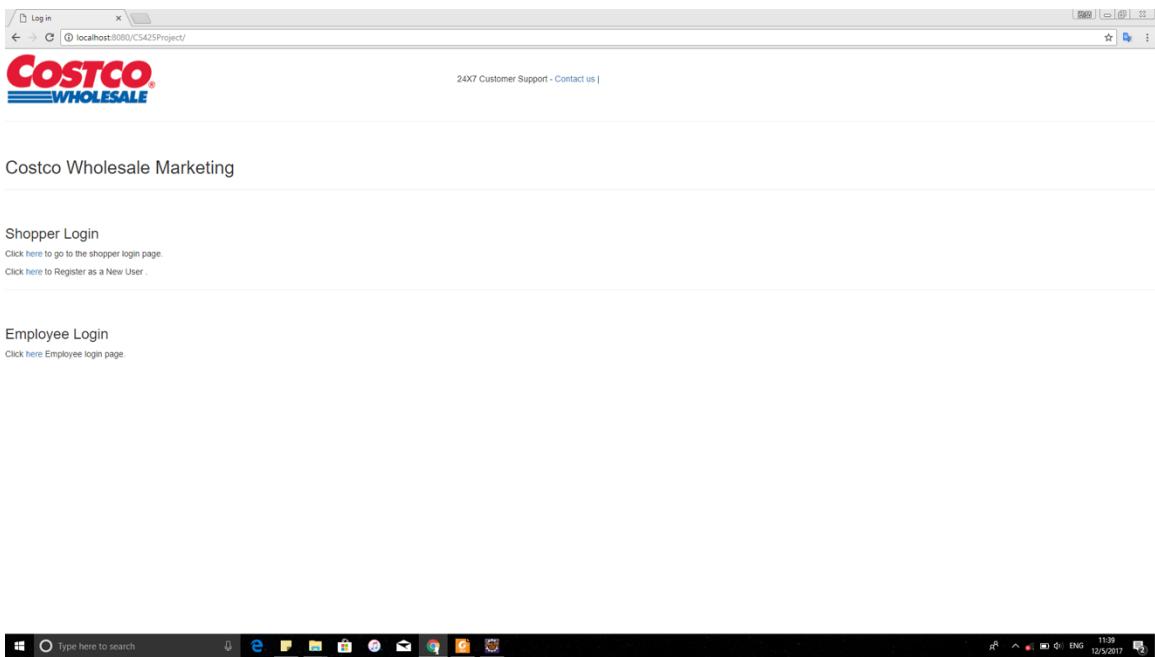
This time we go to the shopper login page. Click the first button.



