

CS 697AQ – Web Programming Fall 2023

Project 7 (PHP ... and HTML, CSS, JavaScript, SQL) (Due: December 5, 2023)

This project is worth 20% of the course grade. It is the largest assignment in the course, so please start early!

Although PHP is the main focus of this project, in this project we will bring together all other languages we have learned in the course, i.e. HTML, CSS, JavaScript, and SQL, and integrate them with PHP.

Your task is to design and construct a simple, but fully functional website for the wholesale business, for which we already created a database in Project 5, containing the *customers*, *agents*, *products*, and *orders* tables. You are expected to make most decisions yourself, such as: (a) Giving a name of your choice to the company, and (b) Deciding how many pages your website will contain, the content/layout of each page in the website, and how a web user will navigate from one page to the other. (Tip: Keep it simple.)

At the very minimum, your website must contain a page for searching products according to parameters given in a form, and a page for displaying the search results. **This is the only part of your website that will be graded.** The following are example layouts of portions of these two pages:

Bagai Wholesale Dealers

Product Search

Product Name (substring)

Warehouse City (substring)

Minimum Quantity

Maximum Quantity

Minimum Price

Maximum Price

Clear Form

Search Products

Bagai Wholesale Dealers

Searched Product List

ID	Name	City	Quantity	Price
p12	pencil case	Newark	125805	7.20
p22	black pens (4-set)	Newark	100463	9.99
p29	special eraser	New York	220300	3.60
p31	usb speaker	New Delhi	188802	7.50
p64	spellcheck cd-rom	Newark	188802	10.50
p69	hacker's helper	Fairview	205030	8.00
p85	peeping tom dvd	New Delhi	3665250	9.70

Perform Another Search

These two pages may have any visual layout, but they must meet the following functionality requirements:

1. The pages must contain the 3 buttons, and the 6 search parameters shown above. Prior to clicking the **Search Products** button, values entered in each of the 6 form input fields are optional.
2. If the product name substring is specified, the search result should only contain products whose name contains that substring (the substring match should be case-insensitive). Similarly, for the warehouse city substring, if specified. The minimum/maximum quantity & price values have a similar effect of restricting the search result, if any or all of them are specified.
3. The **Perform Another Search** button should take the user back to the **Product Search** page.
4. In any session, on a user's first visit to the search page, all input fields should be initially empty. On any subsequent visit within that session, they should be pre-filled with values submitted on the previous visit in that session. (For this feature, it is recommended that you use session variables, instead of cookies.)
5. The **Clear Form** button should always clear all form fields.

Again, your website **must** contain the above two pages (in this or any other visual layout of your choice), and these are the only pages your project will be graded on.

Depending upon your available time, you are free to include other pages in your website, such as a main page with company info and navigation links to other pages, a page for the company's contact info, pages for adding/deleting/editing customers, agents, products, or orders (some of these may be publicly accessible, while others accessible only by the company's managers). However, you will not be graded on any of the other pages you develop in your website.

Your Website Implementation:

WSU's *MySQL Server* and *Web Server* are both on the same machine: **JB-247-3918L3.dyn.wichita.edu**. For Project 5, you created a database on the *MySQL Server*, but now, you will host your website on the *Web Server*.

Initial Web Server Login & Password Change:

Please carry out the following steps, **very carefully**:

1. If you are off-campus, connect to **vpn-student.wichita.edu**, as in Project 5. Otherwise, skip this step.
2. Open your command-line interpreter (it's called **Command Prompt** on Windows, and **Terminal** on Mac).
3. Enter the command **ssh xxxxxxxx@JB-247-3918L3.dyn.wichita.edu**, in which **xxxxxxx** is your WSU ID, **in lower case**.
4. The above command will connect to the server, and ask for your login password. The password will once again be **xxxxxxx**, i.e., your WSU ID, **in lower case**.
5. After logging in, the server will require you to change your password. Just follow the prompts to change your password, and **remember your new password**. After that, you will be automatically logged out.

Location of your Source Files on the Web Server:

The web server is on a Linux machine, and the source file for the landing page of your website (PHP or HTML) should be placed in your **public_html** directory, a sub-directory already present in your home directory on this machine. This source file of the landing page should be called **index.php** (or **index.html**, if you prefer). It is recommended to also place all other source files making up your website in this **public_html** directory.

If you are Linux savvy, you may login any time to the web server via the **ssh** command given in Step 3 above (with your new password), and edit your source files using any Linux command-line editor, like vi, nano, etc.

If you are not familiar with Linux commands, then you will need to edit your source files on your own computer, and transfer each of them to your **public_html** directory on the web server. As an example, the following command will transfer a file called **index.php** from your computer to your **public_html** directory:

```
scp index.php xxxxxxxx@JB-247-3918L3.dyn.wichita.edu:~/public_html/
```

On your local computer, if you're not already present in the folder containing the **index.php** file, then you will need to give the entire path of that source file. Again, **xxxxxxx** in the above command is your WSU ID. The above **scp** command will ask you for your password on the web server, login to the server, transfer the **index.php** source file to your **public_html** directory, and log out, all in one command. Please note that any existing **index.php** file in your **public_html** directory will get overwritten by the above **scp** command.

URL of your Website:

Once the source file for the landing page of your website is in your **public_html** directory, the URL of your website will be:

<http://JB-247-3918L3.dyn.wichita.edu/~xxxxxxx/>

Again, in the above URL, **xxxxxxx** is your WSU ID.

Your website should now be accessible from any web browser. As your project grows, in a browser tab, open and keep refreshing the URL of your website to see how your website is coming along, as you develop portions of it. That's the fun part!! 😊

Once you are satisfied with the appearance and functionality of all pages in your website, proceed to the submission step below.

Submission Instructions:

You need to submit on Blackboard **all** source files that make up your website (i.e., all your HTML, CSS, JS, and PHP files).

*(If you like, before uploading your PHP files on Blackboard, you may replace only the password used while connecting with your database with *****'s. All other source code should be uploaded as-is.)*

Grading Rubric:

Your submission will be graded according to the following rubric:

1. [4 Points] Correct display/visual appearance of the 2 pages shown in the figure above;
2. [2 Points] Correct action of the Clear Form button;
3. [10 Points] Correct search output according to values entered in the input fields shown in the figure; and
4. [4 Points] Correct pre-filling of search input fields at the start and during a session.