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| **WRITTEN ASSESSMENT** | **Uncontrolled when printed**  **16/12/2014**  **FM02\_21a** |

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| **Student Name:** | | | ANGELO PALAZZOLO | | | **Student Number:** | | | 3150704699 | |
| **Unit Code/s & Name/s:** | | | **ICADB412A & ICAWEB503A - Build a Database & Build Web Programs** | | | | | | | |
| **Assessment Type:** | | | **Exam/Test  Assignment  Other** | | | | | | | |
| **Assessment Description:** | | | **P2 –Build a Database & Build a Web Program** | | | | | | | |
| **Assessment Due Date:** | | |  | | **Assessment Received Date:** | | | | |  |
| **Student Declaration:** I declare that this assessment is my own work. Any ideas and comments made by other people have been acknowledged as references. I understand that if this statement is found to be false, it will be regarded as misconduct and will be subject to disciplinary action as outlined in the TAFE Queensland Student Rules. I understand that emailing or submitting this assessment electronically confirms my assent to this declaration in lieu of written signature. | | | | | | | | | | |
| **Student Signature:** | |  | | | | | **Date: / /** | | | |
| **Assessor Feedback:**  **Student provided with feedback** | | | | | | | | | | |
| **Attempt 1 Satisfactory  Not Satisfactory  Date:      /     /** | | | | | | | | | | |
| **Attempt 2 Satisfactory  Not Satisfactory  Date:      /     /** | | | | | | | | | | |
| **Assessor Name:** |  | | | **Assessor Signature:** | | | |  | | |
| **Note to assessor: Please record any adjustment below that has occurred to this assessment e.g. written assessment given orally.** | | | | | | | | | | |
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| **Disclaimer:** TAFE Queensland North (TQN) is collecting the information on this form for assessment purposes. Only authorised Departmental officers have access to this information. Your personal information will not be disclosed to any other third party without your consent, unless authorised or required by law, in accordance with the Information Privacy Act 2009. | | | | | | | | | | |

**This section must be completed by the student when the student either posts or hands a completed assessment/assignment to customer service centres. a receipt is only issued for face to face assessments when requested by the student.**

✀ **RECEIPT**

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| STUDENT TO COMPLETE |  | OFFICE USE ONLY |
| Unit of competency code/s:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |
| Assessment item/No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  | Date received: / / |
| Student’s name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |

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| **Instructions to Student:** | **Time allowed:** This assessment is to be completed over the semester.  **Materials and equipment to be supplied by the Student:**   * Access to a PC, MySQL server, EXAMPP or WAMP Server with PHPAdmin, * **General Instructions:** * You will need access to the folder ‘Cluster 2 Assessment’, which is in your Student Shared Drive and available through your Google Drive. * You have 4 tasks to complete. * You will need to answer **all** questions correctly * Keep a copy of all assessments as you will be required, to submit them on GITHUB to your teacher.   NOTE: If you are not successful on your first attempt, you will be given comments and a further two weeks to rectify the changes.  You will need to re-submit your corrections for remarking. If you are unsuccessful on your second attempt, you will be required to re-enrol in this unit. ALL SUBMITTED WORK MUST BE YOUR OWNPlagiarism Is An Offence To avoid plagiarism, you must give credit whenever you use:   * Another person’s idea, opinion, or theory * Any facts, statistics, graphs, drawings—any pieces of information— information that is not common knowledge * Quotations of another person’s actual spoken or written * Paraphrasing of another person’s spoken or written words |
| **Instructions to Assessor:** | Please see Instructions to Student above. |
| **Assessment Context and Description: (if required)** | In order to gain competency in P2 **ICADB412A & ICAWEB503A Build a Database & Build a Web Program,** successful completion is required of the following assessments items:   * Written Assessment |
| **Note to Student:** | An Assessment Matrix is available from your teacher upon request. The matrix shows how the knowledge and skills that you are being asked to demonstrate align to the Elements, Performance Criteria, Critical Aspects, Required Skills and Required Knowledge components of each Unit of Competency. |

This assessment is the second stage of your Database Cluster Assessment. In this assessment you are required to build a website as a GUI for the database you developed and designed in Practical Assessment 1 for Cluster 2.

