

## PT UOE BScCS 2\_CE212 Main CW2

ONGHU82900

The Web application uses one database pizza with 2 tables:

The screenshot shows the phpMyAdmin interface. On the left, a tree view shows the 'pizza' database with tables 'customer' and 'ordercart'. The 'customer' table is selected, and its structure is shown on the right. The table has columns: Id, username, password, firstname, lastname, email, address, and country. Below the column list, two rows of data are displayed. The first row has Id 1, username 'peter', password '1234', firstname 'Peter', lastname 'Tan', email 'peter@gmail.com', address 'Jurong', and country 'Singapore'. The second row has Id 6, username 'wilson', password '1234', firstname 'wilson', lastname 'wilson', email 'wilson', address 'wilson', and country 'Singapore'. Below the data, there are controls for 'Check all', 'With selected', 'Edit', 'Copy', 'Delete', and 'Export'. At the bottom, there are controls for 'Show all', 'Number of rows' (set to 25), 'Filter rows' (a search box), and 'Sort by key' (set to None).

	Id	username	password	firstname	lastname	email	address	country
<input type="checkbox"/>	1	peter	1234	Peter	Tan	peter@gmail.com	Jurong	Singapore
<input type="checkbox"/>	6	wilson	1234	wilson	wilson	wilson	wilson	Singapore

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	Id	int(11)			No	None		AUTO_INCREMENT	Change
<input type="checkbox"/>	2	username	varchar(30)	utf8mb4_general_ci		No	None			Change
<input type="checkbox"/>	3	password	varchar(30)	utf8mb4_general_ci		No	None			Change
<input type="checkbox"/>	4	firstname	varchar(30)	utf8mb4_general_ci		No	None			Change
<input type="checkbox"/>	5	lastname	varchar(30)	utf8mb4_general_ci		No	None			Change
<input type="checkbox"/>	6	email	varchar(30)	utf8mb4_general_ci		No	None			Change
<input type="checkbox"/>	7	address	varchar(30)	utf8mb4_general_ci		No	None			Change
<input type="checkbox"/>	8	country	varchar(30)	utf8mb4_general_ci		No	None			Change

customer Table – has 8 keys

Id(PK), username, password, firstname, lastname, email, address, country

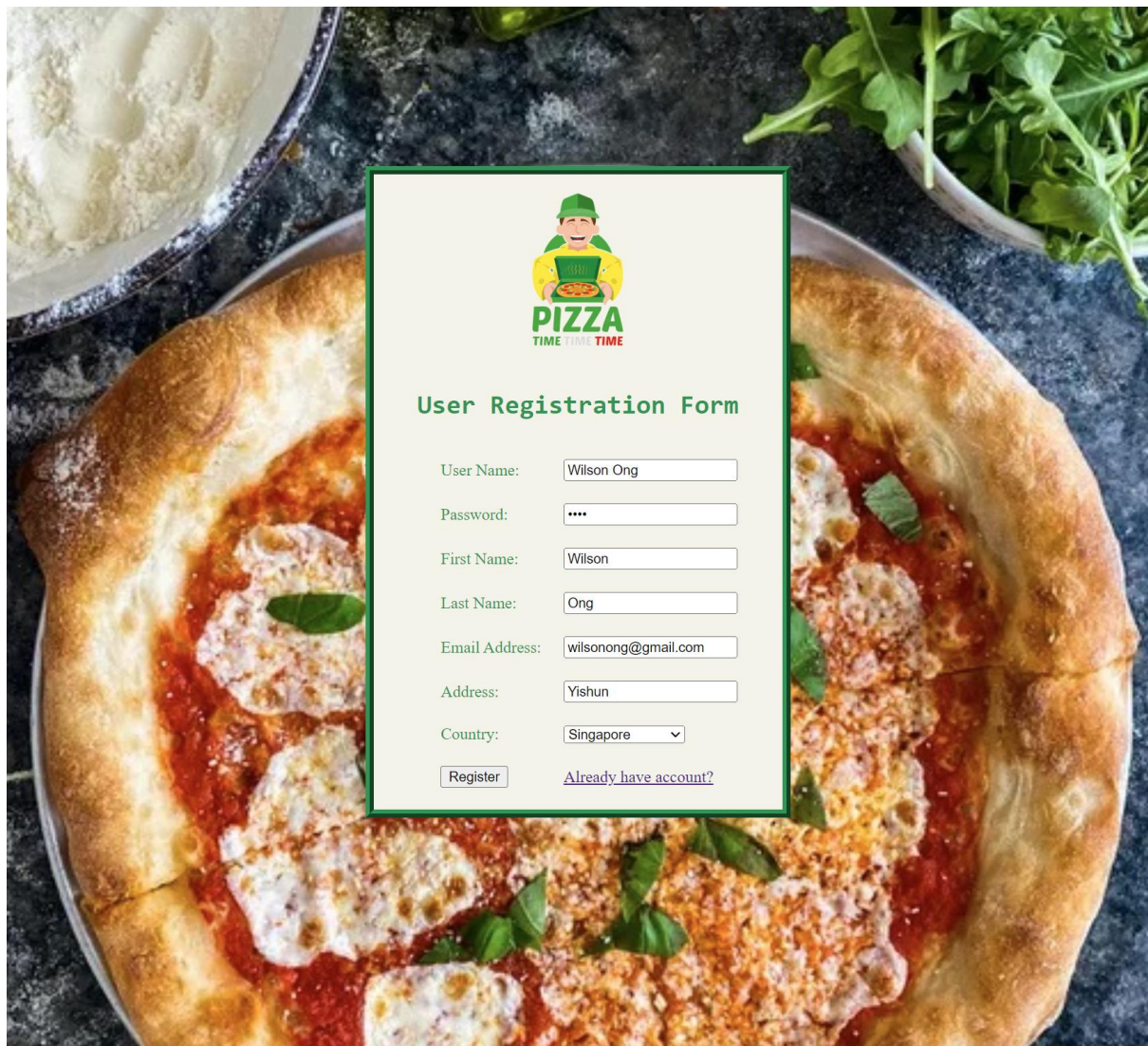


The program starts off from index.jsp with the Login Page



For first time users, click on the [Sign Up now](#) button to register.





