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CST 363
Project: part 2 documentation
October 7, 2019

Overview

The purpose of this website is to provide a database that shows which orders that has been placed for the Zimino Italian cuisine restaurant. This application provides a website with a main webpage, a connect webpage and a menu webpage. In addition to a webpage for the customer to place an order. Another website for the customer to change the customer's order. A website for the customer to cancel his or her order and another website that shows all the orders by the customers.

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Part 1: Project description

1. **The MySQL Tables for this project:**

customer table:

customer_id	Int unsigned not null_auto increment primary key
first	Tinytext - first name
last	Tinytext - last name
menu_id	FOREIGN KEY(menu_id) REFERENCES menu (menu_id)
ordered_id	FOREIGN KEY(ordered_id) REFERENCES ordered (ordered_id)

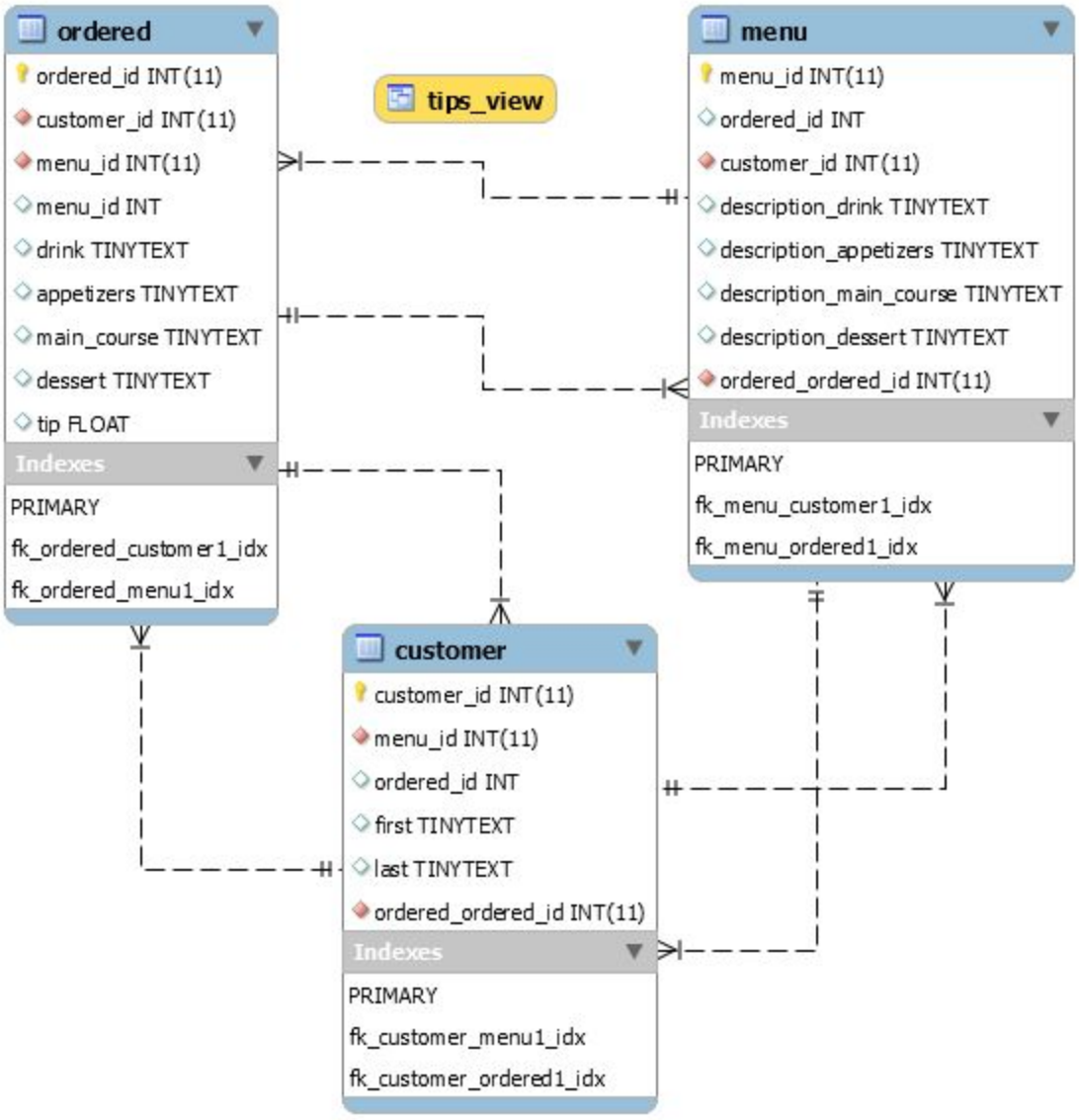
menu table:

