# PHP Class Activity: Product Search and Shopping Site

This document provides instructions for a PHP-based class activity. The activity helps students practice building dynamic web pages with PHP. The goal is to build a basic product search page and challenge students to expand it into a full shopping website.

## Objective

- Understand how to embed PHP in HTML.  
- Learn to handle form data using GET/POST.  
- Practice using arrays, conditionals, and loops in PHP.

## Setup Instructions

1. Download and install XAMPP or WAMP server.  
2. Place your project folder into the server directory:  
 - For XAMPP: C:\xampp\htdocs\  
 - For WAMP: C:\wamp\www\  
3. Start the Apache server.  
4. Open a web browser and navigate to: http://localhost/your\_project\_folder\_name/

## Activity Instructions

1. Open the PHP file in a code editor (e.g., VS Code, Sublime Text).  
2. Observe how product data is stored in an array.  
3. Note the form used for search functionality.  
4. Modify or add more products to the array.  
5. Customize the styling with CSS.  
6. Add new features like product categories or sorting.

## Challenge: Build a Full Shopping Website

To push your skills further, try implementing the following features to create a complete shopping site:

- Create a product detail page.  
- Add a shopping cart using sessions.  
- Allow quantity selection for each product.  
- Create a checkout form.  
- Store orders using text files or a database.  
- Implement user login/logout functionality.  
- Add responsive design with Bootstrap.