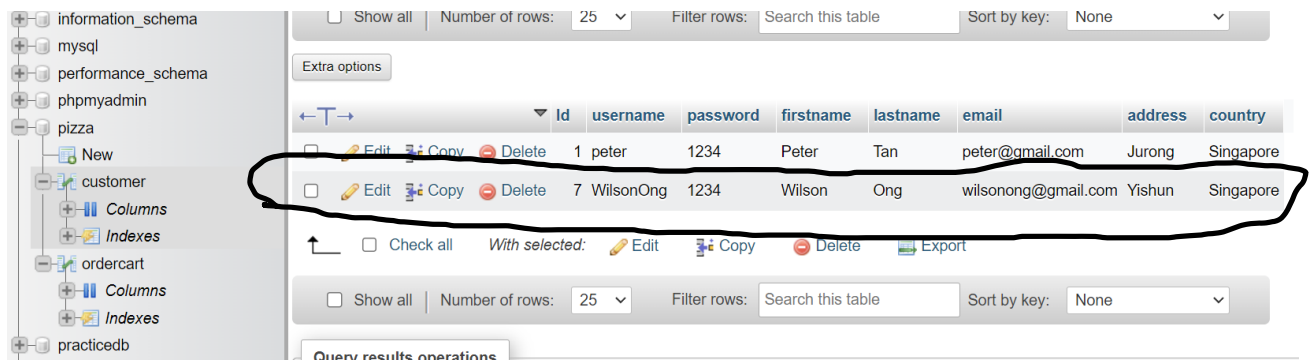
After clicking on the [Sign Up now](#) button, you will be brought to the RegistrationPage.jsp

Over here, enter all the necessary details to Sign Up for an account.

An example will be used.

The username is WilsonOng

Password is 1234



The screenshot shows the phpMyAdmin interface. On the left is a sidebar with a tree view of databases and tables. The 'pizza' database is selected, and the 'customer' table is highlighted. The main area displays the 'customer' table with two rows. The first row has Id 1, username 'peter', password '1234', firstname 'Peter', lastname 'Tan', email 'peter@gmail.com', address 'Jurong', and country 'Singapore'. The second row has Id 7, username 'WilsonOng', password '1234', firstname 'Wilson', lastname 'Ong', email 'wilsonong@gmail.com', address 'Yishun', and country 'Singapore'. This second row is circled in black. Above the table are controls for 'Show all', 'Number of rows' (set to 25), 'Filter rows' (a search box), and 'Sort by key' (set to None). Below the table are 'Extra options' and 'Query results operations' sections.

	Id	username	password	firstname	lastname	email	address	country
<input type="checkbox"/>	1	peter	1234	Peter	Tan	peter@gmail.com	Jurong	Singapore
<input type="checkbox"/>	7	WilsonOng	1234	Wilson	Ong	wilsonong@gmail.com	Yishun	Singapore

After the details are filled up, press register and all the information will be stored in customer table of the database using RegistrationServlet.java

A unique Id will be given to the new customer.



You will be brought back to the Login Page.

Here, enter WilsonOng as Username as 1234 as Password to proceed.

LoginServlet.java will process the parameters and do a validation against the database.

If user name or password is entered wrongly, a response page will show Customer not found.

