

INFO 4844: Homework 2

Fall 2020

Fairleigh Dickinson University – Vancouver

Assigned: Wednesday, October 7, 2020
Due: Wednesday: October 21, 2020

This homework is meant to be done **individually**. Please don't use any tools that auto-generate code.

1 Goal

The goal of this assignment is to create a webpage for ordering pizza. A basic template is being provided to you; you need to improve on it in the ways mentioned below.

2 Tasks

1. Notice that the websites `PizzaShop_v2`, and `PizzaShop_v3` currently allow ordering only one kind of pizza. Start with `PizzaShop_v3`, and change the code so that the user can order multiple kinds of pizzas. The user should be able to go through the process of selecting a pizza type, a pizza size, and quantity for that pizza type and size, by clicking an "Add to Cart" button. The added pizzas should be reflected in the table as well as in the raw JSON, which should look something like the following:

```
{
  "customer" : {
    "firstName" : "Sourav",
    "lastName" : "Mukherjee"
  }
  "pizzas" : [
    {
      "pizzaType" : "Chicken",
      "pizzaSize" : "Small",
      "count" : 1
    },
    {
      "pizzaType" : "Pepperoni",
      "pizzaSize" : "Medium",
      "count" : 2
    },
    {
      "pizzaType" : "Cheese",
      "pizzaSize" : "Large",
      "count" : 10
    }
  ]
}
```

}

2. When the user clicks the “Submit order” button, the entire order should be posted to the server.
3. The server must assign an ID to the order and save the order in an SQLite database. It must then return a JSON to the browser showing the order, order ID, and status (e.g., “confirmed”).
4. The browser should then display the contents of the above JSON in the same web page as follows:

```
Customer: Sourav Mukherjee
Order ID: <whatever the ID assigned by the server is>
Status: confirmed
Order details:
1. 1 small chicken pizza.
2. 2 medium pepperoni pizzas.
3. 10 large cheese pizzas.
```

5. The customer might want to check the status again later. Add a GET endpoint, i.e., route /check_order/<id> which will display exactly the above information in a separate page. If the ID is invalid, the page should say “Order not found”.

3 What to turn in

A zipped folder with all the files necessary to run the website using Flask. Note the following requirements:

- The folder structure must be exactly the same as what Flask expects.
- The website must run out of the box by running `flask run` after extracting the zipped folder.
- The Python server must be named `Application.py`