

Design for Final CS50 Project

The Eliot Grille

Howard Zhang
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Functionalities:

I implemented the website through the MVC framework (for Django, it is the ironically the MTV framework as Django Views are the Controller and Django Templates are the Views).

This web app starts off with a page that displays the name of the website, the current menu, and pictures of Eliot Grille. On the top, there is a 'navbar' that allows one to navigate around the website. If you are an employee or manager, you would have access to employee functionality, including:

1. Viewing the inventory and the quantity of each ingredient
2. Adding a new ingredient to the Inventory
3. Removing an existing ingredient from the Inventory
4. Changing the quantity of an ingredient from the Inventory
5. Adding food and price to the Menu (which will automatically load across the site)
6. Removing an existing food from the Menu
7. Changing the price of an existing food from the Menu
8. Making a new order with options from the existing menu
9. Removing complete orders (note that they are not deleted, but the `is_currentorder` Boolean is set to False)
10. Viewing all the current orders

I performed several error checks to ensure that the POST information from the forms could accurately be inserted in the SQL database. For (2), I checked whether both fields were filled out, whether the name of the ingredient was a string, and whether the quantity of the ingredient was an integer greater than 0 and less than 100. For (4), I checked whether the decrease made the quantity of the ingredient go below zero, in which case I would return 'Failed Update'. For each of the corresponding Menu cases, I performed similar error checking. For (8), I also created an alert that would flash if the employee would attempt to add an order with zero quantity.

I implemented Javascript/JQuery to add new orders and delete current orders on the employee website with automatic refresh (utilizing existing packages including Dajaxice and Dajax). I felt that there were too many buttons and it could be a cool capability to have the page automatically

reload and the table of current orders automatically load. The functionality was pretty hard to implement and was a struggle for me until the end.

Finally, I implemented some simple CSS styling through Bootstrap 3.0 to make the webpages a bit prettier and easier for the users or employees to navigate.