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Customer not found

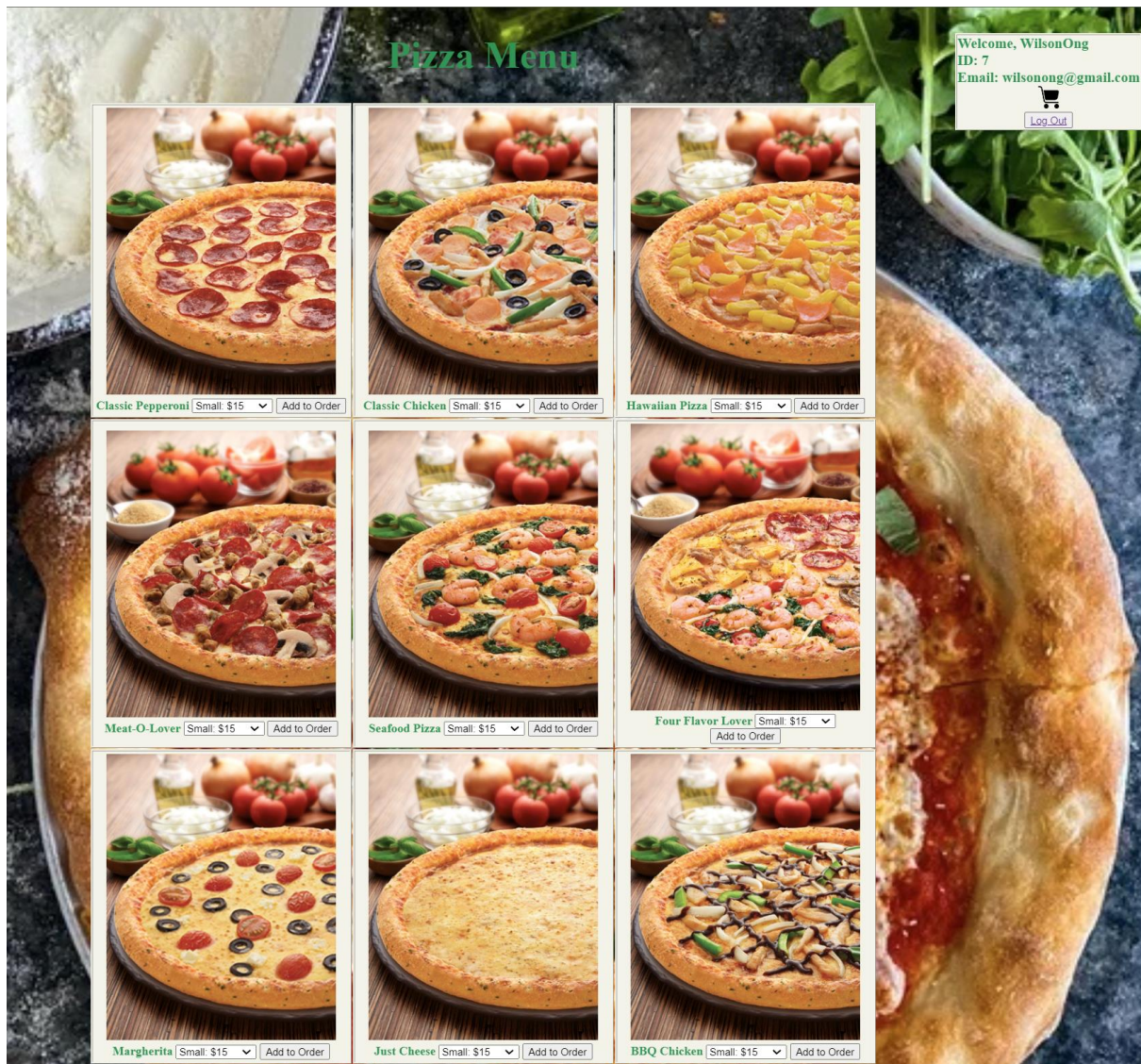


After a successful login, you will be brought to the OrderMenu.jsp

A session will also be created under your username

On the top right will show your username, id, email address, OrderCart and LogOut button.

The menu will consist of 9 pizzas for you to order.



Each Pizza will have 3 sizes to choose from:

Small \$15

Medium \$20

Large \$30

After you've done choosing the size, click on Add to Order to add to the OrderCart.

