INFO1111: Computing 1A Professionalism

2023 Semester 1

Self-Learning Report

Submission number: ??

Github link: ??

Student name	Cao An
Student ID	??
Topic	?? *Note: This must be the same as was in your topic approval*
Levels already achieved	??
Levels in this report	??

Contents

Instructions

Important: This section should be removed prior to submission.

You should use this LaTeX template to generate your self-learning report. Keep in mind the following key points:

- **Submissions**: There will be three opportunities during the semester to submit this report. For each submission you can attempt 1 or 2 levels. Each submission should use the same report, but amended to include new information.
- **Assessment**: In order to achieve level B, you must first have achieved level A, and so on for each level up to level D. This means that we will not assess a higher level until a lower level has been achieved (though we will review one level higher and give you feedback to help you in refining your work).
- **Minimum requirement**: Remember that in order to pass the unit, you must achieve at least level A in the self-learning (unless you achieve level B in both the skills and knowledge categories).
- **Using this template**: When completing each section you should remove the explanation text and replace it with your material.
- **Referencing**: You should also ensure that any resources you use are suitably referenced, and references are included into the reference list at the end of this document. You should use the IEEE reference style [1] (the reference included here shows you how this can be easily achieved).

1. Level A: Initial Understanding

1.1. Level A Demonstration

List the three things you will do to demonstrate your understanding of this topic. *Note: This must be the same as was in your topic approval*

1.2. Learning Approach

How did you approach your learning? Write 100 - 200 words outlining the steps you took and/or are taking to self-learn the topic you have selected.

1.3. Challenges and Difficulties

What did you find most difficult? Write 100 - 200 words discussing what you have or are finding most challenging about self-learning the topic you have selected (e.g. are there any elements of the topic you have found more difficult to learn than others etc.).

1.4. Learning Sources

Learning Source - What source did you use? (Note: Include source details such as links to websites, videos etc.). Contribution to Learning - How did the source contribute to your learning (i.e. what did you use the source for)?

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1.5. Application artifacts

Include here a description of what you actually created (what does it do? How does it work? How did you create it?). Include any code or other related artefacts that you created (these should also be included in your github repository).

If you do include screengrabs to show what you have done then these should be annotated to explain what it is showing and what the application does.

2. Level B: Basic Application

Whilst level A is about doing something simple with the topic to just show that you have started to be able to use the tool or technology, level B is about doing something practical that might actually be useful.

2.1. Level B Demonstration

This is a short description of the application that you have developed in order to demonstration your understanding. (50-100 words).

2.2. Application artifacts

Include here a description of what you actually created (what does it do? How does it work? How did you create it?). Include any code or other related artefacts that you created (these should also be included in your github repository).

If you do include screengrabs to show what you have done then these should be annotated to explain what it is showing and what the application does.

3. Level C: Deeper Understanding

Level C focuses on showing that you have actually understood the tool or technology at a relatively advanced level. You will need to compare it to alternatives, identifying key strengths and weaknesses, and the areas where this tool is most effective.

3.1. Strengths

What are the key strengths of the item you have learnt? (50-100 words)

3.2. Weaknesses

What are the key weaknesses of the item you have learnt? (50-100 words)

3.3. Usefulness

Describe one scenario under which you believe the topic you have learnt could be useful. (50-100 words)

3.4. Key Question 1

Note: This question is in the table in the 'Self Learning: List of Topics' page on Canvas. (50-100 words)

3.5. Key Question 2

Note: This question is in the table in the 'Self Learning: List of Topics' page on Canvas. (50-100 words)

4. Level D: Evolution of skills

4.1. Level D Demonstration

This is a short description of the application that you have developed. (50-100 words). **IMPORTANT:** *You might wish to submit this as part of an earlier submission in order to obtain feedback as to whether this is likely to be acceptable for level D.*

4.2. Application artifacts

Include here a description of what you actually created (what does it do? How does it work? How did you create it?). Include any code or other related artefacts that you created (these should also be included in your github repository).

If you do include screengrabs to show what you have done then these should be annotated to explain what it is showing and what the application does.

4.3. Alternative tools/technologies

Identify 2 alternative tools/technologies that can be used instead of the one you studied for your topic. (e.g. if your topic was Python, then you might identify Java and Golang)

4.4. Comparative Analysis

Describe situations in which both your topic and each of the identified alternatives would be preferred over the others (100-200 words).

Bibliography

[1] The University of Sydney, "Referencing and citation styles: IEEE," 2022, see https://libguides.library.usyd.edu.au/c.php?g=508212.