

# CMPS 3680 Lab 3

Spring 2026

## Part 1 - Setup

1. For this assignment you will have multiple files, so I would highly recommend creating a lab3 folder.
2. Inside of the lab3 folder you will create three php files: **home.php**, **header.php**, and **footer.php**.
3. Your home file will have the following structure:

```
<!doctype html>

<html lang="en">
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
    <title>Your Shop Name</title>
    <link rel="stylesheet" type="text/css" href="./style.css">
    <link rel="shortcut icon" href="./favicon.png" />
  </head>
  <body>
    <?php require_once 'header.php'; ?>
    <?php require_once 'products.php'; ?>
    <?php require_once 'footer.php'; ?>
  </body>
</html>
```

4. Your **header.php** file will only contain a set of **<header></header>** tags with the header content in it.
5. Your **footer.php** file will only contain a set of **<footer></footer>** tags with the footer content in it.
6. You can download any small square png file to your lab3 folder and name it favicon.png  
There are a few good sites to find icons. One that I like is <https://icons8.com>.

## Part 2 - Page Requirements

### header.php

1. Inside of your header tags:
  - a. Create an h1 with the title of your shop. Call it whatever you want.
  - b. Create an h2 with your shop's slogan.
2. Use CSS to do the following:
  - a. Change the background color of the header.
  - b. Make it span the entire width of the page.
  - c. Center your h1 and h2 tags and fancy them up a bit!

### footer.php

1. Inside of your footer tags:
  - a. Use the html code **&copy;** to insert the copyright symbol.
  - b. Place the name of your company and the year after the copyright.
2. Use CSS to do the following:
  - a. Make the background color of your footer match the header.
  - b. Make it span the entire width of the page.
  - c. Center the text, and make it bolder.

## products.php

This file will be ENTIRELY PHP code. You will use php to print/echo the html that will be sent to the browser.

1. First, download the json file containing the product data here:

<https://cs.csubak.edu/~paul/cs3680/labs/products.json>

HINT: If you are on Odin, you can use [wget](#) to download files.

2. Use `file_get_contents` to retrieve the data from products.json
3. Use `json_decode` to convert the JSON to an associative array (READ THE DOCS!)
4. Use `uasort` to sort the records by quantity.
5. Use a foreach loop to build an html product "card" for each record.

Since there will be a lot of html mixed with variables, I highly recommend using [heredoc](#) or string interpolation for this.


You can access nested associative array elements like this:

```
$product['details']['name']
```

6. Use CSS to do the following with each product card:
  - a. Show the image on the left and the product info on the right (except the description).
  - b. Show the description below this.
  - c. Use inline-block or flexbox to have the cards appear next to each other, but limit them to 2 per row.
  - d. Apply some style of your choice to make the cards look nice.

## Example


When you are one, your page should look something like this (not all products shown here):



NAME: Replacement Bubbles  
VENDOR: Geekko  
QUANTITY: 2  
PRICE: 6.74

---


DESCRIPTION: Reprehenderit in sint ea mollit nostrud quis exercitation irure.



NAME: Flam Jangler  
VENDOR: Imaginart  
QUANTITY: 3  
PRICE: 27.63

---


DESCRIPTION: Minim reprehenderit minim velit mollit reprehenderit amet aute occaecat.



NAME: Widget  
VENDOR: Crustatia  
QUANTITY: 8  
PRICE: 5.65

---

DESCRIPTION: Ex ad reprehenderit consequat nisi.



NAME: Updog  
VENDOR: Geekmosis  
QUANTITY: 16  
PRICE: 7.98

---

DESCRIPTION: Cillum officia consequat pariatur ut eiusmod pariatur aliquip consectetur aliqua.



NAME: Box of Ohms  
VENDOR: Confrenzy  
QUANTITY: 17  
PRICE: 21.53

---

DESCRIPTION: Adipiscing id anim pariatur ullamco culpa laborum.



NAME: Left Handed Screwdriver  
VENDOR: Eventex  
QUANTITY: 18  
PRICE: 10.26

---

DESCRIPTION: Nisi quis eiusmod veniam ad id anim do cupidatat ex ad incididunt fugiat enim deserunt.