menu_id	Int unsigned not null_auto increment primary key
customer_id	FOREIGN KEY(customer_id) REFERENCES customer (customer_id)
description_drink	Tiny text - drinks from the menu
description_appetizers	Tiny text - appetizers from the menu
description_main_course	Tiny text –main courses from the menu
description_dessert	Tiny text – desserts from the menu
ordered_id	FOREIGN KEY(ordered_id) REFERENCES ordered (ordered_id)

ordered Table:

ordered_id	Int unsigned not null_auto increment primary key
customer_id	Int unsigned not null_auto increment foreign key FOREIGN KEY(customer_id) REFERENCES Customer (customer_id) (If the value of the customer_id is zero, then the order has not been placed. If the value of the customer_id is greater than zero, then the order is placed.)
meun_id	Int unsigned not null_auto increment foreign key FOREIGN KEY(menu_id) REFERENCES menu (menu_id) (If the value of the menu_id is zero, then the order has not been placed. If the value of the menu_id is greater than zero, then the order is placed.)
drink	tinytext
appetizers	tinytext
main_course	tinytext
dessert	tinytext
tip	float (use View)

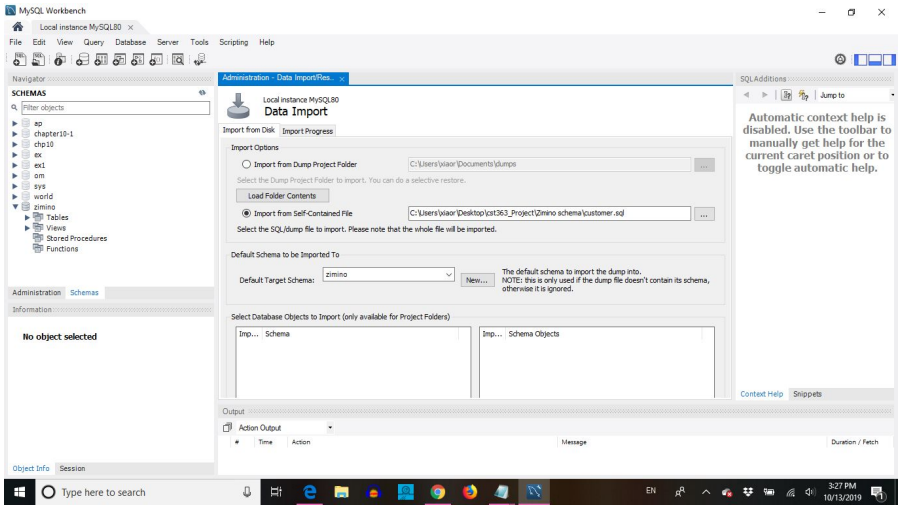
2. **Entity-relationship (ER) diagram:**



3. **Normalization**
    a. This is a normalized design. There are three tables in the Zimino schema. The customer table is used to store the customer's first and last name. The menu table is used to store the Zimino restaurant's menu items. The ordered table is used to store the customer's orders. The tables are limited to different purpose to reduce the redundancy of the data in the Zimino database.

