



Supervisor's statement of a final thesis

Supervisor: Ing. Josef Kokeš, Ph.D.
Student: Eliška Helikarová
Thesis title: Analysis of the CTU Teaching Survey's Anonymity
Branch / specialization: Computer Security and Information technology
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Evaluation criteria

1. Fulfillment of the assignment

- ▶ [1] assignment fulfilled
- [2] assignment fulfilled with minor objections
- [3] assignment fulfilled with major objections
- [4] assignment not fulfilled

2. Main written part 100/100 (A)

The written part of the thesis provides a well researched and quite in-depth analysis of the CTU Teaching Survey. The text is logically structured, starting with the necessary preliminaries both for the application and for the underlying theoretical concepts, followed by a detailed threat analysis of the application, finally leading to a reliable security assessment of the application. The language level of the thesis is very good, making it easy to understand and apply. The research part in particular is exceptionally well done.

3. Non-written part, attachments 80/100 (B)

The non-written parts of the thesis are quite limited, which is usual and expected for this type of work. For the most part, they consist of the logs for selected scenarios; these could use at least some description rather than leaving it to the reader's imagination as to what they mean.

I would like to point out the very detailed threat analysis that served as the backbone of the thesis but only parts of it made it into the final text - I find this part exceptional and well worth reading.

4. Evaluation of results, publication outputs and awards

95 /100 (A)

The results of the thesis consist of a set of recommendations for modifications to improve the security of the application as well as the anonymity of its users. A major vulnerability that could potentially completely invalidate the Survey's results was discovered and promptly fixed.

5. Activity of the student

- ▶ [1] excellent activity
- [2] very good activity
- [3] average activity
- [4] weaker, but still sufficient activity
- [5] insufficient activity

6. Self-reliance of the student

- [1] excellent self-reliance
- ▶ [2] very good self-reliance
- [3] average self-reliance
- [4] weaker, but still sufficient self-reliance
- [5] insufficient self-reliance

The overall evaluation

95 /100 (A)

The thesis was intended to analyze the anonymity properties of the CTU Teaching Survey and provide all stakeholders with a reason to trust the application. I believe that goal was achieved. The students in particular should find the results important - they now have a reason to believe that they can submit their opinions without a fear of retribution, but the thesis also provides them with information about the parts of the application that need more caution. Hopefully, this will lead to improved submission rates and more detailed and reliable answers in the Survey. I think that's a good thing. I recommend the thesis for defense and propose to grade it A-excellent.

Instructions

Fulfillment of the assignment

Assess whether the submitted FT defines the objectives sufficiently and in line with the assignment; whether the objectives are formulated correctly and fulfilled sufficiently. In the comment, specify the points of the assignment that have not been met, assess the severity, impact, and, if appropriate, also the cause of the deficiencies. If the assignment differs substantially from the standards for the FT or if the student has developed the FT beyond the assignment, describe the way it got reflected on the quality of the assignment's fulfilment and the way it affected your final evaluation.

Main written part

Evaluate whether the extent of the FT is adequate to its content and scope: are all the parts of the FT contentful and necessary? Next, consider whether the submitted FT is actually correct – are there factual errors or inaccuracies?

Evaluate the logical structure of the FT, the thematic flow between chapters and whether the text is comprehensible to the reader. Assess whether the formal notations in the FT are used correctly. Assess the typographic and language aspects of the FT, follow the Dean's Directive No. 52/2021, Art. 3.

Evaluate whether the relevant sources are properly used, quoted and cited. Verify that all quotes are properly distinguished from the results achieved in the FT, thus, that the citation ethics has not been violated and that the citations are complete and in accordance with citation practices and standards. Finally, evaluate whether the software and other copyrighted works have been used in accordance with their license terms.

Non-written part, attachments

Depending on the nature of the FT, comment on the non-written part of the thesis. For example: SW work – the overall quality of the program. Is the technology used (from the development to deployment) suitable and adequate? HW – functional sample. Evaluate the technology and tools used. Research and experimental work – repeatability of the experiment.

Evaluation of results, publication outputs and awards

Depending on the nature of the thesis, estimate whether the thesis results could be deployed in practice; alternatively, evaluate whether the results of the FT extend the already published/known results or whether they bring in completely new findings.

Activity of the student

From your experience with the course of the work on the thesis and its outcome, review the student's activity while working on the thesis, his/her punctuality when meeting the deadlines and whether he/she consulted you as he/she went along and also, whether he/she was well prepared for these consultations.

Self-reliance of the student

From your experience with the course of the work on the thesis and its outcome, assess the student's ability to develop independent creative work.

The overall evaluation

Summarize which of the aspects of the FT affected your grading process the most. The overall grade does not need to be an arithmetic mean (or other value) calculated from the evaluation in the previous criteria. Generally, a well-fulfilled assignment is assessed by grade A.