

Project One

Simple PHP Application

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1. Concepts

This project is designed to get you started with PHP web applications. You will learn these concepts:

- Creating PHP scripts
- Running PHP scripts
- Scalar Data
- Scalar Variables
- Getting input from the user using a web form.
- Printing output to a web page.

2. Readings

To prepare for this project you should study or review the following:

- **PHP and MySQL by Example** Ellie Quigley with Marko Gargenta, Prentice Hall
 - Chapter 1, Introduction
 - Chapter 2, Getting Started
 - Chapter 4, The Building Blocks: Data Types, Literals, Variables and Constants
 - Chapter 5, Operators
 - Chapter 7, Conditionals and Loops

3. Project Overview

This project will introduce the PHP programming language and its environment.

4. Exercises

Create a directory named "**project1**" under your web server's document root directory on your hard drive. Place all HTML files and PHP scripts for this project in this new directory.

Note: If you are working on an MATC lab computer, always save a copy of this directory and all the files in it to either the class server, a USB thumb drive, a floppy disk or similar media, at the end of each work session. Otherwise your work will be lost!

Exercise 1

Download this file containing an HTML form ([p1form.html](#)) into your project1 directory. Be sure to give it the name **p1form.html** . Open the file in a text editor and note the names of the input fields it contains. Then open the file in a web browser to verify how it works.

Exercise 2

- Write a PHP script named **p1process.php** that processes the data collected by the form in p1form.html and displays it on a web page:
 - Create local variables to store the data from the form's fields.
 - Display the company name, "RPCV of Wisconsin", and the text "Order Results" both as a title and as headers in the body of the web page.
 - Display the date and time the order was processed.
 - Calculate and display the total number of items of all three types ordered.
 - If the total number of items is zero (nothing was ordered), display: "You did not order anything on the previous page!"
 - Otherwise, for each item type, display the number of units ordered. If none of a particular item type were ordered, do not display a line for that item type.
 - Define constants for the price of each item type, then use them to calculate the total dollar amount of the order. Display the total amount of the order.
 - Calculate the total amount of the order including tax, using a 5% sales tax rate, and display the total dollar amount including tax.
 - Finally, display an appropriate message to the customer, based on the answer given to the question, "How did you find RPCV of Wisconsin?", from the form. You must display a different message for each distinct answer to the question!

5. Submitting the project

All of your PHP scripts and HTML files for this project should be in one directory. Using a compression program like WinZip, zip this directory and its contents into a single file named **project1.zip** . If you are using Linux or Macintosh OSX then you should tar and gzip your directory into a file named **project1.tar.gz** . Submit the **project1.tar.gz** or **project1.zip** file to your instructor via Blackboard, using the new [Blackboard Assignment Submission Procedures](#). In **addition** to this your instructor might grade your projects with you in the lab.

