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| Level 5- Diploma in Information System | | |
| Title | Assessment 1(Term1- Programming Principle 1) | |
| Document Version | 1.0 | |
| Last updated | 19 December 2022 | |
| Graduate Profile Outcome | **GPO 5** - Produce technical documentation for a variety of applications and audiences using different media to enhance system development, usage, and maintenance.  **GPO 6** - Support the building and deployment of software systems to meet organizational requirements.  **GPO 9** - Apply the principles of software development to create simple working applications. | |
| Learning Outcome | 5.1 | Specifications, help documents and user instructions (3 Credits) |
|  | 6.4 | Testing – test plans, techniques, and concepts (black box, white box, boundary value) (3 Credits) |
|  | 9.1 | Programming concepts and tools (7 Credits)   * Number and Coding systems: * Creating a simple single module application. * Fundamental programming constructs and principles; syntax, logic, coding standards, debugging, and testing. * Tools - text editors and/or integrated development environments (IDEs), logic diagrams and/or pseudo code; accessing and reading technical documentation; |
|  | 9.2 | Awareness of procedural and object-oriented programming (1 Credit) |
|  | 9.3 | Principles of Implementation (user testing, deployment) (1 Credit) |
| Credits | 15 Credits | |
| Duration | 2 Days (3 Hours each) | |
| Assessor Name | Rashmi Munjal | |

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| Assessment Section | Marks  Possible |
| Part A: Task1(9.1, 9.2) | 20 |
| Part A: Task 2(9.1, 9.2) | 44 |
| Part B: Task 3(5.1,6.4, 9.1, 9.3) | 81 |
| **Total** | **145** |
| Grade A+=95-100%, A=90-94%, A-=85-89%, B+=80-84%, B=70-79%, B-=60-69%, C+=55-59%, C=50-54%, D=Below 50% |  |
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| **Learner Declaration Statement**  *Only sign if you agree to the Learner Declaration Before assessment and After assessment sections below* | | | |
| Learner Name | Connor | Learner Signature |  |

Learner Instructions and Declaration

**Declaration Statement**

I have read, understood, and agreed on the following (refer to student handbook):

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| Before the assessment |  |
| Techtorium Assessment Conditions and Guidelines | The responsibilities of the learner |
| The assessment environment is safe and accessible | The responsibilities of the assessor |
| The Learning Outcomes that will be assessed | Options for re-assessment |
| This assessment is my own original work, unless otherwise specified | Your completed assessment paper is the property of Techtorium and should not be removed from the premises at any time. |
| I have acknowledged all sources of information used in the writing of this assignment by using the recognized in-text APA referencing standard using the latest version. All unpublished sources of information have been acknowledged. | I have not copied either partially or in full any work from any other learner or former learner of Techtorium or any other tertiary institution. I promise not to share this project in part or whole with any other learner at Techtorium or outside this campus |
| I make this declaration in full knowledge and understanding that, should it be found false, Techtorium may take disciplinary action. | I understand that Techtorium may make use of systems such as Turnitin.com to verify the originality of my work. |
| [Academic Fraud](https://www.nzqa.govt.nz/assets/Providers-and-partners/NZQA-Effective-practice-guide.pdf) is a serious issue and will compromise your ability to study at Techtorium. If there is any doubt in your mind, then you should:   * State that you have copied and pasted work from another source * Use APA referencing * Include a weblink to the original source * Ask your Assessor for clarity | |
| After the assessment |  |
| 1. During the assessment it was clear what I was expected to do | 1. The feedback I received enabled me to find ways of reaching the standard (if it was not reached during the assessment) |
| 1. I was treated fairly | 1. The feedback I received met my needs and expectations |
| Learner feedback – *Before and After Assessment*:  *Please provide feedback so we can improve our Assessment Process:* | |

