

# CMPS 3680 Lab 4

Spring 2026

## Part 1 - Setup

1. For this assignment you will have multiple files, so I would highly recommend creating a lab4 folder.
2. Inside of the lab4 folder run the following commands from the terminal:

```
wget https://cs.csubak.edu/~paul/cs3680/labs/lab4.zip
unzip lab4.zip
```

This will download and extract the required files you will use for this lab.

3. Also inside of your lab4 folder, run the following commands:

```
mkdir data
chmod 707 data
```

This will create a directory that your php scripts will have permission to write to.

4. Notice that I have provided a file called **productTools.php** with some useful functions in it. YOU DO NOT NEED TO EDIT THIS FILE! But feel free to take a look at it and see what the functions do.
5. Notice I have also included a **validate.php** file. This is where you will write your functions to validate values.

## Part 2 - Page Requirements

### add.php

1. Before you begin coding anything, study this file carefully and make sure you understand it.
2. I have marked the areas where you will complete the assignment with a **TODO**:
3. You will be responsible for adding the following additional fields (all of them are required):
  - **productName**: Can only contain lowercase and uppercase letters
  - **vendor**: Same requirements as productName (hint: use the same validate function)
  - **vendorPhone**: Must use the following format: XXX-XXX-XXXX (numbers only)
  - **quantity**: Can only contain numbers
  - **lastPurchased**: Should be a date, and cannot be blank
4. To meet these requirements you will use a combination of the following:
  - **Front end validation**: use placeholders to help the user, using the 'required' attribute, etc...
  - **Back end validation**: creating validation functions in **validate.php** that you will use in **add.php**
5. Use PHP to make all of the form values 'sticky'.

### remove.php

1. You will create this file, and it will be VERY similar to **add.php**, with the following differences:
  - The title and header will say "Remove Products"
  - The ONLY input field in the form will be the id field.
  - Once you have verified that the id is valid and is NOT unique, you will remove the product using the provided function (look in **productTools.php**)
  - Add a button next to the submit button called "Dump" that will use the provided function to dump/delete all of the products. (hint: the name/value attributes are your friend)

### style.css

1. There are no specific requirements here, but I would expect you to spend a little time making the UI/UX pleasant for the user.