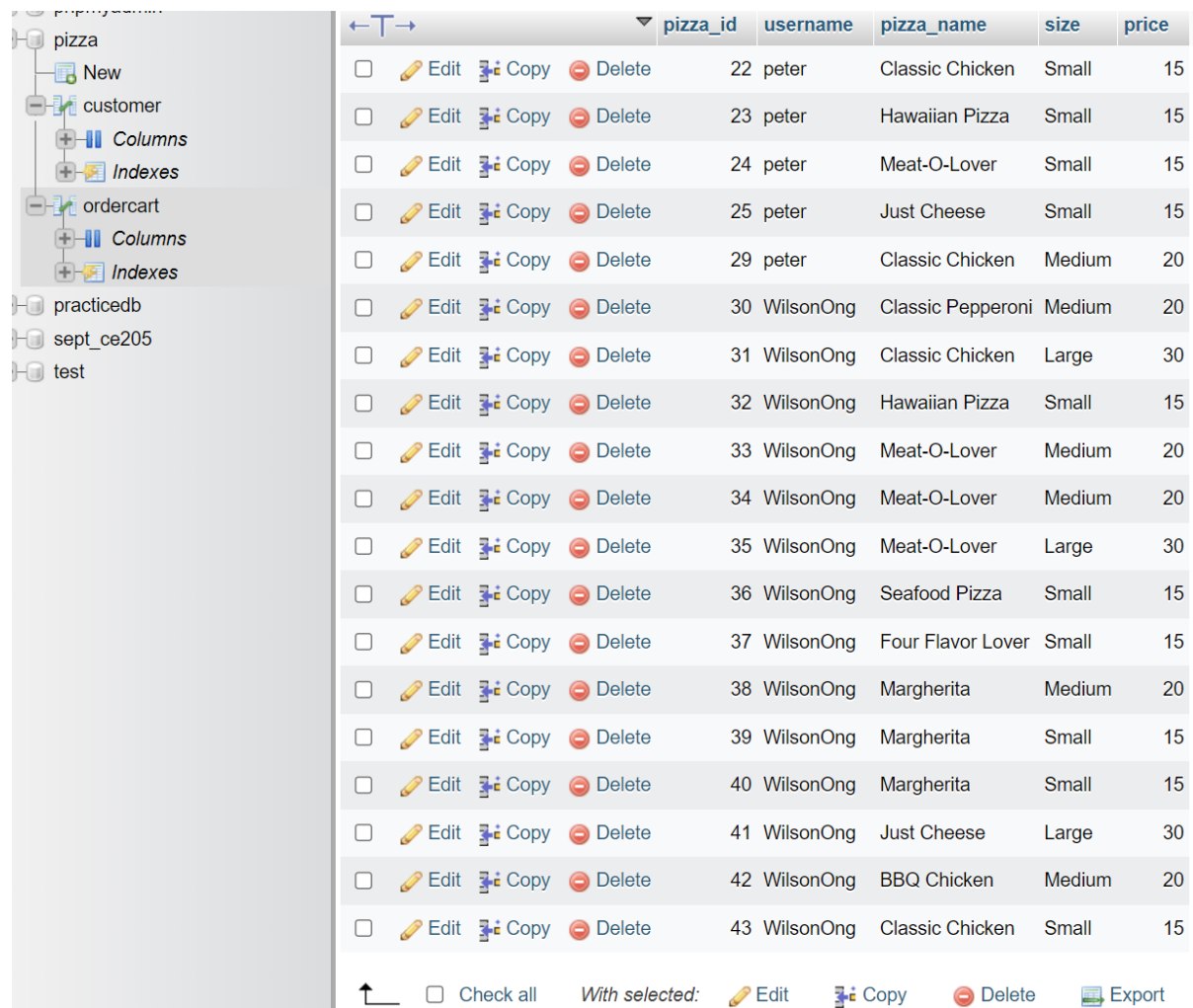


**Classic Pepperoni**

Small: \$15	▼	Add to Order
Small: \$15		
Medium: \$20		
Large: \$30		



After clicking on Add to Order, PizzaOrderServlet.java will run and insert the Pizza class into the ordercart Table in the database. We will add multiple pizzas for testing purposes



					pizza_id	username	pizza_name	size	price
<input type="checkbox"/>					22	peter	Classic Chicken	Small	15
<input type="checkbox"/>					23	peter	Hawaiian Pizza	Small	15
<input type="checkbox"/>					24	peter	Meat-O-Lover	Small	15
<input type="checkbox"/>					25	peter	Just Cheese	Small	15
<input type="checkbox"/>					29	peter	Classic Chicken	Medium	20
<input type="checkbox"/>					30	WilsonOng	Classic Pepperoni	Medium	20
<input type="checkbox"/>					31	WilsonOng	Classic Chicken	Large	30
<input type="checkbox"/>					32	WilsonOng	Hawaiian Pizza	Small	15
<input type="checkbox"/>					33	WilsonOng	Meat-O-Lover	Medium	20
<input type="checkbox"/>					34	WilsonOng	Meat-O-Lover	Medium	20
<input type="checkbox"/>					35	WilsonOng	Meat-O-Lover	Large	30
<input type="checkbox"/>					36	WilsonOng	Seafood Pizza	Small	15
<input type="checkbox"/>					37	WilsonOng	Four Flavor Lover	Small	15
<input type="checkbox"/>					38	WilsonOng	Margherita	Medium	20
<input type="checkbox"/>					39	WilsonOng	Margherita	Small	15
<input type="checkbox"/>					40	WilsonOng	Margherita	Small	15
<input type="checkbox"/>					41	WilsonOng	Just Cheese	Large	30
<input type="checkbox"/>					42	WilsonOng	BBQ Chicken	Medium	20
<input type="checkbox"/>					43	WilsonOng	Classic Chicken	Small	15

☐ Check all    With selected:    Edit    Copy    Delete    Export

After every Add Order, you will be brought to Response.jsp which will alert you that the order has been added. Click on Back to Order Menu to return to the Order Menu to make another order or to view OrderCart.

## Order added

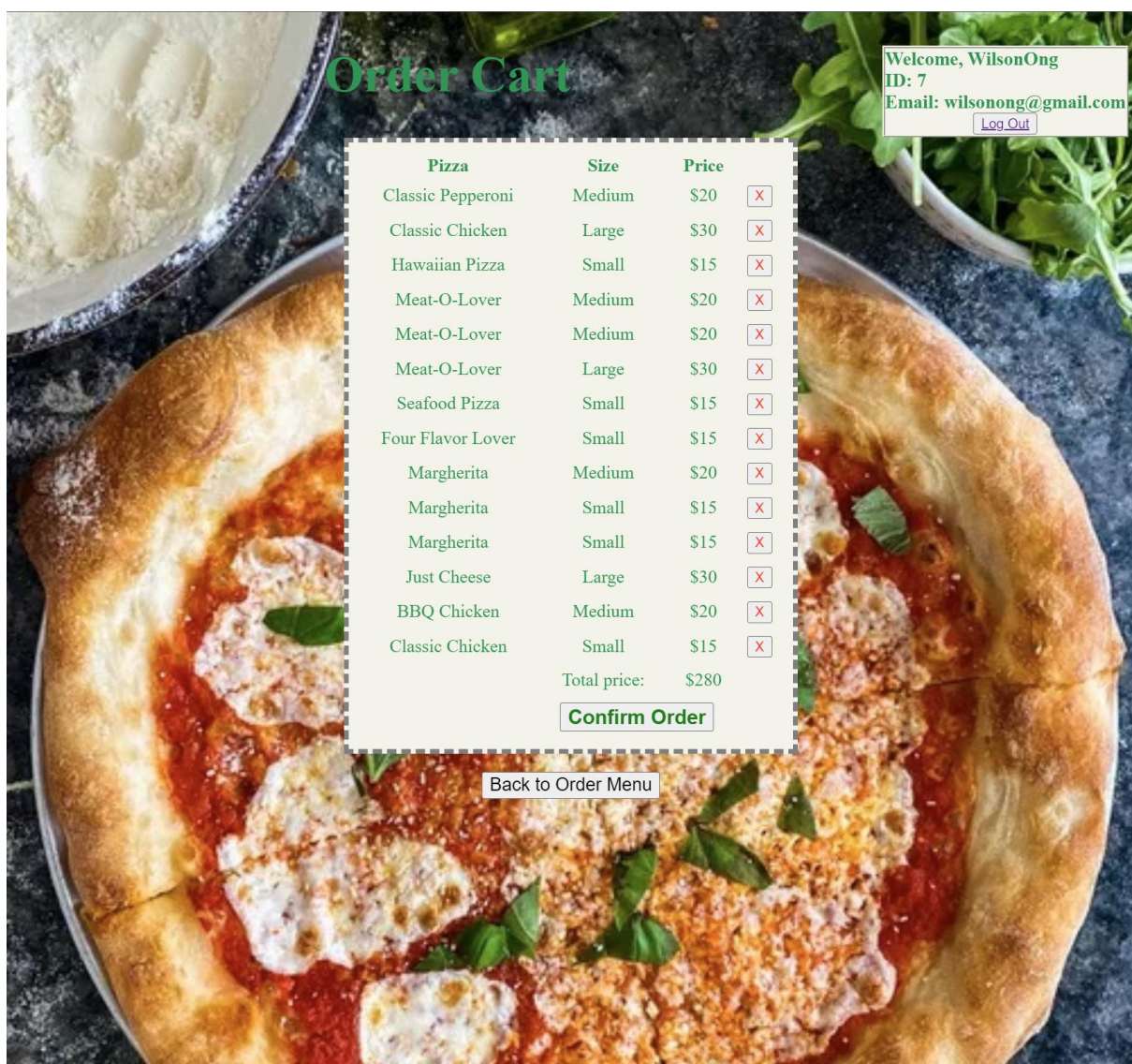
[Back to Order Menu](#)

