COMP3056 – Professional Ethics in Computing

CW02 Requirements – Case Study Analysis

Instructions

Coursework 02 is worth **25%** of the overall module assessment and is to be conducted **individually**. The deliverable for this coursework consists of one single PDF file submitted via Moodle. Please name the file as follows:

COMP3056.cw02.*STUDENT_ID*.pdf (replace "*STUDENT_ID*" with your actual ID)

The normal submission deadline is **23:59 on December 12, 2020**. Work submitted after this date will be subject to a penalty of 1.25 marks (the standard 5% absolute) for each late working day out of the total 25 marks. The late submission deadline is **23:59 on December 18, 2018**. Submissions after this date will only be accepted if a justification is provided and supported by a valid extenuating circumstances (EC) form. Students are reminded of the Policy on Plagiarism and must ensure that all material from other sources is clearly quoted and acknowledged. Please refer to the quality manual regarding the university's policy on plagiarism.

This Case Study Analysis coursework consists in writing an ethical reasoning and critical argument to identify, discuss and address potential ethical issues for a given computing project. Details are described, below.

Written Case Study Analysis

If you have a defined or tentative computing individual project for your course, and a short project proposal for it, then please use that project for this coursework. Alternatively, you can use a computing project in which you have participated in the past (group or individual project) and for which no ethical reasoning has been developed. If none of the above options works for you, please contact the module convener who will provide one for you. Then, you will have to identify two ethical issues that could arise in your project and hence could be the subject of the ethical reasoning. The **two issues** should be selected from the themes covered in the course, e.g.: privacy; intellectual and intangible property; trust, safety and reliability; cyber-behaviours; vulnerable groups; autonomous and pervasive technologies.

The full written case study analysis should follow the template (i.e., the sections of the document) provided below. The length of the case study analysis should be **1800 (±300)** words, not including the list of references and optional appendix. The Submission should contain the front page, followed by the CW02 content (introduction, description, analysis, .

Front page template:

CW02 content template:

Project Title Page
See the template.

Introduction
Make a short introductory statement, followed by description of the computing project considered in this case study. Complete the introduction by indicating why ethical analysis is important for this project. The following aspects should be covered as a minimum: purpose of the project, main functionalities, inputs and outputs. Any project that aims at the development of a computer system, even research-based or theoretical projects, could be appropriate for this case study analysis.

Ethical Issues and Analysis
Develop an ethical reasoning that describes and discusses **two** selected ethical issues that could arise with the implementation and deployment of the computer system considered. It is expected that materials covered in the lectures and workshops (including additional readings) are used in order to write a better ethical reasoning. You should also identify and refer to similar systems in the real-world, problems with those systems as reported in the literature and the media, the computing professional codes, etc.

Proposed Way Forward
Based on the ethical reasoning developed in the above section, propose a critical argument for the way forward to eliminate or mitigate the potential ethical issues identified, and with

a view to develop an improved version of the proposed computer system. It is expected that materials covered in the lectures and workshops as well as selected additional readings are used to write a better critical argument. You may also refer to similar systems in the real-world, problems with those systems as reported in the literature and the media, the computing professional codes, etc.

Conclusion

Write a brief summary of the case study analysis and the major conclusions you have drawn.

References

List of references cited in the document. The list of references is not included in the word limit for the case study analysis. References should be in a consistent format – you can choose one of the commonly used formats. A concise definition of the format is provided (source http://www.cs.ucy.ac.cy/~chryssis/specs/ACM-refguide.pdf). You must provide complete and correct references; this will be assessed as a part of the marking criteria.

Appendix

Any additional material considered useful to supplement the case study analysis but that is not essential for the main body of the document. It is not mandatory to include an appendix and if included, its content must be carefully selected so that it actually benefits the reader. The appendix is not included in the word limit for the case study analysis.

Marking criteria:

There is a total of 25 marks available, assessed using the following criteria:

Assessment Criteria	Marks	Detailed Criteria
Content	13	How well the project is introduced; the ethical issues identified; the critical arguments presented; the proposed way forward; and contextualizing using related real-world systems. Complete, correct, and high-quality content covering all aspects indicated above (and perhaps more), evidence of wide reading, and reference to the module lectures and workshops.
Presentation	6	The case study analysis should have good structure and organisation, correct English lexicon and grammar, right format for citations/reference, have correct word count, and good quality of supplementary material (if an appendix is included).
Academic Writing	6	The case study analysis should reflect the elements of quality academic writing. That is, the writing should be coherent, precise, objective, succinct, fluent, lucid, original, reflective, and critical. In addition, the report should demonstrate a considered review of related literature has been conducted and relevant citations made.