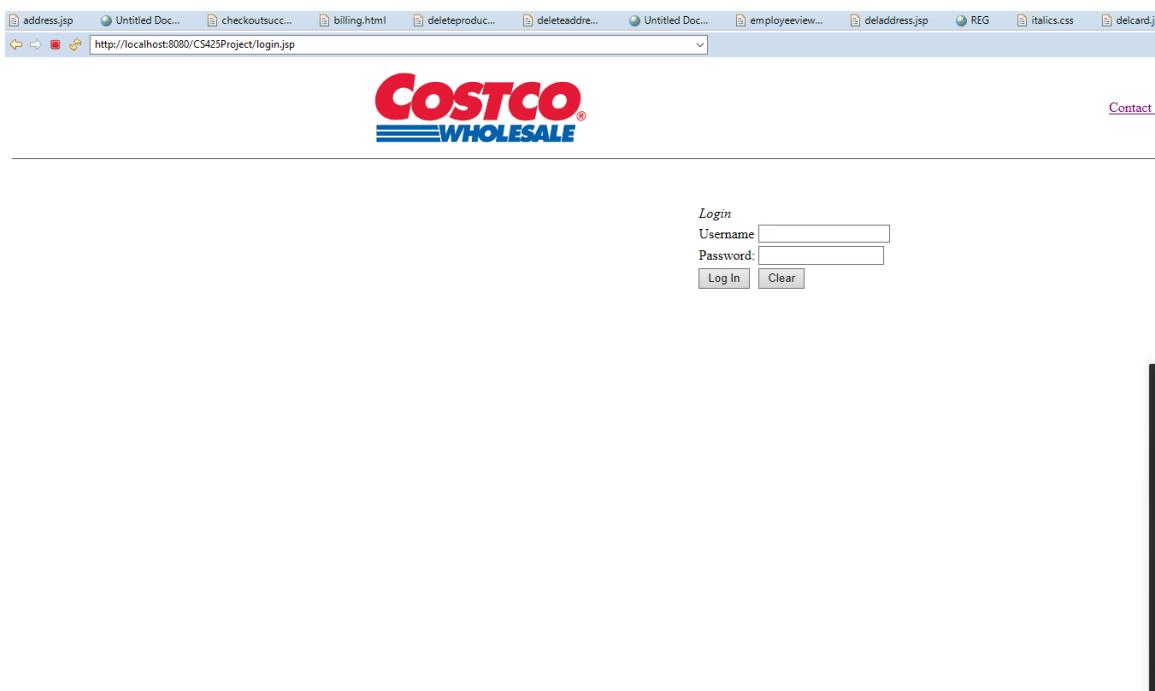
You should fill in you cust_name and password that you have been registered to login the shopper page.



ok, it shows the same page with that before. Then we go back to login page.



Then, we choose Employee login. Click the third button.



You use your username and password to login.

Product_ID	Product_NAME	Product_Price	
1	parka	111	M clothes hah
4	pants	50	XL clothes made in China
5	T-shirt	20	M clothes made in US
6	coat	70	M clothes made in India
7	pants	24	S clothes made in UK
8	jacket	50	L clothes made in China
9	hoodie	35	L clothes made in India
10	sweater	65	L clothes made in China
11	apple	300	B fruits from Chicago
12	banana	2	S fruits from Chicago
13	orange	1	B fruits from Chicago
14	pear	1	B fruits from Chicago
15	grape	2	S fruits from China
16	apple	3	B fruits from China
17	peach	2	S fruits from China
18	grape	1	B fruits from Chicago
19	peach	1	S fruits from Chicago
20	apple	5	B fruits from Chicago
2	parka	132	S clothes haha
3	pants	32	B clothes heihei

Add Product

Hello Employee !!!

Click [here](#) to add a new item.

Deleting Product

Hello Employee !!

Please Enter product ID to remove from the database

You will see all products with their ID, name, price, size, type and description. If you want to add product, click that button to add a new item.

The screenshot shows a web browser window with the URL <http://localhost:8080/CS425Project/register.jsp>. The page features the **COSTCO WHOLESALE** logo at the top right. On the left, there are standard browser controls (back, forward, stop, refresh). To the right of the logo are links for [Contact us](#), [Home](#), and [Login](#).

The main content area is titled "Add Product". It contains the following form fields:

- Product_id:
- Product_name:
- Price:
- Product_size:
- Product_cat:
- Product_info:
- Product_image:

Below the form is a small "Add" button. At the bottom of the page, there is a link: "Delete a Product [Click Here](#)".

Filling in all information, let's try adding a new product AF1 with ID 32, 100 dollars, 41 size, which is a pair of shoes. Then click add.

19	peach	1	S	fruits	from Chicago
20	apple	5	B	fruits	from Chicago
32	AF1	100	41	shoes	good
2	parka	132	S	clothes	haha
3	pants	32	B	clothes	heihei

Add Product

Hello Employee !!!

Click [here](#) to add a new item.

Deleting Product

Hello Employee !!

Please Enter product ID to remove from the database

Then we can see the new product AF1 has been added in to our database. Then we try delete a product. You should enter the product ID to remove from the database. Let's try the product that we just added. We enter 32 in the blank and click delete button.