To go to the OrderCart, click on the trolley icon on the top right hand corner of the page.



OrderCartServlet.java will be called to take in all the data from ordercart Table based on the username and return a List<Pizza> as a session attribute.

OrderCart.jsp will populate the table based on the List<Pizza>

A screenshot of the 'Order Cart' page. The background is a large image of a pizza. Overlaid on this is a white box with a green border containing the title 'Order Cart' in green. Below the title is a table with columns 'Pizza', 'Size', 'Price', and a delete button (X). The table lists 14 items. At the bottom of the table is 'Total price: \$280' and a 'Confirm Order' button. Below the table is a 'Back to Order Menu' button. In the top right corner, there is a user profile box with 'Welcome, WilsonOng', 'ID: 7', 'Email: wilsonong@gmail.com', and a 'Log Out' button.

Pizza	Size	Price	
Classic Pepperoni	Medium	\$20	X
Classic Chicken	Large	\$30	X
Hawaiian Pizza	Small	\$15	X
Meat-O-Lover	Medium	\$20	X
Meat-O-Lover	Medium	\$20	X
Meat-O-Lover	Large	\$30	X
Seafood Pizza	Small	\$15	X
Four Flavor Lover	Small	\$15	X
Margherita	Medium	\$20	X
Margherita	Small	\$15	X
Margherita	Small	\$15	X
Just Cheese	Large	\$30	X
BBQ Chicken	Medium	\$20	X
Classic Chicken	Small	\$15	X
Total price:		\$280	

[Confirm Order](#)

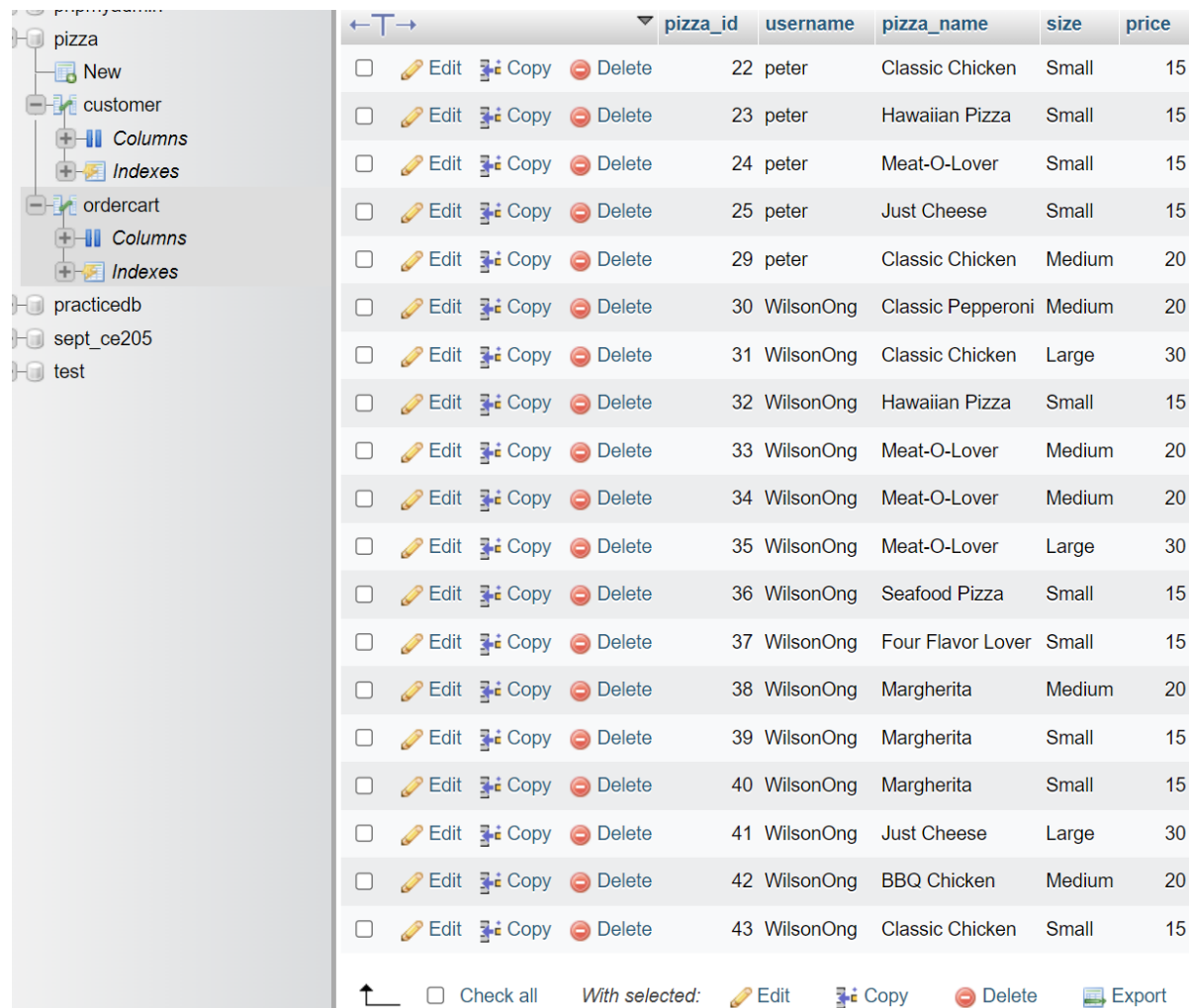
[Back to Order Menu](#)