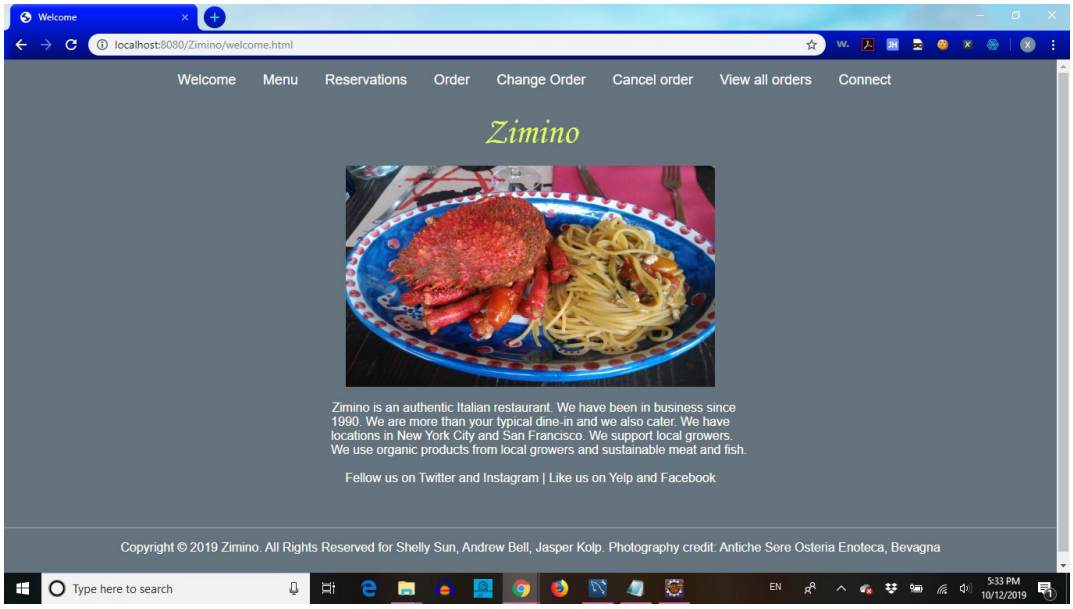
Part 2: How use the program

1. **System requirements:**
    a. Software
        i. Eclipse enterprise version
        ii. Apache Tomcat 8.5 or Apache Tomcat 9.0
        iii. MySQL Workbench 8.0
        iv. MySQL JDBC driver
        v. Windows 10
        vi. Java JRE Server 8
2. **Running this project:**
    a. In MySQL workbench from the Zimino schema folder:
        i. Run create_zimino_schema.sql to initialize the zimino schema.
        ii. Import the zimino tables:
            1. Click on Server, from the drop down list, select Data Import then select Import from Self-Contained File, and import the zimino_customer.sql, zimino_menu.sql, zimino_ordered.sql files into the zimino database.



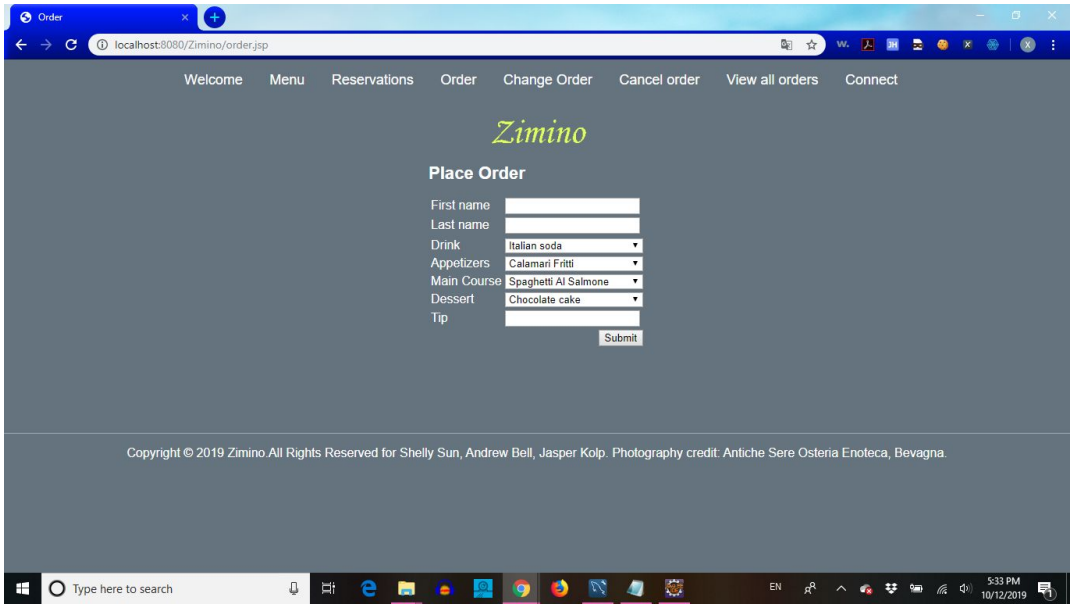
    b. In Eclipse enterprise version:
        i. Import the Zimino folder to initialize the Zimino website project.
            1. Change the passwords in the Java Servlet files, order.jsp, and updateOrder.jsp.

