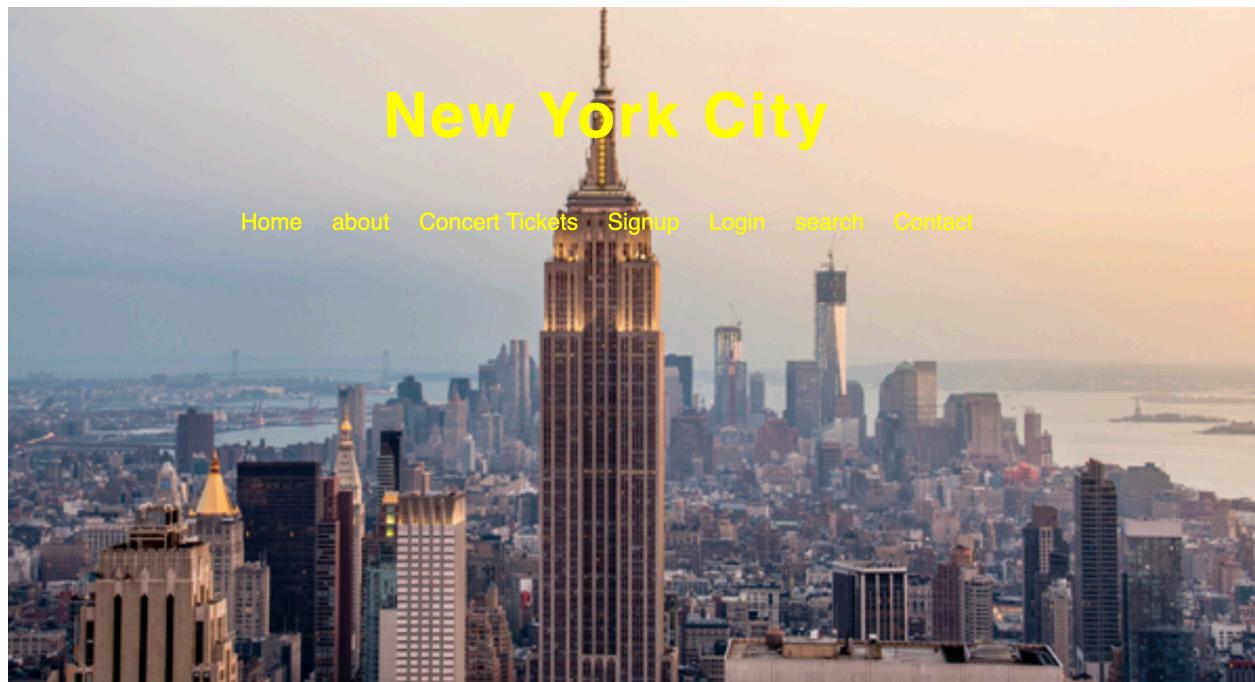


## **Web Development and Programming — Fall 2022**

**Professor Sana Odeh**

# **Final Group Project**

***Building a client-based (front-end technologies such as HTML, CSS, JavaScript and jQuery) and a Server-side (back-end technologies using PHP programming).***



*index.html or the homepage of an example of website (The theme of the website is focused on NYC and the shopping cart is selling concert tickets)*

Your group project is an opportunity to experience Web Project Development while working within a group similar to the way projects are created in the real world. Most importantly, your team should focus on creating a creative and interactive website that has some relevance to your group and or any community that you care about. Make sure that the

project is not too complicated. The project technical difficulty should be simple to moderate since the project has to be completed in order to be graded by the 18<sup>th</sup> of December. Make sure review all the due dates and all of the requirements for this project. Please make sure to reach out to the tutor or me if you need help to avoid serious problems with your project's implementation.

Make sure to let me know immediately if a member of your team is not cooperating as this will affect everyone's grade. Please note that a group might get an "A", but members who didn't contribute will not get an "A" and might even get a failing grade. Make sure that you are all available, engaged and putting your best effort in this project. All members of the team are supposed to contribute equally to this project. If you are having a problem with any of your team members who is NOT doing their responsibilities on time, or not showing up to meetings, please inform me right away in order to resolve the issue before the project quality is affected.

## General Description of the website:

Develop an interactive, creative, responsive and well-designed website. **The website should include server-side programming (at least 4 PHP program.)** The project must be uploaded and working from the i6.cims.nyu.edu server to be graded. The website can be about any theme and can be similar to assignment 5 with added new features for server programming in PHP such as signup, register, store (store products on the server), and search.