Notice that there are only 14 orders in the orderCart instead of 19 in the database.

The SQL query only takes from ordercart Table data which contains WilsonOng as the username.

So the ordercart can hold multiple orders from different customers and only shown to those customers who have similar username in the session.

Each pizza order has its own unique pizza\_id, this is used in the OrderCart.jsp to find the specific pizza to be deleted from the database.



					pizza_id	username	pizza_name	size	price
<input type="checkbox"/>	Edit	Copy	Delete		22	peter	Classic Chicken	Small	15
<input type="checkbox"/>	Edit	Copy	Delete		23	peter	Hawaiian Pizza	Small	15
<input type="checkbox"/>	Edit	Copy	Delete		24	peter	Meat-O-Lover	Small	15
<input type="checkbox"/>	Edit	Copy	Delete		25	peter	Just Cheese	Small	15
<input type="checkbox"/>	Edit	Copy	Delete		29	peter	Classic Chicken	Medium	20
<input type="checkbox"/>	Edit	Copy	Delete		30	WilsonOng	Classic Pepperoni	Medium	20
<input type="checkbox"/>	Edit	Copy	Delete		31	WilsonOng	Classic Chicken	Large	30
<input type="checkbox"/>	Edit	Copy	Delete		32	WilsonOng	Hawaiian Pizza	Small	15
<input type="checkbox"/>	Edit	Copy	Delete		33	WilsonOng	Meat-O-Lover	Medium	20
<input type="checkbox"/>	Edit	Copy	Delete		34	WilsonOng	Meat-O-Lover	Medium	20
<input type="checkbox"/>	Edit	Copy	Delete		35	WilsonOng	Meat-O-Lover	Large	30
<input type="checkbox"/>	Edit	Copy	Delete		36	WilsonOng	Seafood Pizza	Small	15
<input type="checkbox"/>	Edit	Copy	Delete		37	WilsonOng	Four Flavor Lover	Small	15
<input type="checkbox"/>	Edit	Copy	Delete		38	WilsonOng	Margherita	Medium	20
<input type="checkbox"/>	Edit	Copy	Delete		39	WilsonOng	Margherita	Small	15
<input type="checkbox"/>	Edit	Copy	Delete		40	WilsonOng	Margherita	Small	15
<input type="checkbox"/>	Edit	Copy	Delete		41	WilsonOng	Just Cheese	Large	30
<input type="checkbox"/>	Edit	Copy	Delete		42	WilsonOng	BBQ Chicken	Medium	20
<input type="checkbox"/>	Edit	Copy	Delete		43	WilsonOng	Classic Chicken	Small	15

↑ ☐ Check all With selected: Edit Copy Delete Export



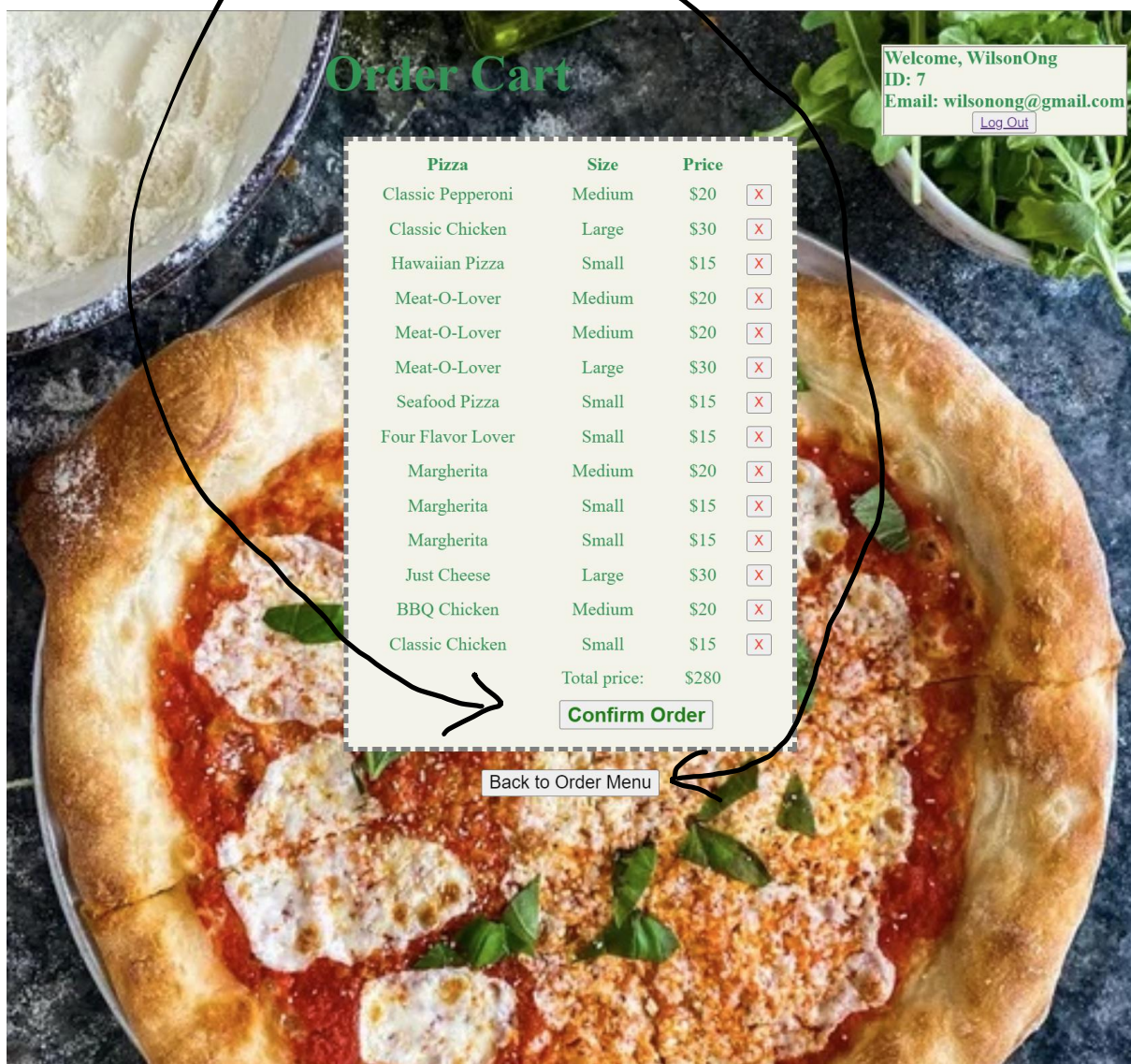
In the OrderCart.jsp. We have the session login details at the top right including the logout button.

