# Overview

Your client is happy with your work and now wants you to build the full eCommerce website. The client has heard that the best way to develop eCommerce websites is to use "PHP" and wants you to use that language.

*If you want to change the business idea, or break up with your assignment 1 partner, or team up with a new assignment partner, you may do so. Please see a tutor if you need help or assistance.*

The good news is that the client is not too fussy about HTML/CSS validation anymore, as long as the pages look consistent in more than one browser and on more than one device.

The client provides you with a **read only** spreadsheet which you must read using the **file()** function or the **fopen()** function in PHP:

**$f-lines=file("https://rmit.me/customers.txt");**

**$f-handle = fopen("https://rmit.me/customers.txt","r");**

OR for advanced users, connection details to a **read only** database table:

<http://titan.csit.rmit.edu.au/~e54061/WP/db-tester.php> (example connection page)

<http://titan.csit.rmit.edu.au/~e54061/WP/db-tester.phps> (source code for example above)

Your website will load "valued customer" data from these resources, authenticate a user and apply discounts once a customer is logged in.

Students may work alone or in a pair in this assignment. We recommend pairing with someone with complementary skills (eg programmer + designer). **You must set up another group** in PortEDU if working in a pair. If you don't, only one student will receive marks from the system.

**Students must host their website on coreteaching servers\* in order to gain marks for this assignment and make the homepage available from this url:**

<http://titan.csit.rmit.edu.au/~s1234567/WP/A2/>  **(index.php)**

*\* external servers is allowed where explicit permission is granted by the head tutor*

# Requirements

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## 1. Website Page Structure

Content common to all pages must be stored in module files and imported into your main files using either the include or require PHP functions. At a minimum, header, navigation and footer are to be included this way.

**All customers** can buy from the website with **general prices**, but **regular** customers, once logged in, can buy with **customised percentage discount prices**. We ask you to set the **general** prices as some students will be selling cakes and others will be selling cars. *For example, a $100,000 cake is going to have to be a really good cake; and a $5 Ferrari? I would be very suspicious ...*

Customers can browse pages in any sequence and the site will remember any purchases they have added to the cart, whether they are logged in or not. This means that you will need to create a SESSION object for all customers, not just for the client's regular customers.

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## 2. All Products page and Single Product page/facility

We (posing as your client) will provide you with a customer list (spreadsheet or database) that has the following customer details and discount rates for regular customers.

* first name
* last name
* login id / email address
* unencrypted passwords [eek!]
* encrypted passwords (see xFactor marks section)
* phone number
* 3 x customised percentage discounts for each product

Discounts need to be applied to the prices **you set** for the first three products. *If you have more than 3 products, you can assume that there is no discount for other products.*

When a customer logs in, the customised prices are applied. When the customer logs out, the general prices are re-applied.

The single product page (or facility) must be dynamic and not hard-coded for each product. The simplest way to do this is to show particular content for each product based on the content of a GET header:

eg product.php?p=p1 will mean that you only show content for product "p1".

## 3. Cart Page

When customers are ready, they may go to the cart page where they are presented with all of their orders, quantity of each item, sub totals of each item, and a final order total. The fields and layout of this page must line up neatly in a table or similar tabular structure. The cart must be cleared if a regular customer logs out.

## 4. Checkout Page

When a customer moves to the checkout page, the following information is requested:

* first name (text box\*)  
  cannot be blank *(simple validation)*
* last name (text box\*)  
  cannot be blank *(simple validation)*
* address (**textarea**) ← ie a multi-line field  
  cannot be blank *(simple validation)*
* email (text box\*)  
  must be a valid email *(complex/regex validation)*
* phone (text box\*)  
  must contain only numbers, single spaces. *(complex/regex validation)****Optional: regex also allows these characters:* '+', '(' and ')'**
* delivery method (radio buttons: regular post, courier, express courier)  
  regular post must be pre-selected
* credit card number field (text box\*)  
  must contain between 13 & 18 numbers, and single spaces *(complex/regex validation)*
* expiry date\* (month & year as drop-down boxes)  
  expiry date cannot be expired *(programming validation)*
* A "please sign me up for the newsletter" (check box)  
  must NOT be pre-checked

Regular customers must have some of these fields pre-loaded (ie names, email, phone etc)

Data validation must be done both client side and server side.