You should create a new folder for this project called **databases\_webapp\_yourname**' and save all project files in this folder. You should create sub folders as necessary.

Task 1

For this task you are required to research HTTP and answer a few questions about it:

* Questions:
  + Describe HTTP
  + Describe limitations of HTTP when developing web applications.
  + Identify the advantages of HTTP when developing web applications.

Task 2 – Create your website/web application.

For this task you are required to use the clickable wireframe (developed in practical assessment 1 for this cluster) to develop your responsive web application utilising HTML, CSS, Javascript and PHP. It is recommended that you utilise Bootstrap or another responsive framework to develop your web application.

Ensure that your website includes:

* Appropriate reports to display required information in your database to various users.
* Ensure your web application manages sessions and enables a user to log in/log out and view information in your database.
* Sufficient data in the database so that appropriate reports can be generated. This is to include as a minimum:
  + 10 unique vehicles (2 on special),
  + 5 unique customers,
  + 3 salespersons,
  + 5 sale transactions,
  + 8 manufacturers and
  + 5 categories of vehicles.

Task 3 – Write a brief on you database/web application

For this task you are required to write a brief documenting your web application and its implementation:

* In this brief you need to:
* Outline the output reports generated by your website, including screen shots of the reports and the SQL code used to fetch the data.
* Outline the security and access control for your website, including a documented test of the security system to ensure functionality.
* Outline and recommend a plan for implementing this web application.
* Outline how to import old data into new database using phpmyadmin.
* Identify and document user training requirements.
* Outline the web application’s use of statefull/statelessness

Task 4 – Present your brief to the client (Teacher)

For this task you are required to sit down and present your website to your teacher:

* You will need to be prepared to sit down with your teacher and explain your website and gain client approval. You will need to discuss:
  + Web application functionality
  + Security, and
  + Recommended implementation plan.

Project Resources

Below are a number of resources needed to complete this project.

* [Requirements report](http://my.tafe.qld.gov.au/WBI/WBI_Information_Systems/WBI_ICADBS502A_TQC_A/IMS_2013v1/01_Design_db/project/resources/WCA_Requirements_Report.pdf) - this document describes the requirements of the project (PDF file 591Kb)
* Client logo - available in three formats: [west\_coast\_auto\_logo](http://my.tafe.qld.gov.au/WBI/WBI_Information_Systems/WBI_ICADBS502A_TQC_A/IMS_2013v1/01_Design_db/project/resources/west_coast_auto_logo.png).png (PNG file 36Kb), [west\_coast\_auto\_logo.jpg](http://my.tafe.qld.gov.au/WBI/WBI_Information_Systems/WBI_ICADBS502A_TQC_A/IMS_2013v1/01_Design_db/project/resources/west_coast_auto_logo.jpg) (JPG file 21Kb) and [west\_coast\_auto\_logo.psd](http://my.tafe.qld.gov.au/WBI/WBI_Information_Systems/WBI_ICADBS502A_TQC_A/IMS_2013v1/01_Design_db/project/resources/west_coast_auto_logo.psd) (PSD file 226Kb)
* [Sitemap](http://my.tafe.qld.gov.au/WBI/WBI_Information_Systems/WBI_ICADBS502A_TQC_A/IMS_2013v1/01_Design_db/project/resources/West_Coast_Auto_Sitemap.pdf) - full page view of the sitemap from the requirements document (PDF file 100Kb)
* [Wireframe](http://my.tafe.qld.gov.au/WBI/WBI_Information_Systems/WBI_ICADBS502A_TQC_A/IMS_2013v1/01_Design_db/project/resources/west_coast_auto_wireframe.pdf) - full page view of the sitemap from the requirements document (PDF file 337Kb)

You will need to submit

The following should be included in your GitHub repository:

* Task 1 answers
* Website (Task 2)
* Database file (Task2)
* Written brief (Task 3)