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| Qualification national code and title | ICT50220 Diploma of Information Technology (Front-End Web Development) |
| Unit/s national code/s and title/s | ICTWEB517 Create web-based programs ICTPRG546 Validate application designs against specifications |

Assessment 1: Discussion questions

Assessment type (☑):

- ☒ Questioning (Oral/Written)
- ☐ Practical Demonstration
- ☐ 3rd Party Report
- ☒ Other – Project/Portfolio *(please specify)*

Assessment Resources:

Access to Blackboard Cluster – Web application Development
IDE such as VS Code, Notepad++

Assessment Instructions:

Assessment Time

See Learning Plan for details. This is Assessment 1

Assessment Due Date

Session 5 – 1st March 2024.

Unit Elements

ICTWEB517 Create web-based programs.
Element 1. Prepare to create web application

ICTPRG546 Validate application designs against specifications
Element 1. Evaluate software requirement specifications

Assessment Instructions

You are to complete a series of questions on HTTP and Database Structure covering the advantages and disadvantages as well as a definition of what HTTP is. This means that you will need to research to provide your answers well referenced and in your own words;
All skills must be demonstrated to achieve a satisfactory result;
Please submit using through blackboard submission box;
Ensure you have used the required template for your assessment;



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Assessment Instrument:

Answer these questions in a **Word Document** regarding HTTP and Database Structure

1. We know that HTTP drives the web however we often do not know what the protocol does. Describe HTTP in your own words.
 - Please include any updates,
 - Technical specifications such as protocols
 - Any images that will explain more.
2. What are the limitations of HTTP when it comes to developing web applications?
 - Are there any?
 - What is a web application?
 - Are there any new advances for web Applications?
3. Please identify the advantages in using HTTP when developing web applications.
 - How is HTTP used in web applications?
 - What is the Advantage?
 - What is the Future of Web Applications?
4. Describe a database structure and how HTTP works with a database.
 - outline internet technology as it relates to the use of databases
 - identify and apply programming control structures, including object-oriented programming and structured query language (SQL)
 - explain web programming concepts, including:
 - authentication and web security
 - hypertext transfer protocol (HTTP)
 - session management
 - defining the principles of stateless programming.
5. Describe the processes and techniques related to object-oriented programming.
 - What is Object Oriented programming and what language are you using?
 - describe the process for developing small-size applications
 - identify and outline the key features of a graphical user interface (GUI), for interaction with an operator.
6. Include APA references for all your answers, even if you know the answer. Your answers will need to be backed up by reference information of another source.

Why reference?



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- **Assists you to avoid plagiarism**
Referencing ensures that you have acknowledged your sources and that you have done your best to avoid plagiarism.
- **Demonstrates the depth and the breadth of your research and reading**
- **Enables other researchers to locate your sources** Researchers rely on referencing to locate sources.
- **Supports and strengthens your argument**
The reader can determine whether the sources you have used support your argument.

References

TAFE, N. M. (2019, November 14). *Library Services*. Retrieved from North Metropolitan TAFE - Library Services - Why Reference?: <http://guides.dtwd.wa.gov.au/nmtafe-apa/introduction>

University, M. (2020). *Library*. Retrieved from Murdoch University Website - Why Reference?: <https://www.murdoch.edu.au/library/help-support/support-for-students/referencing>



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|--|------------------------------------|---------------|--|
| Assessment # and title | Assessment 1: Discussion Questions | | |
| Lecturer name | Anthony Evans | | |
| Student name | | | |
| Student ID number | | | |
| Telephone contact number | | Email: | |
| <p>By completing and submitting this signed form to my lecturer, I am stating that:</p> <ul style="list-style-type: none"> a. The attached submission is completely my own work b. I have correctly cited all sources of information used in this work (if required) c. I have kept a copy of this assessment (where practicable) d. I understand a copy of my assessment will be kept by the NMTAFE for their records e. I understand my assessment may be selected for use in the NMTAFE's validation and audit process to ensure student assessment meets requirements | | | |
| Student Signature | | Date | |

Assessor please note: Where verbal clarification has been sought from a student to gather additional assessment evidence from an assessment item, question/s and response/s must be recorded, signed, and dated by the assessor, against the relevant assessment item/s.

Submission 1 ☐ **Assessment Result Satisfactory / Not Yet Satisfactory** (please circle) **Date:** _____

To satisfy requirements for this assessment, you need to complete the following:

| Question No. | Answer the following Questions | S or NYS |
|--------------|---|--------------------------|
| 1 | Answer Question 1 with enough information to demonstrate understanding by addressing each dot point and use correct referencing | <input type="checkbox"/> |
| 2 | Answer Question 2 with enough information to demonstrate understanding by addressing each dot point and use correct referencing | <input type="checkbox"/> |
| 3 | Answer Question 3 with enough information to demonstrate understanding by addressing each dot point and use correct referencing | <input type="checkbox"/> |
| 4 | Answer Question 4 with enough information to demonstrate understanding by addressing each dot point and use correct referencing | <input type="checkbox"/> |
| 5 | Answer Question 5 with enough information to demonstrate understanding by addressing each dot point and use correct referencing | <input type="checkbox"/> |
| 6 | Own wording is used, and APA Referencing included to support answers | <input type="checkbox"/> |

Submission 2 ☐ **Assessment Result Satisfactory / Not Yet Satisfactory** (please circle) **Date:** _____



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To satisfy requirements for this assessment, you need to complete the following:

Student Feedback

Lecturer Signature: Anthony Evans _____ **Student Signature:** _____