3. Description of the websites with screenshots:

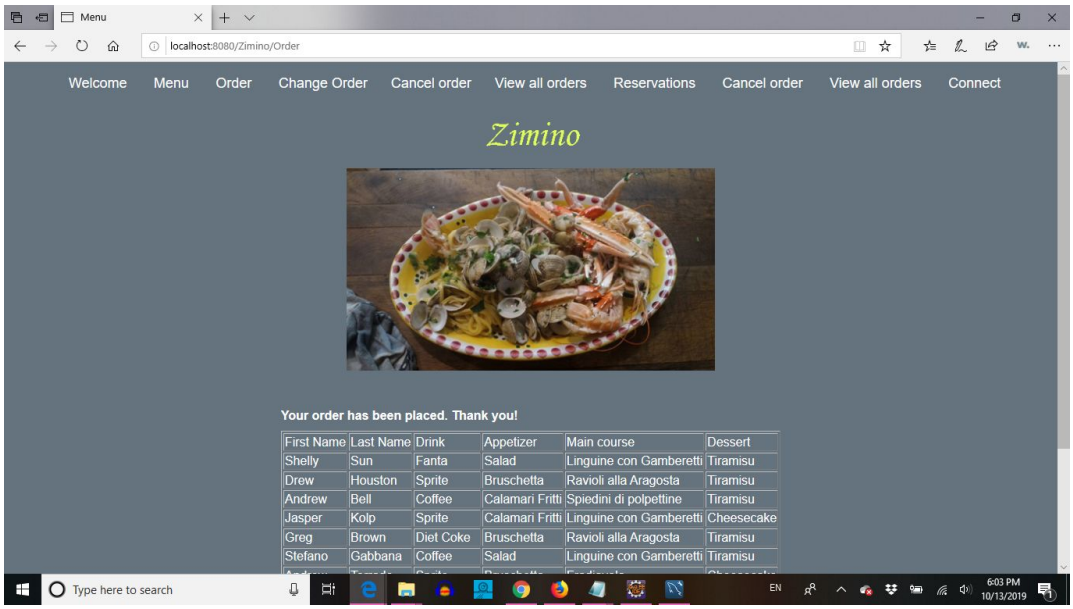


Welcome webpage: This is the main page of the Zimino restaurant database website.

