

# COMP3900/9900

## 2023 Term 3

### Software Quality Assessment

❖ **Software Quality** (due Friday 17 November 2023 Week 10 @ 9.00pm) (worth 20%)

The submission for this assessment should include your entire **codebase** that you have developed for the project. This assessment is mainly for the **scale and technical depth** of the delivered implementation, the **correctness** of the implementation, its **value/novelty**, its **performance** (e.g., is it too slow for its intended usages), **clarity of your code**, **documentation**, **design** (including **interface design**), **structure** and **organization**, and **ease of use**. The marking criteria to be used are shown below.

- ❖ The final system should be compiled and built successfully by running **make** (if you include a makefile), and any installation, setup, build, or config information that is required for your system should be included in the readme file that comes with your submission. Ensure your submission includes your entire system source code and any other artefacts required by your system, as well as clear information for how to run your system inside your readme file.

- ❖ Please make sure you also look at the Moodle **Software Quality** assessment submission page under **Assessments Hub** section for submission instructions and follow those submission instructions.

If your submission **exceeds 200MB** (maximum size accepted by Moodle):

1. Create a **zip** file of your submission with file name:

<TeamName>FinalSoftwareQuality.zip

(where <TeamName> is replaced with your team's name)

2. Use the command line to push this **zip** file to your team's **GitHub** classroom repository by the deadline for this assessment.

3. Follow instructions on the Moodle submission link to **submit a zip file that includes a Readme.txt plain text file**. This text file should mention that you have uploaded your final submission to your team's GitHub Classroom repository on time (commit history should reflect this) and include a link in this text file to your submission on GitHub Classroom. Also **email your mentor to let them know that you have taken the GitHub approach** to submission.

Note: If your submission exceeds 200MB, you will need to use **git-lfs** to push your submission to your team's GitHub Classroom repository: <https://git-lfs.github.com/>. Please do that **ONLY one time** once you have completed your assessment since there is a limit from GitHub for the use of git-lfs for our GitHub organisation.

The following marking criteria will be used for the Software Quality assessment item.

## Software Quality Marking Criteria

Category	Max Mark	Team Mark	Comments
<b>Technical Depth and Novelty (45%)</b>	<b>9</b>		
Not done or very poorly done	0		
Implementation far from completion	1.8		
Partial implementation according to the scope of all project objectives without solving technical challenges	3.6		
Complete implementation and solving some technical challenges	5.4		
Complete implementation with good degree of technical novelty and functional novelty	7.2		
Complete implementation with excellent degree of technical novelty and functional novelty	9		
<b>Correctness and Performance (30%)</b>	<b>6</b>		
Not done or very poorly done	0		
Buggy and unacceptable performance	1.2		
Overall correct but slow	2.4		
Overall correct and acceptable performance	3.6		
Robust and good performance	4.8		
Robust and excellent performance	6		
<b>Code Style, Structure, and Readability (12.5%)</b>	<b>2.5</b>		
Not done or very poorly done	0		
Messy code structures and difficult to read	0.5		
Not well organized but readable	1		
Well structured and readable code with some documentation	1.5		
Well structured and readable code with ample documentation	2		
Easy to read, well documented, and demonstration of excellent coding style and practice	2.5		
<b>User Interfaces and Usability (12.5%)</b>	<b>2.5</b>		
Not done or very poorly done	0		
Primitive user interfaces and difficult to use	0.5		
Poorly designed user interfaces but still usable	1		
Good UI design with usability issues on some cases	1.5		
Good UI design and ease of use in all aspects	2		
Professional UI design and excellent usability	2.5		
<b>Total Mark (out of 20)</b>	<b>20</b>		