## Final Project Requirements and Deadlines (Deliverables)

*Make sure to submit all elements be the deadline!*

| Deliverable  | Due date all by midnight and no extension |
|--|---|
| <b>1) Group proposal</b> is due (one PDF page; a few paragraphs are fine). | <b>12/4 by midnight</b>                   |

|  |  |
|--|--|
| <p><b>2) Client-side (HTML, CSS and JavaScript) should be all working from i6:</b><br/> The website design, all forms and JavaScript should all work properly from the i6 website.<br/> <b>Submit the first weekly report (see below for more information).</b></p>  | <p><b>12/11 by midnight</b></p>                      |
| <p><b>3) In-class group presentation (3 minutes per each group):</b><br/> <b>You should have a PowerPoint presentation and mostly demo your website site design, JavaScript and at least, you should have two PHP programs working fine from i6.</b></p>   | <p><b>12/14 during class</b></p>                     |
| <p><b>4) Final submission of project:</b> Submit the URL for your project website to Brightspace, and ZIP/compress the entire public_html of all files for the project to Brightspace along with the presentation file and the final weekly report (it should include all of the responsibilities for each team member.)</p> | <p><b>12/18 by midnight<br/>(No extensions!)</b></p> |

**Here are details for this Web Project:**

**Theme:**

The theme of the website can be about anything meaningful to your team or any community you care about as this would motivate you to create a great application. So, you can choose the theme from the arts to the sciences or business.

**Content:** I just need one or a few original sentences for each page. This content should be original.

**Images/videos/media:** make sure to only use free images/videos and provide proper citation under image or video, or create your own. Let us know if you create your own to get extra credit.

**Client-Side Features (HTML and CSS and JavaScript or jQuery):**

**Design (CSS Responsive Professional Templates)**

Your website should have a clean and responsive design (well designed) website. You can develop your own responsive external CSS file to design the website or you may choose a responsive professional template from the w3schools templates ([https://www.w3schools.com/w3css/w3css\\_templates.asp](https://www.w3schools.com/w3css/w3css_templates.asp)). You can also use any other responsive and professional templates (Free Bootstrap Templates:

<https://startbootstrap.com/previews/freelancer>). You search for free Bootstrap templates as they are very easy to implement. Make sure to customize the template to make it fit your project.

#### HTML Requirements:

- Create a folder called **FinalProject** which should be placed inside your **public\_html**.
- This folder should include all of the files needed for this project.
- Each member of your team, should upload this folder to their **public\_html** and make sure it's working.

#### Webpages, JavaScript, PHP needed for this project:

- **index.html (homepage):** You should have the index.html as the homepage of the website with nav links, images, and so on. Make sure it's well designed.
- **Contact.html:** this should be a simple form for people to contact you in case they have questions or issues. It should ask for name, email, and message (as a textarea).
- **Shopping cart (products: products.html):**

**Buy your Concert Tickets Now!**

Please choose the number of tickets you want to buy, then the subtotal and the grand total will be displayed.  
Then enter your information and click the checkout to see your receipt.

Byonce's Concert \$200.00    Quantity Ordered : 2    Sub-total 400.00



Drake's Concert \$100.00    Quantity Ordered : 3    Sub-total 300.00



Grand Total 700.00

Enter Your Name, Email, Address, Credit Card Type, Credit Card number, Expiration Date and then click Checkout button below.

- You need to setup the shopping cart (products.html) page similar to what you did for the assignment #5. You need to provide total and subtotal, product quantity, price, image and description for each product.
- You can have a minimum of 2 products.
- **JavaScript external program products.js: this form should be connected to products.js script:**
  - You need to create an external **products.js** script with functions (using jQuery or JavaScript) similar to assignment #5 to compute the

subtotal() and total() and also to validate() the elements in the form:

- This program needs to also to make sure that all fields for name, email, phone, credit card and address are all required. Make sure you validate them with JavaScript or jQuery to make sure all fields are filled, if not, they should be highlighted with focus(), and select() and also alerted to what field they should fill out.
  - Also, validate the zip code (should have 5 numbers), the phone(should have 9 numbers)and the email(should have @ and .)
- 
- **products.php (we will go over the details during next week):** This product form should be connected to products.php script to store all the values from the products form such as name, email, phone, credit card and address into a **clients.txt file**.
    - It should also send a thank you for their purchase.
- 
- **Signup.html (we will go over this during next week):** This is a form have a username and password, a signup submit button and a reset button. All field should be required.
    - **signup.php (we will go over this during next week):** This form should be connected to a signup.php program to store the username and password into a user.txt file.
    - The program should also thank the user for the registration.
- 
- **Login.html (we will go over this during next week):** This is a form to allow people to sign up. It should have a form with a username and password, a signup submit button and a reset button. All field should be required.
  - - **login.php (we will go over this during next week):** This form should be connected to a login.php program to store open the user.txt file and see if there is a match between the stored username and password and what the user entered in the login.html form.
      - If there is a match, then allow the user to see a user.html page.
      - If there is no match, then print a message that the user has the wrong username and password.
- 
- **search.html (we will go over this during next week):** This form allows people to search for a product. It should have one filed to allow people to enter a keyword for the product that they want to search for such as iphone, ipad and so on. It should also have a search submit button and a rest. All fields should be required.