\* *Students using new HTML5 fields must remember to make sure the validation works correctly client side and server side in case a client is using an old browser or has disabled HTML5 features.*

If all the fields are valid, the order is processed and written to a text file called **orders.txt.** All data must be stored and be human readable: laid out to the same standard as a shop receipt. The customer is then taken to an orders confirmation page, where the details of their order is also displayed in a human readable format: laid out to the same standard as a shop receipt.

The cart must be cleared once the order has been written to the text file.

## 6. Client's Orders (X Factor only)

When the client logs in (these login details can be hard coded), a new link is displayed "View Orders". This page must show all of the order details laid out neatly and professionally. The link must disappear when the client logs out.

This page may have a same look and feel as other pages in your website.

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## 7. Sitemap (X Factor only)

This page must read the files in your directory and show only the php and html files as styled hyperlinks by using a regular expression. You may need to use further custom filters if you have module files in your main directory.

This page must have the same look and feel as other pages in your website.

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# Submission Instructions

Assignment tasks must be demonstrated each week to a tutor/marker during tute-lab sessions. Assignment marks and formative advice will be given to you each week during class time to maximise your skill development and help you achieve the best result.

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| --- |
| An official submission must be made before the end of week ~~11~~ 12 via **Blackboard**:  **Friday ~~23rd~~ 30th May 2014, 11:59:59pm**. |

Files must be **zipped into one file**. These files will be used for plagiarism testing and as a reference should problems arise.

**Demonstration of Assignment 2 tasks still close in week 12.**

# Marks Allocation

## 27 marks or 27% of your final grade

### Website page structure (2 marks):

All pages converted to php 1 mark

Proper use of modules/includes throughout site 1 mark

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### Use of SESSION (3 marks):

All customers have SESSION object turned on 1 mark

A registered customer can log in and out ...

… and an unregistered customer can't log in 1 mark

Login function replaced with user details and logout function 1 mark

### Product(s) Pages/Facilities (3 marks):

Customised prices are applied when logged in 1 mark

Page/facility is dynamic (uses a GET header) 1 mark

Form controls update the cart correctly 1 mark

### Cart page (3 marks):

All order details, subtotals and totals are displayed …

… with a link to the checkout page 1 mark

Details displayed logically and neatly, maths is correct 1 mark

Cart is destroyed, general prices re-applied when logged out 1 mark

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### Checkout page and order form (7 marks):

All fields correct type, lined up neatly …

… and form uses the post method 1 mark

*Form fields: client side data validation*

All simple validation completed 1 mark

All complex / regex validation completed 1 mark

Credit card expiry date detected correctly 1 mark

*Form fields: server side data validation*

All simple validation completed 1 mark

All complex / regex validation completed 1 mark

Credit card expiry date detected correctly 1 mark

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### (continued on next page)

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### Orders confirmation page (2 marks):

Order confirmation page displays and is professional 1 mark

Order details stored as a readable receipt in orders.txt …

… and cart is emptied / reset / destroyed 1 mark

### Choose any seven xFactor (7 marks):

*Layout, copy and/or styling design is further improved 1 mark*

*Website is enhanced with creative programming or scripting 1 mark*

*Pages automatically adjust to fit small screens (mobile devices) 1 mark*

*Login/logout is built into every page and works correctly 1 mark*

*User is validated using the md5 encrypted password field 1 mark*

*Product details displayed as a closable floating/expanding div 1 mark*

*Form is pre-populated with regular customer's details 1 mark*

*Text-based fields retain state, refreshed using PHP 1 mark*

*Credit card validation also uses the Luhn algorithm 1 mark*

*Item quantities can be updated in the cart page 1 mark*

***Regular Client Orders Page***

*When your client logs in, a new page shows all of the orders …*

*… and the orders file can be cleared by clicking a button 1 mark*

***Dynamic Site Map***

*Your styled sitemap page displays links to main website pages …*

*… and is built by reading the website directory each time 1 mark*

**Total:** **27 marks (or 27% of your final grade)**

## *Aesthetic xFactor marks explained further: Often, a student will go further than the assignment requirements and achieve excellent work. It is difficult to anticipate everything a student could do, and if we tried to write everything down, this document would be 100 pages long. For this reason, in this assignment and the last assignment, some of the xFactor marks will be awarded for quality work that has stretched beyond the assignment and course materials. Essentially, if you imagine that a client will be happily surprised with your extra work and features, it should qualify for these xFactor marks.*