**Learner Instructions**

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| **Overview**   1. If you have any questions, you can ask your assessor before you start the assessment. 2. If you have any unforeseen circumstances which may affect your performance during the assessment. Please speak to your assessor before you start the assessment. 3. If you wish to query the Assessor marking, then follow the appeal process stated in the Student Handbook 4. This assessment is to be submitted as a soft copy which will be saved to a location specified by the Assessor at the time of the assessment. 5. If you are referring to external work, you must use the appropriate referencing style APA version 7 [reference link](https://guides.unitec.ac.nz/apareferencing/webpages) or equivalent hyperlinks 6. If you are attaching any document, you must mention in the Proof of work that “document attached” with the specified name of the document. 7. The assessment will be completed in class during the scheduled time. 8. The product that you submit by the end of the allocated time for this assessment will be considered your last product for assessment. 9. You must complete this assessment on your own (individual work). 10. You are only allowed to use resources as prescribed by each task. 11. **This assessment will be conducted in 2 days (3 hours each). Part A will be released on day 1 and Part B will be released on day 2. Please note: Part B (Day 2) will not be available on day 1.**   **Technical Details**   1. Assessments will be given through Canvas and must be uploaded through Canvas. 2. Where applicable you must include clear screenshot evidence. Images must not be unreadable when zoomed in or out. 3. You must not modify any part of this document except the relevant sections in which you are expected to write or embed other documents.   **Success Criteria**   1. All work for this assessment must be original including any written work. See referencing section above if you have any doubts. 2. To pass this assessment you must reach a minimum of a C grade (50%) for each task. 3. Your submission will be assessed through Turnitin.com to check the authenticity, **IF** any fraud/duplicate is detected, necessary actions will be taken.   **Learner Resources**  You will have access to the following resources for this assessment:   1. Assessment Coversheet (This document) 2. Declaration from Learner (This document) 3. Learner Instructions (This document) 4. Your own Device |

# Part B

# Scenario

You have been provided a simple working desktop application to be used as a visitor registration system at the reception desks of companies. The working application includes the following functionalities.

* Registration of visitors by entering their details such as Name, Surname, Mobile, Email, Meeting date, Meeting Time, Meeting With, and Meeting aim on the main form
* On the selection of “Meeting Aim” button, the custom dialog box will be opened which will give options to select the aim of meeting. The selected option from the dialog box will replace the text “Meeting Aim”. When the user click cancel button, no option will be replaced on the main form.
* All fields are required.
* Appropriate validations for the mobile number and email have been implemented.
* The receptionist will later be able to delete meetings once the visitor leaves. This is done by selecting an item in the list and pressing the DEL key on the keyboard.
* Below shows an example of the application with some previously registered meetings (Figure 1).

Graphical user interface

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Figure 1. Visitor Registration Form Sample Data Entry

Graphical user interface, application

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Figure 2. Meeting Aim Form with sample options

Please find attached the GitHub link to clone the repository on your desktop.

<https://github.com/techtoriumtrainer/Assessment-Part-1-PP1-.git>

# Task 3

**Outcome Mapping:**

**5.1 - ​​​​​​​Specifications, help documents and user instructions**

**6.4 - ​​​​​​​Testing – test plans, techniques, and concepts (black box, white box, boundary value)**

**9.1 - Programming concepts and tools**

**9.3 - Principles of Implementation (user testing, deployment)**

## Requirements

## Solution Requirements

**The following Solution Requirements will be calculated toward your final grade for this term. You MUST attempt all the SRs.**

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| SR | Solution Requirement | Description |
| SR3.1 | Clone the repository from the given GitHub account and provide evidence of the working application from your desktop | Screenshot of cloned repository by using the given link  Screenshot of Form1 as shown in Figure 1 Screenshot of Form2 as shown in Figure 2 |
| Proof of work | | |
| SR3.2 | Produce a specification document for the application known as Software Requirement Specification  it must include.   * Title Page * Table of Content * Introduction * Design Considerations * Functional Requirements | Please attached the Software Requirement Specification document for the given application  (Name your file as in the given format Assessment1\_SR3.2.docx) |
| Proof of work | | |
| SR3.3 | Prepare a help document for the user by addressing the FAQs.  Create a document with minimum 3 relevant FAQs and attach it along with your submission. | Please attached the user help document for the given application.  (Name your file as in the given format Assessment1\_SR3.3.docx) |
| Proof of work | | |
| SR3.4 | Produce the user instruction document for the given application. | Please attached the user instruction document for the given application.  (Name your file as in the given format Assessment1\_SR3.4.docx) |
| Proof of work | | |
| SR3.5 | Create a Test Plan for the Application that you have developed it must address the following.   1. Cover Page 2. Introduction 3. Approach 4. Schedule 5. Testing Methodologies 6. Features to be tested | Please attached the Test Plan document for the given application.  (Name your file as in the given format Assessment1\_SR3.5.docx) |
| Proof of work | | |
| SR3.6 | Apply the Black Box testing technique on the “Meeting Aim” button of this application to make sure it’s working according to the given requirement | Please provide evidence of the BlackBox testing technique applied.  (Name your file as in the given format Assessment1\_SR3.6.docx) |
| Proof of work | | |
| SR3.7 | Apply the principles of Implementation to build and deploy the developed application on Windows/Mac machines. | Illustrate at least two main principles of implementation.  Screenshot of the local folder where the .exe file is available |
| Proof of work | | |