

Assessment Information for the Candidate:

ICTPRG438 - Configure and maintain databases

Candidate name:			
Employer:			
Contact phone:			
Date / time of assessment:		Location:	
Assessment Name:			
Assessment details			
Unit/s of Competency:	ICTPRG438 - Configure and maintain databases		
Assessor/s name:			
Approx. time required:			
Equipment / materials required:	Access to The internet PC with Visual Studio Code IDE or Visual Studio Community Programming standards Any required hardware Software development tools		
Assessment methods and tasks			
For this assessment you will be required to...	<ul style="list-style-type: none">• Prepare to create web application• Implement session management• Develop and finalise applications in a stateless environment.		
Allowable adjustments:	If the date and time of the assessment is not suitable for you, contact your assessor to make alternate arrangements. If you feel you will have difficulty completing these tasks due to disability or other condition, your assessor should already be aware of this because it was disclosed during your enrolment, however if you have concerns, please contact your assessor or student support.		
Appeal process:	Please consult the Appeals Policy located in your Student Information Pack for more detail. If you require a copy of this policy, contact your assessor or student support.		

Simulated Workplace Information

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Information about the simulated workplace business will appear in a box like this to guide learners as to what and where to access information.

Simulated Workplace assessment, follow the instructions provided for you in boxes such as this with the icon on the left.

Instructions – Create and Maintain Database

Note

While this assessment is set up to be a stand-alone assessment it can also be part of a larger project. If your course has the following unit, then you should review the assessment instructions for that unit before you commence this assessment.

The creation of the database from this assessment can be incorporated into ICTWEB517

Scenario

CLIENT REQUIREMENTS

Below are the client's requirements for the web application that the client has engaged AIT-CS to develop. Your task is to review the client's requirements and develop a database, install the database, manage data, data access, data security and improve database performance.

The client would like to develop a web application or 'webapp' for the client's local Veterinarian practice.

The website is a basic shop front type of website to promote the Vet's business. You are provided with information about the Vet and some other resources to complete this task. The Vet is a dog specialist but does treat other suburban pets. The Vet does not have any rural clients although is happy to see farm class animals as required.

The client would like to have no more than 4 pages.

1. A title page with the Business information with links to the other 3 pages.
2. The Second page is about its people and their Biographies.
3. The third page is about the services provided.
4. The last page has the location information and a map.

The client would like one animal graphic on each page. Which will change depending on if the user identifies as a 'Cat person', a 'Dog person' or 'both'.

The client, who is a dog specialist, would also like each dog owner to be able to add an account to become a member of the website.

The account creation process will require the following information to be entered by the account creator:

- First name



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- Surname
- Contact phone number
- Email address
- Suburb
- Postcode
- Pet name
- Pet breed
- Pet age
- Pet gender
- Photo (image) of pet

The webapp will be using the website membership database for members to send a Puppy Play Date request to other members.

The app will allow the members to search for other Dogs of the same breed or age or gender and send a request with a suggested day and time of the play date.

The members should not be able to see any personal data of the dog owners and the server will send an email request on behalf of the member requesting the date. They should know that their name and phone number will be given to the requested member if they accept the play date.

The receiving member should be emailed a link to the app, where they can login to accept or decline the play date. If they accept the play date, they will be made aware they will receive the other dog owners name and number to arrange the location etc. and their name and number will be provided to the requestor in the app.

The app needs to keep track of requests and acceptances and show the name and number of each party if the date is accepted. The members should be able to remove old requests and the system should remove declined requests after 7 days.

Note: You will be permitted to use the database for ICTWEB517

PART 1 – DATABASE DESIGN

You have been task to create the Database Design Document.

Note: *There are some preliminary requirements before starting your assessment. You will be required to install MySQL and MySQL Workbench. "MySQL Workbench is a unified visual tool for database architects, developers, and DBAs. MySQL Workbench provides data modeling, SQL development, and comprehensive administration tools for server configuration, user administration, backup, and much more. MySQL Workbench is available on Windows, Linux and Mac OS X." - <https://www.mysql.com/products/workbench/>*

As per organisational guidelines, design documents will be required to be created before the project commences. Use MySQL Workbench to help create the Entity Relationship Diagram to include in your database design document.