24X7 Customer Support - [Contact us](#) | [Home](#) | [Login](#)

Successfully Deleted

To View Products [Click Here](#)

Ok, it shows product has been successfully deleted.

Database:

The screenshot shows the Oracle SQL Developer interface. On the left, the Connections sidebar shows a connection to 'fourier.cs.iit.edu'. The central pane displays the structure of the 'ADDRESS' table.

Address Table Structure:

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1 CUSTOMERS_ID	VARCHAR2(20 BYTE)	Yes	(null)	1	(null)
2 STREET	VARCHAR2(20 BYTE)	Yes	(null)	2	(null)
3 STREET_NO	NUMBER(5,0)	Yes	(null)	3	(null)
4 CITY	VARCHAR2(20 BYTE)	Yes	(null)	4	(null)
5 ADDRESS_STATE	VARCHAR2(20 BYTE)	Yes	(null)	5	(null)
6 ZIPCODE	NUMBER(5,0)	Yes	(null)	6	(null)

address table

The screenshot shows the Oracle SQL Developer interface. On the left, the Connections sidebar shows a connection to 'fourier.cs.iit.edu'. The central pane displays data from the 'ADDRESS' table.

Address Table Data:

CUSTOMERS_ID	STREET	STREET_NO	CITY	ADDRESS...	ZIPCODE
1 36	S Wabash	27	Chicago	I1	60616

The screenshot shows the Oracle SQL Developer interface. On the left, the Connections pane displays a connection to 'fourier.cs.it.edu'. The Tables (Filtered) section is expanded, showing tables like ADDRESS, CARDS, CUSTOMERS, etc. The CARDS table is selected, and its structure is shown in the main pane. The CARDS table has five columns:

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
CARD_NO	NUMBER(16,0)	No	(null)	1	(null)
CUSTOMERS_ID	VARCHAR2(20 BYTE)	Yes	(null)	2	(null)
CARDHOLDER_NAME	VARCHAR2(30 BYTE)	Yes	(null)	3	(null)
EXPIRYDATE	NUMBER(6,0)	Yes	(null)	4	(null)
CVV	NUMBER(3,0)	Yes	(null)	5	(null)

card table

The screenshot shows the Oracle SQL Developer interface. On the left, the Connections pane displays a connection to 'fourier.cs.it.edu'. The Tables (Filtered) section is expanded, showing tables like ADDRESS, CARDS, CUSTOMERS, etc. The CUSTOMERS table is selected, and its structure is shown in the main pane. The CUSTOMERS table has four columns:

CUSTOMER_ID	CUSTOMER_NAME	MAIL_ID	PASSWORD
1	36	Jinze Dai	jda1@gmail.com
			ertyu

customers table

Connections

The screenshot shows the Oracle SQL Developer interface. On the left, the Connections pane displays a connection to 'fourier.cs.iit.edu'. The central area shows the 'EMPLOYEE' table with the following data:

	EMPLOYEE_ID	EMPLOYEE_NAME	PASSWORD
1	jin	123	
2	dai	234	
3	zhe	345	
4	sapto	456	
5	xiao	567	
6	xulin	678	

employee table

Connections

The screenshot shows the Oracle SQL Developer interface. On the left, the Connections pane displays a connection to 'fourier.cs.iit.edu'. The central area shows the 'ORDERS' table with the following data:

	ORDER_ID	ISSUE_DATE	DELIVERY_DATE	SHIPTO_CUST_ID	TOTAL_COST
1	1	2017-12-04	2017-12-04	3241	S...
					300

orders table

Connections

fourier.cs.iit.edu

- Tables (Filtered)
 - ADDRESS
 - CARDS
 - CARD_NO
 - CUSTOMERS_ID
 - CARDHOLDER_NAME
 - EXPIRYDATE
 - CIV
 - CUSTOMERS
 - EMPLOYEE
 - EMPLOYEE_ID
 - EMPLOYEE_NAME
 - PASSWORD
 - ORDERS
 - PRODUCT
 - PROD_ID
 - PROD_NAME
 - PRICE
 - PROD_SIZE
 - PROD_CAT
 - PROD_INFO
 - PROD_TYPE

