# 02162, Software Engineering 2, Autumn 2023: Final Submission(s)

The final submission in the course Software Engineering 2 is via DTU Learn. Note that the final submission consists of two parts: the *group submission* of the project and an *individual submission* with the individual contributions and reflections of each student.

The deadline for both parts of the final submission is *Thursday, December 21, 2023 at 23$^{59}$*.

## Group Submission

The group submission should contain all necessary software projects (including build and project files); they should be submitted as a tagged commit in the group's repository, to which Ekkart should be given access (at least on the "reporter" level). The DTU Learn submission should clearly refer to the tag (preferred) or the SHA hash value of the commit; and the submission should indicate where to find which projects and how to use them and deploy them (README). Moreover, the submission should contain all documentation (updated system specification), handbook, test documents — uploaded as PDF files to the group's DTU Learn Assignment for the final submission.

The main rational is that it should be possible to install and deploy the group's software based on the READMEs and the submitted documents only. Moreover, it should be possible to use your software just based on the delivered handbook (which is part of the report/documentation).

In addition, you should have a version of your web application deployed and running on the group's virtual machine for the evaluation. The submission must contain the information where to find the group's running web application (link). The evaluation will very likely go on from January 9 to January 24. If needed for using your system, provide user accounts and the resp. passwords for the different users in the different relevant roles as a separate part of your submission, so that we can try out your system.

The final group submission must include:

1. All necessary code. All the non-generated code should have comments and author tags. Note that the author tags must refer to individual students. If the author tag is not the student number, it needs to be clearly stated with the submission which author tag stands for which student; and each student should use the same author tag throughout all parts of the software and its documentation (see below). Note that there can be more than one author for the same class or method.
2. Provide access to the repository the group was using for the development of the software and a list of the user names of each group member in the respective repository. It must be clearly indicated where to find the final version of the software in the repository (tagged commit).
3. Instructions on how to install and deploy the software (on a web server / virtual machine) and on how to configure and use it (could be part of the handbook or systems specification).
4. The running version of the web application, should have a complete example set up demonstrating all the features and qualities of your software, and information on how to use this set up (can be part of the handbook) — possibly in different roles.

5. The revised and updated systems specification and the handbook as PDF documents (if it is clearly indicated, the handbook can be submitted as part of the systems specification).
6. These documents must clearly indicate which parts were written by which students, so that the individual contributions of the students can be evaluated (using the same unique author tags as for the author tags in the software).
7. Documentation of tests (automatic tests such as unit test should be submitted as code; for manual tests, it is enough if they are included in some test reports).
8. A list identifying which students have worked on which parts of the project. This concerns the work on the software (in addition to the author tags in the code) and organisational and management work, or work on testing, which is not documented somewhere else (this list does not need to include the work on the different parts of the documentation and the handbook, since these are authored, see 6.).

If the author tag in the code and documents deviates from the student number of the student, the submission must contain a list stating which author tag represents which student (see 1.).

## Individual Submission

In addition to the group submission, **every student** must submit an individual document (as a PDF document) via the corresponding DTU Learn Assignment. In this document, each student should discuss the own contributions to the project, in which parts the student was involved, and in which other activities and duties (project leader, responsibilities in the different phases, quality management, etc.) the student involved during the project. Moreover, the student should reflect on some of the experiences made during this project. This document should be 1-2 pages long and submitted also by Dec. 21, 23$^{59}$ via DTU Learn by each student individually.

## Check List

Please make sure that the submission is complete and the software will run when installed on a different computer and platform; in particular, make sure that the software and its configuration do not use absolute path names.

Here is a check list for the final submission:

1. Are all required files and documents submitted?
2. Are the documents complete and understandable?
3. Did you provide the access information to your repository (or repositories) to Ekkart (at least on "reporter" level)?
4. Did you add a tag to the commit(s) of the final version in the repository, and include the information on which commits constitute the final version of your software in your submission?
5. Did you deploy a running version of your web application on the group's VM and properly set up the configuration? Did you provide the link to this web application? Did you provide the access information to your running version of you web application (user names and passwords for all necessary roles)?
6. Does the submission contain all necessary details for installing, starting and using the group's software?
7. Are the path, build and configuration files of the projects set up in such a way that the projects build and run on other computers. Are paths to resources independent from a specific computer? Make sure to test this!
8. Did you remove all references to out-dated or irrelevant packages, dependencies or plugins?
9. Did you delete all output commands to the console from the code (or only made in debugging mode)?
10. Does the software include comments? In particular, did you include the author tags for all non-generated parts of the software? Are the author tags used consistently throughout the submitted documents (code and PDF)?
11. Does the documentation include the information on the authors for the different parts?
12. If the author tags are not the student numbers, did you provide a list of the author tags used for each student as author tag?
13. Did you provide a list of the user names for each student in that group's repository (repositories)?

14. **Did every student submit his or her individual document** (own contributions and reflections)?