Click on the link [AIT-CS 2-DB Design Template.doc](#) and review the data base design template. This template will be required to be completed before the development, creation and installation of the database.



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Data Sources

- List of Dogos.xlsx spreadsheet (create link)

REQUIRED EQUIPMENT AND RESOURCES

You will need the following resources, tools and equipment to complete this assessment task:

- Access to the internet
- MySQL - <https://dev.mysql.com/downloads/mysql/>
- MySQL Workbench - <https://dev.mysql.com/downloads/workbench/>
- Access to a word processing software
- Access to a spreadsheet software
- [AIT-CS 2-DB Design Template.doc](#)
- [List of Dogos.xlsx spreadsheet](#)

ASSESSMENT INSTRUCTIONS

You are required to install the following software to complete the assessment:

- MySQL - <https://dev.mysql.com/downloads/mysql/>
- MySQL Workbench - <https://dev.mysql.com/downloads/workbench/>

SUBMISSION REQUIREMENTS

To complete this task you are required to upload the Part 1 completed document design:

- Complete the assigned tasks
- It is your responsibility to check your submission for spelling, grammar, readability, etc.
- Ensure your submission addresses the assessment instructions and any other requirements.
- Identify code standards and guidelines to be used in the project
- Each student is required to submit their own work.
- Ensure you have provided references for material that has been sourced from elsewhere.

SUBMISSION INSTRUCTIONS

To complete this task you are required to upload the task document here and follow these guidelines:

- Completed database design documentation.
- Your file MUST be in either a DOC, DOCX or PDF format.
- Check your submission addresses the assessment instructions and any other requirements.

PART 2 - DEVELOPMENT AND CREATION OF DATABASE

You are required to complete [Part 1 – Database Design](#) as Part 2 - Development and Creation of Database is a continuation of Part 1 – Database Design.

Development and Creation of Database



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Use the database design document you have developed and create the MySQL database that contains member's information and their pet's information.

Use MySQL Workbench to complete the following tasks:

- Develop and build the database
- Administer
 - Create user accounts
 - Administer user access
 - Confirm required user access
 - Perform backup
 - Perform restore
 - Inspect and audit data and database integrity
 - View database health
- Visual Performance Dashboard
 - Improve database performance and tuning
- Database Migration
 - List of Dogos.xlsx spreadsheet

You will be required to create a build document with screenshots and explanation of each of the above tasks in reasonable detail.

REQUIRED EQUIPMENT AND RESOURCES

You will need the following resources, tools and equipment to complete this assessment task:

- Access to the internet
- MySQL - <https://dev.mysql.com/downloads/mysql/>
- MySQL Workbench - <https://dev.mysql.com/downloads/workbench/>
- Access to a word processing software
- [AIT-CS 2-DB Design.doc](#)

ASSESSMENT INSTRUCTIONS

- You are required to complete [Part 1 – Database Design](#) as Part 2 - Development and Creation of Database is a continuation of Part 1 – Database Design.
- Create and manage database
- Create a build document

SUBMISSION REQUIREMENTS

To complete this task you are required to upload the Part 2 completed database and build document:

- Complete the assigned tasks
- It is your responsibility to check your submission for spelling, grammar, readability, etc.
- Ensure your submission addresses the assessment instructions and any other requirements.
- Each student is required to submit their own work.
- Ensure you have provided references for material that has been sourced from elsewhere.

SUBMISSION INSTRUCTIONS



Assessment Information for the Candidate:

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To complete this task you are required to upload the task database and build document here and follow these guidelines:

- Completed database.
- Build document.
- Your file **MUST** be in either a DOC, DOCX or PDF format.
- Check your submission addresses the assessment instructions and any other requirements.