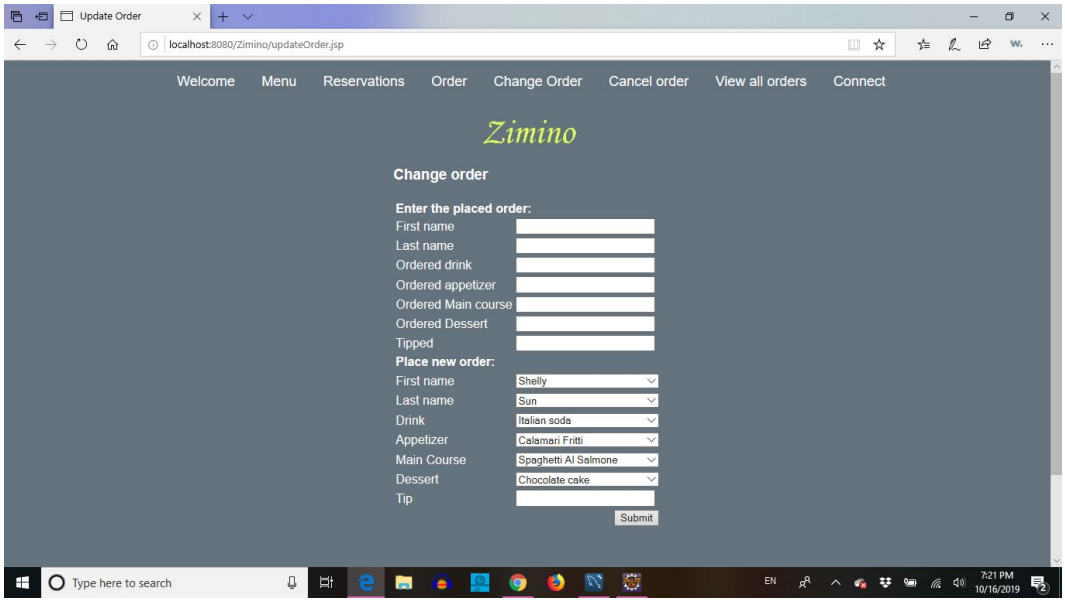
Menu webpage: This is the menu of the Zimino restaurant database website.



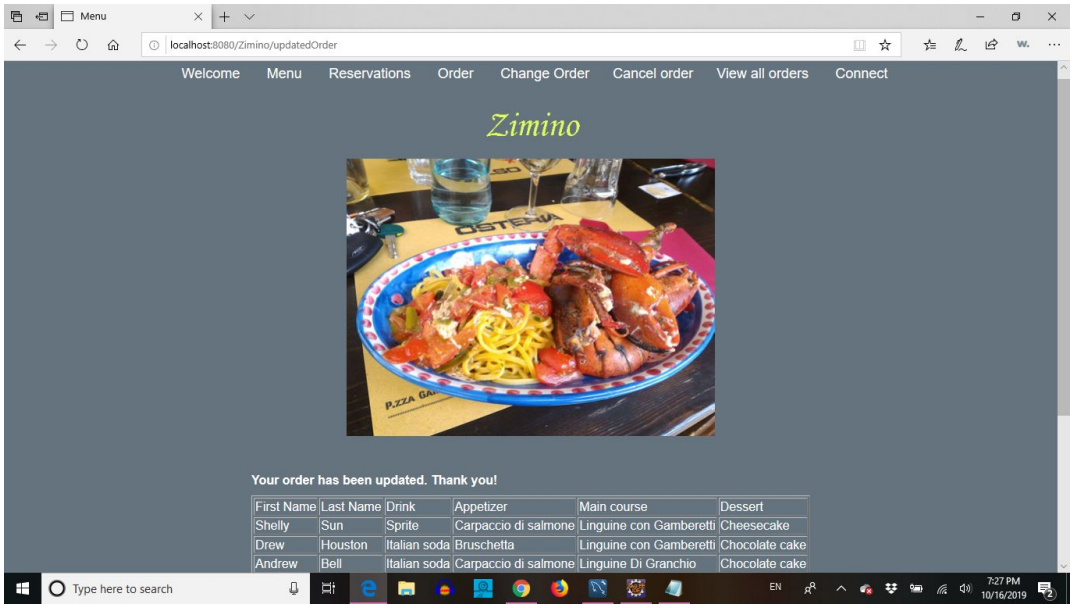
Order webpage: The customer can enter his or her first and last name and tip in the text box. The customer can select from the drop down list of the food items he or she decides to order. The data in the drop down box are retrieved from the menu table. After the customer enters his or her information and his or her order then the customer can use the submit button to place an order.



