Requirements for bachelor thesis

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1 Introduction

For the first task we have found the documentation for writing a bachelor thesis on Moodle. Some PowerPoint slides are available from the previous semester introducing the requirements of the bachelor thesis[1] alongside with the curriculum for the BPA in Software Development.[2] Below we will describe our findings.

2 The formalities

The student must write a problem statement preferably in collaboration with a private or public company. The problem statement and project must be relevant for the education and the company.

The maximum size of the bachelor project is 40 normal pages (2400 characters pr. page) pr. report +20 normal pages pr. student, i.e.:

- One student can hand-in up to 60 pages

- Two students can hand-in up to 80 pages, etc

There is no absolute minimum, but teachers and examiners experience it to be short if it is shorter than 2/3 of the maximum.
It can be written by groups as well as individual students.

3 Essence of the bachelor thesis

In the bachelor project, the student must document the ability to process on an analytical and methodological basis a complex and practical problem statement in relation to a specific task within the IT area.

4 Learning objectives

The final bachelor project must document that the graduation level of the education has been achieved.

4.1 Knowledge

The graduate has knowledge of:

- the strategic role of testing in system development

- globalization of software production

- system architecture and understanding of its strategic significance for the business of the company

- applied theory and method together with comprehensive technologies within the domain

- connections between applied theory, method and technology and can reflect on their suitability in different situations

4.2 Skills

The graduate can:

- handle the planning and implementation of tests of major IT systems

- enter into professional collaboration on the development of large systems using comprehensive methods and technologies

- familiarize themselves with new technologies and standards for managing integration between systems

- through practice develop a competence profile from primarily being a backend developer to handle tasks as a system architect

- deal with the definition and realization of a business-wise and technologically appropriate architecture for large systems

4.3 Competences

The graduate can:

- handle the planning and implementation of tests of major IT systems

- enter into professional collaboration on the development of large systems using comprehensive methods and technologies

- familiarize themselves with new technologies and standards for managing integration between systems

- through practice develop a competence profile from primarily being a backend developer to handle tasks as a system architect

- deal with the definition and realization of a business-wise and technologically appropriate architecture for large systems

5 Relation to Internship

It is recommended your bachelor project builds on the experiences and the product of your company work. Often the internship report contains descriptions of the company and the work you did. You can reuse those parts if you state it clearly in the bachelor report.

6 Content

The bachelor report must focus on one or more of the mandatory courses of the program:

- System Integration

- Test

- Databases for Developers

- Large Systems Development

The bachelor project is typically centred on the development of a product, the product being a final developed and deployed product, a part of such, or a prototype

The bachelor report should contain:

- A thorough description of the work done

- A thorough evaluation and reflection of that work

References

[1] Cphbusiness. Bachelor project kick-off spring 2019.

[2] Cphbusiness. Studieordning for softwareudvikling.