

# ETSN05 – Individual Assignment

September 11, 2019

## 1 Objectives

The main objectives of the individual assignment are:

1. to stimulate reflection on large-scale software development continuously through the course,
2. to encourage a viewpoint on industrial practice in large-scale software development,
3. to build on and integrate with what you have learned from previous courses,
4. to provide a basis for individual assessment.

## 2 Assignment

Continuously through the course you should reflect and document your reflections in a report including at least answers to the following questions:

1. What was challenging and what was easy in your own work?
2. What was challenging and what was easy in your fellow project members work?
3. What are the similarities and differences between the controlled course situation and industrial practice?
4. What is realistic about the course setting, and what is not so realistic?
5. What role does the scale (in terms of product, process, and organization) play in the challenges you have had during the project?
6. What is easy in a small-scale project while significantly more challenging in a large-scale project? (Which problems are not more or less difficult to address when carried out in a large-scale setting compared to a smaller scale setting?)
7. What possibilities for software process improvement for the process can be identified?

The discussion should include motivations for your suggestions. It should also be based on identified relevant scientific literature (at least 2-3 identified scientific resources).

### 3 Report requirements

1. The report should be written on an individual basis with your own reflections and your own words.
2. It is not allowed to collaborate in the report writing, although it is allowed to discuss your reflection with your course student members. The department policy on plagiarism should be adhere to:  
[http://cs.lth.se/english/education/cooperation\\_or\\_plagiarism](http://cs.lth.se/english/education/cooperation_or_plagiarism)
3. The report should be maximum 3 pages in A4 format, using 11 pt times. (plus front page, references, etc)
4. Deadline: See course program.

### 4 Assessment Criteria

The report is given a graded and weighted in the final grade according to the course program. The grading is based on the following assessment criteria:

1. Ability to do in-depth reflections on own project work.
2. Ability to do in-depth reflections on other project members' work.
3. Demonstrated depth in understanding of challenges specific to large-scale software development, in each of the following areas:
  - (a) requirements,
  - (b) architecture & design,
  - (c) change management and configuration management,
  - (d) project planning, software processes, and project organization,
  - (e) development process,
  - (f) software testing and quality assurance, and
  - (g) human issues.
4. Ability to relate to scientific literature (e.g. conference publications, journal publications)
5. Ability to reason in a qualified way about challenges related to project size and complexity.
6. Ability to go beyond the course setting and compare to a hypothesized real, industrial, large-scale software development project.
7. Ability to relate to experience and theory from previous courses.
8. Ability to present the material in a written report (structure, language, etc)
9. Ability to meet assignment deadline.