Reports

All Reports

Start Page

fourier.cs.iit.edu.sql

fourier.cs.iit.edu

PRODUCT

Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL

Sort.. Filter:

PROD_ID	PROD_NAME	PRICE	PROD_SIZE	PROD_CAT	PROD_INFO	PROD_TYPE
1 9	hoodie	35 L	clothes		made in... Anta	
2 8	jacket	50 L	clothes		made in... LiNing	
3 7	pants	24 S	clothes		made in UK Zara	
4 6	coat	70 M	clothes		made in... H&M	
5 5	T-shirt	20 M	clothes		made in US champion	
6 4	pants	50 XL	clothes		made in... addidas	
7 3	pants	32 B	clothes		heihai nike	
8 20	apple	5 B	fruits		from Ch... Walimart	
9 2	parka	132 S	clothes		haha nike	
10 19	peach	1 S	fruits		from Ch... Target	
11 18	grape	1 B	fruits		from Ch... Target	
12 17	peach	2 S	fruits		from China HongFuShi	
13 16	apple	3 B	fruits		from China HongFuShi	
14 15	grape	2 S	fruits		from China WuShiKang	
15 14	pear	1 B	fruits		from Ch... Target	
16 13	orange	1 B	fruits		from Ch... Cermark	
17 12	banana	2 S	fruits		from Ch... Walimart	
18 11	apple	300 B	fruits		from Ch... Target	
19 10	sweater	65 L	clothes		made in... Champion	
20 1	parka	111 M	clothes		hah nike	

product table

Connections

fourier.cs.iit.edu

- Tables (Filtered)
 - ADDRESS
 - CARDS
 - CARD_NO
 - CUSTOMERS_ID
 - CARDHOLDER_NAME
 - EXPIRYDATE
 - CIV
 - CUSTOMERS
 - EMPLOYEE
 - EMPLOYEE_ID
 - EMPLOYEE_NAME
 - PASSWORD
 - ORDERS
 - PRODUCT
 - PRODUCTPRICING
 - STOCK
 - PROD_ID
 - QUANTITY
 - STORE
 - SUPPLIER
 - WAREHOUSE

Start Page

fourier.cs.iit.edu.sql

fourier.cs.iit.edu

STOCK

Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL

Sort.. Filter:

PROD_ID	QUANTITY
1 1	100
2 2	100
3 3	100
4 4	100
5 5	100
6 6	100
7 7	100
8 8	100
9 9	100
10 10	100
11 11	100
12 12	200
13 13	200
14 14	200
15 15	200
16 16	200
17 17	200
18 18	200
19 19	200
...	...

stock table

The screenshot shows the Oracle SQL Developer interface. On the left, the 'Connections' sidebar lists various database objects: CUSTOMERS, CARDHOLDER_NAME, EXPIRYDATE, CVV, CUSTOMERS, EMPLOYEE, ORDERS, PRODUCT, PRODUCTPRICING, STOCK, STORE, SUPPLIER, and WAREHOUSE. Below these are Views, Editing Views, Indexes, and Packages. The main panel displays the 'STORE' table with two columns: STORE_ID and STORE_NAME. The data is as follows:

		STORE_ID	STORE_NAME
1	1	1	nike
2	2	2	addidas
3	3	3	LiNing
4	4	4	Walmart
5	5	5	champion
6	6	6	DJZ
7	7	7	H&M
8	8	8	Zara
9	9	9	J2
10	10	10	Anta
11	11	11	Champion
12	12	12	Target
13	13	13	Warlmart
14	14	14	Cermark
15	15	15	Target
16	16	16	WuShiKang
17	17	17	HongFuShi

store table

Task assignment:

We divided the project into 3 parts. Saptarshi Banerjee and Jingzhe Dai did the JDBC, JSP and demo the function using vedio, Yulin Xiao did ER diagram, create database and write the report.