In the order cart we have the Pizza Name, Size and Price. On the right of every pizza is the X button. This will cancel the particular order by running DeletePizzaServlet.java.

It deletes the order from the database and will call on OrderCartServlet.java to repopulate OrderCart.jsp.


















The Total amount is shown at the bottom page.

There is also a Confirm Button Order and Back to Order Menu button.



We can try deleting all the Meat-O-Lover and Margherita Pizza.

Before

<input type="checkbox"/>	 Edit	 Copy	 Delete	30	WilsonOng	Classic Pepperoni	Medium	20
<input type="checkbox"/>	 Edit	 Copy	 Delete	31	WilsonOng	Classic Chicken	Large	30
<input type="checkbox"/>	 Edit	 Copy	 Delete	32	WilsonOng	Hawaiian Pizza	Small	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	33	WilsonOng	Meat-O-Lover	Medium	20
<input type="checkbox"/>	 Edit	 Copy	 Delete	34	WilsonOng	Meat-O-Lover	Medium	20
<input type="checkbox"/>	 Edit	 Copy	 Delete	35	WilsonOng	Meat-O-Lover	Large	30
<input type="checkbox"/>	 Edit	 Copy	 Delete	36	WilsonOng	Seafood Pizza	Small	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	37	WilsonOng	Four Flavor Lover	Small	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	38	WilsonOng	Margherita	Medium	20
<input type="checkbox"/>	 Edit	 Copy	 Delete	39	WilsonOng	Margherita	Small	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	40	WilsonOng	Margherita	Small	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	41	WilsonOng	Just Cheese	Large	30
<input type="checkbox"/>	 Edit	 Copy	 Delete	42	WilsonOng	BBQ Chicken	Medium	20
<input type="checkbox"/>	 Edit	 Copy	 Delete	43	WilsonOng	Classic Chicken	Small	15

# Order Cart

Pizza	Size	Price	
Classic Pepperoni	Medium	\$20	<input type="button" value="X"/>
Classic Chicken	Large	\$30	<input type="button" value="X"/>
Hawaiian Pizza	Small	\$15	<input type="button" value="X"/>
Meat-O-Lover	Medium	\$20	<input type="button" value="X"/>
Meat-O-Lover	Medium	\$20	<input type="button" value="X"/>
Meat-O-Lover	Large	\$30	<input type="button" value="X"/>
Seafood Pizza	Small	\$15	<input type="button" value="X"/>
Four Flavor Lover	Small	\$15	<input type="button" value="X"/>
Margherita	Medium	\$20	<input type="button" value="X"/>
Margherita	Small	\$15	<input type="button" value="X"/>
Margherita	Small	\$15	<input type="button" value="X"/>
Just Cheese	Large	\$30	<input type="button" value="X"/>
BBQ Chicken	Medium	\$20	<input type="button" value="X"/>
Classic Chicken	Small	\$15	<input type="button" value="X"/>
Total price:		\$280	