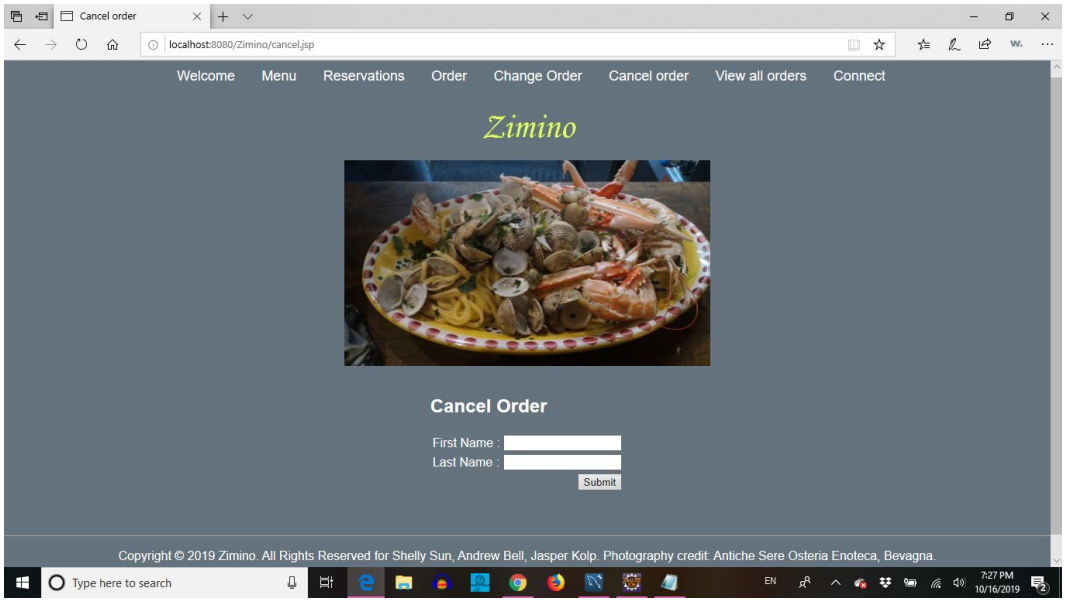
Order Java servlet webpage: The new customer's information and customer's order is retrieved from the order.jsp and it gets stored in the Zimino database in the customer's table and the ordered tabled. This webpage displays the new customer's information and the new order that has been placed. This website also displays all customer's name and all the orders that have been placed.



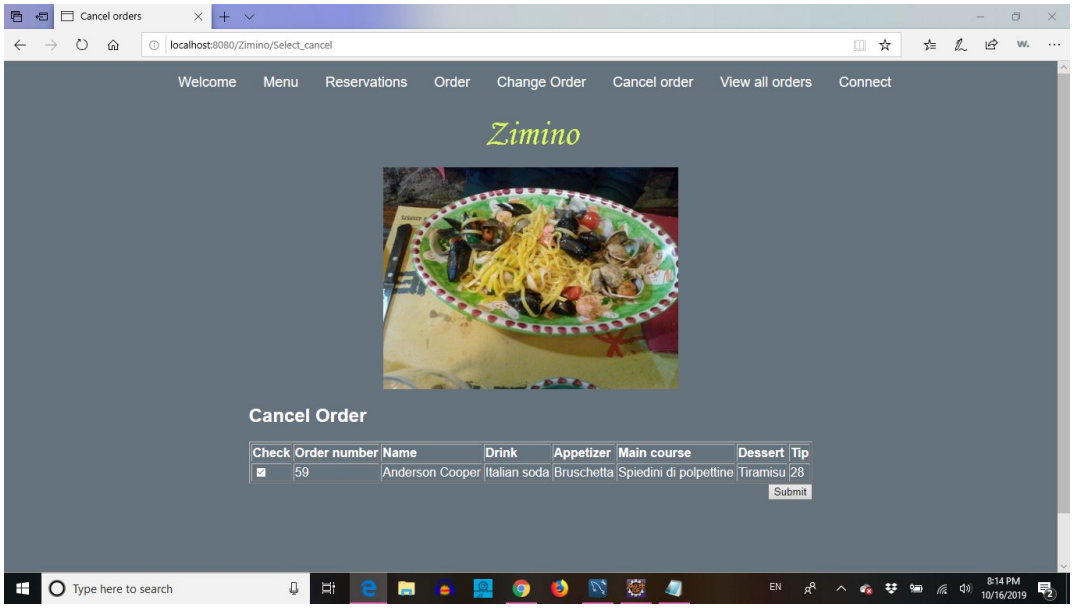
Change orders webpage: This is the change orders webpage. The customer can enter his or her previous order in the text box , then select his or her new order in order to update his or her previous order. The data in the drop down box are from the customer table and the menu table. Then the customer can use the submit button to update his or her order.



