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| Assessment Title | Website Development Assignment |

## Competency Details

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| Unit code/s and title/s | ICTWEB514 - Create dynamic web pages ICTDBS507 - Integrate databases with websites |
| Qualification code/s and title/s | ICT50220 - Diploma of Information Technology |
| Business unit/Work group | BARTS/IT Studies |

## Instructions

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| Method/s of assessment | Product (Written) |
| Overview of assessment | This assessment will require students to implement a database e-commerce web application using PHP and MySQL. |
| Task/s to be assessed | This is a practical task and will require you to design and code in the Swift language and XCode IDE.  This assessment covers the following topics:  Part I - Client Discussion and Project Specification Part II - Develop the Site Layout and Database  Part III – Database Connectivity and Session Management  Part IV - Shopping and Checkout  Part V - Website Demo and Read Me Documentation |
| Time allowed | Refer to your schedule for submission dates |
| Location of assessment | Assessment can be completed anywhere with access to the resources required. (see Resources Required section below) |
| Decision making rules | To receive a satisfactory outcome for this assessment you must complete all parts correctly. |
| Assessment conditions | This assessment must be undertaken where the conditions replicate noise levels and interruptions that people typically experience working in the ICT industry.  This is unsupervised assessment and you may access any required resources.  This is not group work and must be completed as an individual. |
| Resources required | To complete this assignment, you will need to use the following:  Notepad++ or Visual Studio Code  XAMPP server  Following documents will be provided  [Australian Website Privacy requirements – OAIC](https://www.oaic.gov.au/privacy/your-privacy-rights/what-is-a-privacy-policy)  [ITWorks PHP coding standards](https://learn.tafesa.edu.au/mod/assign/view.php?id=444812)  [ITWorks website security requirements](https://learn.tafesa.edu.au/mod/resource/view.php?id=452779) |
| Result notification and reassessment information | You will be provided feedback and the result for your assignment on TAFESA Learn. You will be and given the chance to resubmit with required corrections only once.  Refer to the TAFE SA assessment policy for more information <https://www.tafesa.edu.au/apply-enrol/before-starting/student-policies/assessment> |

### App Development Assignment

**Background**

A customer has approached ITWorks to create an e-commerce application for them using client server technologies. The web application is to appear similar to many of the e-commerce web sites which you have seen on the web (eg https://www.target.com.au/). The website should allow customers to browse the products and add to a shopping cart. Once the order is confirmed order details should be stored in a database for processing.

You are required to gather the website and the technical requirements from the client. Your lecturer will act as your client.

**Part I - Client Discussion and Project Specification**

**Client Discussion**

Discuss the website requirements and technical requirements including software, database, security and budget with the client. of the website. This can be done in class or via MS Teams with the client (your lecturer).

**Project Specification**

After discussing with the client, write a brief project specification. This document must contain the following items. Use the Project Specification Template provided. Save your document as Project\_Specification\_<your name>

1. **Description of the site:** 
   * Site Name: Old Mate
   * Products to be sold: old stuff
   * Brief description of the site (1-2 lines)

Just a bunch of old stuff, basically an online op shop. Anything before 1990

1. **Organisational Requirements:**
   * State two Organisational standards used
   * State two Legislative requirements used
   * State two Database data requirements including table names and primary keys used
2. **Site Functionalities**: Based on the client requirements list the dynamic functionalities of the web site including
   * Client-side functionalities (list at least 2)
     + Client side validation
     + Product counts displayed
   * Server-side functionalities (list at least 6)
3. **Technical requirements**: Identify the following upgrades and requirements
   * Web server
     + Apache 2.0
   * Database server
     + MySql 8.0.28
   * Scripting language
     + PHP 7.2.1
   * Two security requirements
     + Username and Password
     + https
4. **Database**: Document the proposed changes/integration into existing database (approx 20 words). Identify the entities and attributes based on the project functionalities which you identified above. Describe the database by listing the field names for each table and highlighting the primary key for each table.

Customer(**customer\_ID**, email, password, address, creditCardNum)

Providers(**Provider\_ID,** customer\_ID, firstName, lastName, address)

Products(**product\_ID**, provider\_ID, amountAvailable, price)

Order(**order\_ID, customer\_ID,** status)

OrderItems(**product\_ID, order\_ID,** count)

**Feedback/Approval**

Before you proceed to part II, client will be providing feedback on documentation via LEARN.