Confirm Order

Back to Order Menu

## After

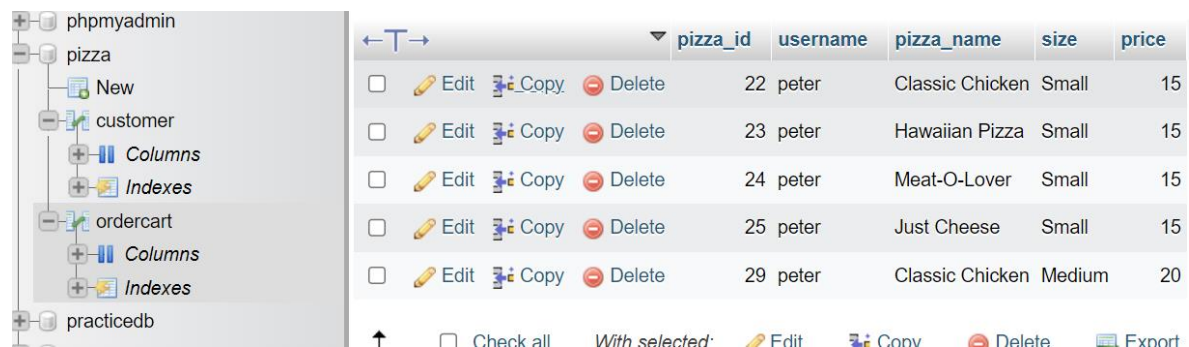
<input type="checkbox"/>	 Edit	 Copy	 Delete	30	WilsonOng	Classic Pepperoni	Medium	20
<input type="checkbox"/>	 Edit	 Copy	 Delete	31	WilsonOng	Classic Chicken	Large	30
<input type="checkbox"/>	 Edit	 Copy	 Delete	32	WilsonOng	Hawaiian Pizza	Small	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	36	WilsonOng	Seafood Pizza	Small	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	37	WilsonOng	Four Flavor Lover	Small	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	41	WilsonOng	Just Cheese	Large	30
<input type="checkbox"/>	 Edit	 Copy	 Delete	42	WilsonOng	BBQ Chicken	Medium	20
<input type="checkbox"/>	 Edit	 Copy	 Delete	43	WilsonOng	Classic Chicken	Small	15

# Order Cart

Pizza	Size	Price	
Classic Pepperoni	Medium	\$20	<input type="button" value="X"/>
Classic Chicken	Large	\$30	<input type="button" value="X"/>
Hawaiian Pizza	Small	\$15	<input type="button" value="X"/>
Seafood Pizza	Small	\$15	<input type="button" value="X"/>
Four Flavor Lover	Small	\$15	<input type="button" value="X"/>
Just Cheese	Large	\$30	<input type="button" value="X"/>
BBQ Chicken	Medium	\$20	<input type="button" value="X"/>
Classic Chicken	Small	\$15	<input type="button" value="X"/>
Total price:		\$160	
<input type="button" value="Confirm Order"/>			



The Confirm Button acts as a Buy Button, this will simulate the purchase and call ConfirmOrderServlet.java that will delete will the orders in the ordercart Table as they are supposed to be paid for and will be made and delivered.



					pizza_id	username	pizza_name	size	price
<input type="checkbox"/>	Edit	Copy	Delete		22	peter	Classic Chicken	Small	15
<input type="checkbox"/>	Edit	Copy	Delete		23	peter	Hawaiian Pizza	Small	15
<input type="checkbox"/>	Edit	Copy	Delete		24	peter	Meat-O-Lover	Small	15
<input type="checkbox"/>	Edit	Copy	Delete		25	peter	Just Cheese	Small	15
<input type="checkbox"/>	Edit	Copy	Delete		29	peter	Classic Chicken	Medium	20

↑ ☐ Check all With selected: Edit Copy Delete Export

It will then bring you to the ConfirmOrder.jsp to thank you for you order with a link to bring you back to the Order Menu.

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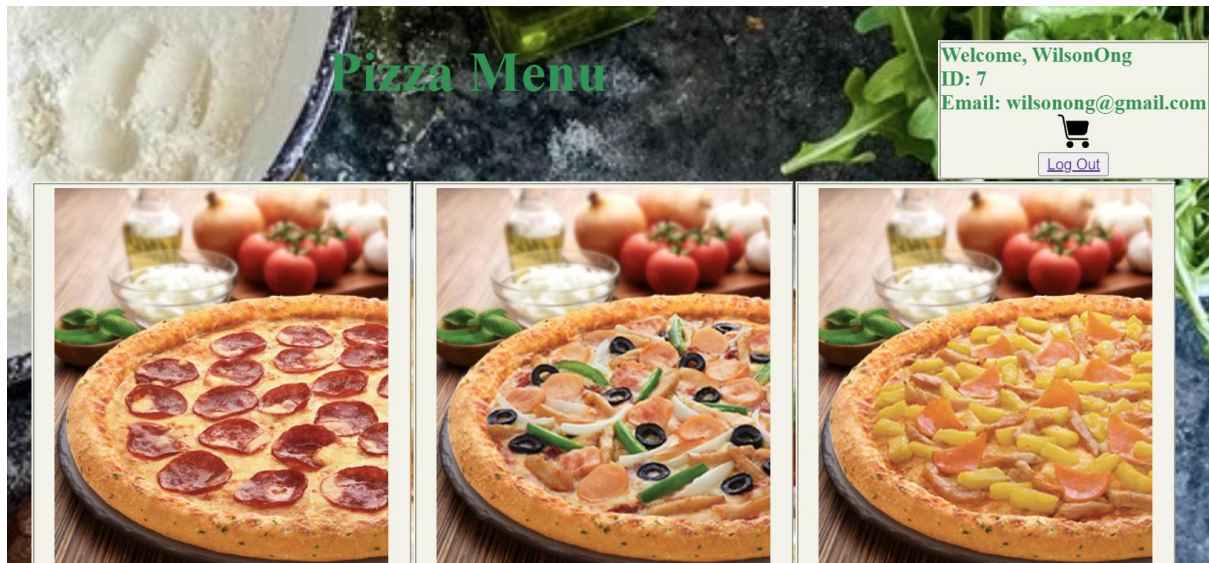
**Thank you for your Order!**

**You will receive your pizza shortly**

[Back to Order Menu](#)

Clicking on the link will bring you back to the order menu.

When the order has been made and you are brought back to the Order Menu, you can click on the Log Out button on the top right hand corner to log out of the session.



This will call on LogoutServlet.java which will close the session and bring you back to the Login Page index.jsp.