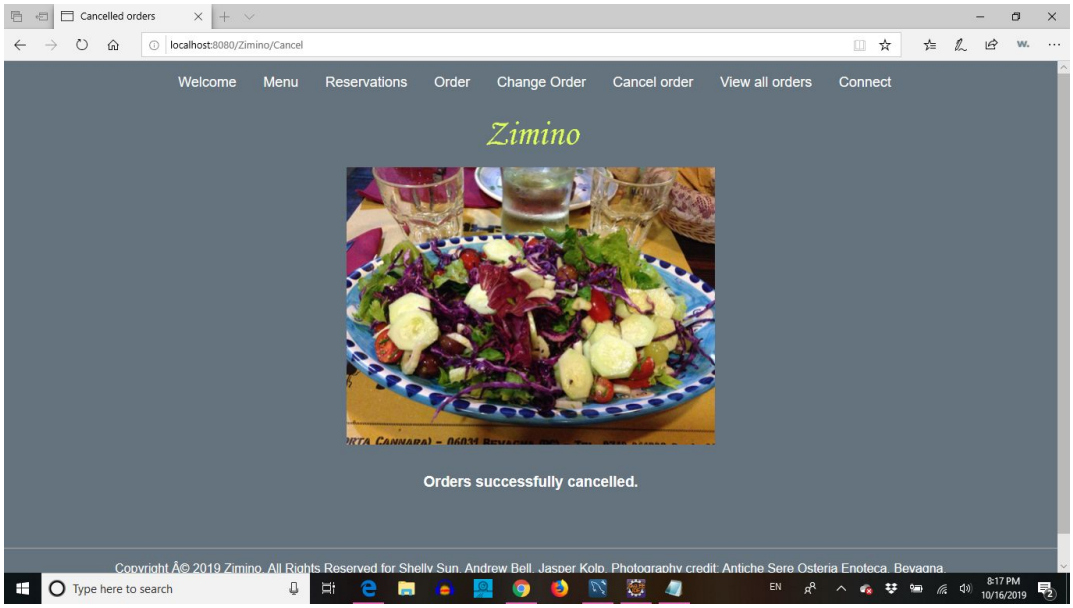
Updated order Java servlet webpage: This website displays the updated dated order the customer added. This webpage also displays all the order that has been placed and the customer's information.



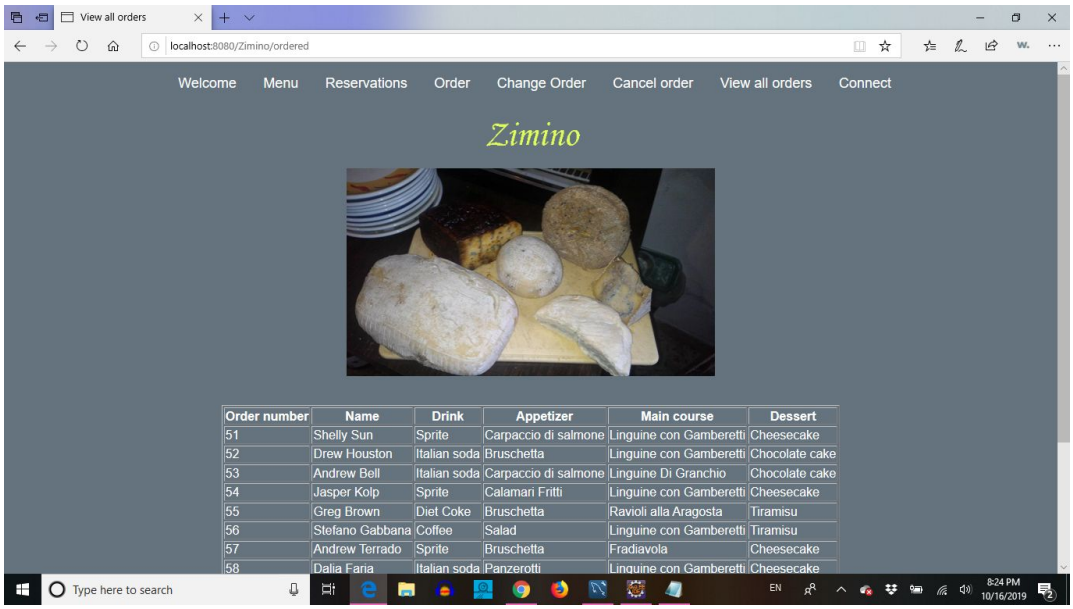
Cancel order webpage: The customer can enters his or her first name and last name to cancel his or her order. After the customer enters his or her first and last name, then the customer can use the submit button to cancel his or her order.