- **Search.php:** this form should be connected to a php script search.php to open a products.txt file (you can create this file with productname, price, a few words description, and quantity. You can provide five products that the user can search.
- **Your search.php** should open to read from this file and compare the search keyword that the user enters with the prductname from the products.txt file. If there is a match, then you should output all the product information (productname, price, a few words description, and quantity) to the user.
- **If there is no match then you can output “We don’t have this product at our shop”.**

### **General Tips:**

- Make sure all .php programs are with following permissions set:  
chmod 755 .php
  - all files to store information should have the following permissions:  
chmod 777 users.txt  
chmod 777 products.txt
  - Keep the .js connected to the form and make sure to have the e.preventDefault() to each section of the script that doesn't validate item so it doesn't execute the php when items are not validated.
  - Make sure to check the examples for the javaScript and PHP as they are all posted on class website.
- 

## **Assessment criteria**

- **Quality of project:**
  - Level of creativity and functionality of the website
  - Quality of the overall design of the website (It should be a responsive, and have professional design look)
  - Quality of Project (Technical features)
  - General styles and coding: Please comment your code
  - Code Efficiency (Use functions and so on)
    - Make sure that your .php produce well designed web pages output similar to your website (in

your program and within the html, make sure to link to .css).

- **Quality of weekly reports:** Make sure to submit weekly reports to Brightspace on time and notify me when you have any issues.
  - **Group dynamics:**
    - Ability to communicate. Members to talk to me asap if you are having group issues.
    - Ability to solve problems creatively (problem-solving skills)
  - **Group presentation:** It should be a dynamic, clear and a professional presentation.
  - **Extra credit for excellent design and added technical features!**
- 

## **Web Project Proposal Details:**

**Due by 12/4th by midnight**

**It can be a pdf file (a few paragraphs) with the following information:**

### **1. Web project Information:**

Team members' information, including names, netid, URL of members i6 website, emails, phone numbers, Names, major, programming and design experience.

### **2. Detailed information about the website Project Implementation**

Make sure to provide the following information during your first report:

1. Name of the project (choose a name for the project).
2. State the purpose of the website clearly in one sentence.
3. Include any design screenshots if you have any.
4. Indicate the schedule of meeting for the team to work on the project along with responsibilities for the first week for each person (the first week is from 12/4 to 12/11).
5. Include any additional comments.

# **Progress Reports**

## **(a pdf file- one page is enough)**

### **Report #1 is due on 12/11 by midnight**

### **Report #2 is due on 12/18 by midnight**

1) Provide an update on the project such as the links to website design, forms, and attach programs finished along with your report.

#### **2. Include detailed responsibilities of each member for that specific week**

Provide a detailed log of responsibilities for each member for that specific week. Each member should take part in the programming and designing the project.

Indicate which tasks were not completed from the previous week (if applicable). Also, indicate the reasons why these tasks were not completed.

#### **5. Team dynamic**

- Challenges/problems
- Solutions

Make sure to let me know immediately if a member of your team is not cooperating as this will affect everyone's grade. Please note that a group might get an "A", but members who didn't contribute will not get an "A" and might even get a failing grade. Make sure that you are all available, engaged and putting your best effort in this project. All members of the team are supposed to contribute equally to this project. If you are having a problem with any of your team members who is NOT doing their responsibilities on time, or not showing up to meetings, please inform me right away in order to resolve the issue before the project quality is affected.

#### **7. Other comments**

***Please note that incomplete reports will lead to problems during the implementation phase and lower grades.***

---

## **Final Project in-class group presentation Details**

### **12/14 During class:**

It should be a dynamic, clear and professional presentation (Power Point presentation should include: Team info, brief website description, technical features used, form used, responsibilities of each member, and a link to website.)

Each group will have 5 minutes to present.

- **1 minute** for introductions and providing a brief concise and clear overview of the project (two sentences to describe the project)
- **3 minutes** to demo the project, show the code, and anything else you think is important. Make sure to spend most of the time demoing the project and show how exciting and creative your project is.
- **1 minutes** for questions/answers from the audience.

Make sure that you practice your presentation well and that your game/project is running on two computers (in case something goes wrong). You can prepare a PowerPoint presentation to make sure that you covered everything.

---