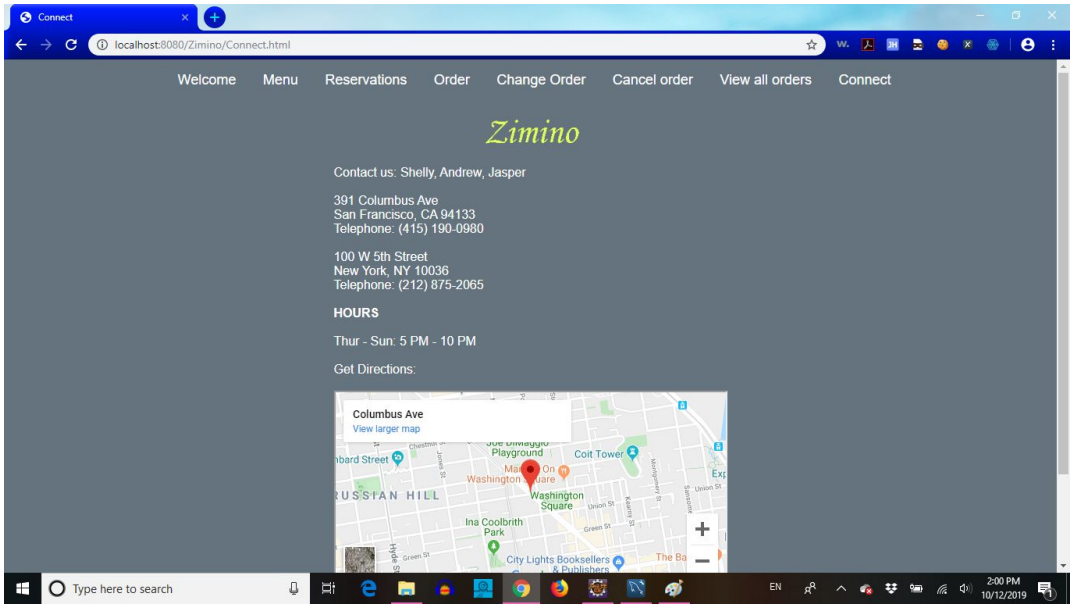
Select cancel Java servlet webpage: In this web page, the customer can select the order the customer wants to cancel and use the submit button to process canceling his or her order.



Order cancelled Java servlet webpage: This webpage displays a message stating that the order(s) has been cancelled.



View all orders Java servlet webpage: This webpage displays all the orders that has been placed. The data is from the customer and ordered table.



Connect webpage: This is the contact us website. We decided to embed a Google map with the html 5 feature iframe in this website.

Part 3: Reference

Reference

Antiche Sere Osteria Enoteca - Bevagna. (n.d.). Retrieved from https://www.facebook.com/Antiche-Sere-Osteria-Enoteca-Bevagna-907749329293919/

Google Maps. (n.d.). Retrieved from https://www.google.com/maps

Restaurants in Italy - TripAdvisor. (n.d.). Retrieved from https://www.tripadvisor.com/Restaurants-g187768-Italy.html

Top 10 Best Italian Restaurant in San Francisco, CA. (n.d.). Retrieved from https://www.yelp.com/search?find_desc=Italian%20Restaurant&find_loc=San%20Francisco%2C%20CA&start=30