



CMPT 275-4 E100 – Software Engineering I  
Fall 2017

Assignment 3 (10%) – Version One<sup>1</sup>

Deliverables	Due	Time
<b>Version one of the software + documentations</b>	<b>Mon Nov 6, 2017</b>	<b>5:00PM</b>

**PLEASE NOTE THE DUE DATE AND TIME.  
LATE SUBMISSION WILL NOT BE ACCEPTED.**

**Deliverables:**

1. A zip file for the source code and required libraries.
2. Documents (new version with updates): User Manual, Design Document, and Quality Assurance Plan.
3. Presentation PPT

Submit two zip files with names (note: not rar file)

1. **2017-3-CMPT275-Group-XX\_src.zip** (contain source code) and
2. **2017-3-CMPT275-Group-XX\_doc.zip** (contain all documents + PPT)

Document files need to be in MS Word format. In addition, you can submit a PDF version of the file. For this assignment, you do not have to submit files to TurnItIn.com.

**Filename convention:** Group-XX-Requirements.docx, Group-XX-Design.docx, and Group-XX-QA.docx. Note that XX is your group number, e.g. for group 1, XX=01.

There is no need to submit anything to TurnItin in this assignment.

The goal for this assignment is to produce a **working version of your system** that implements all your version one features (as specified in your previous assignment). Remember, you must test all code your team puts into this version. Untested code will be treated as if it were unimplemented. It is your team's responsibility to clearly show how you have done this testing!

In addition to the working system, your team must also do the following.

**Update the User Manual, Design Document, and Quality Plan  
(In addition to make these document available on the project website, submit these document in canvas.sfu.ca as well.)**

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<sup>1</sup> Special appreciation goes to Dr. Toby Donaldson for the description of this assignment.

Prepare new versions of the user manual, design document, and quality plan so that they are consistent with the system you actually implement. The next version of your system will be built from this one, so it is essential to have up to date and accurate documentation.

**Do not delete your previous documents!** Keep all the files for your previous assignments so that you can see how your system has changed over time. **These different versions and the meeting minutes should be made available on your project website. The instructor will occasionally go to check on your website.**

Do not change or rewrite your vision and scope document (unless requested by the marker!). It is instructive to see how your original ideas about the system compare to the working version you actually create.

## **Source Code Documentation**

Source code documentation is an essential part of maintainable software. Thus, all source files must have a standard header that names the file, lists the programmers who have worked on it, gives the team name, lists changes that have been made, list known bugs, etc. Note that Subversion tracks this information if you use comments when you commit code.

Your team must also state and follow a coding standard with all of its files. This coding standard must be explicitly written down. For example, identifiers (i.e. names of variables, classes, methods, and files) should be self-descriptive, and code formatting should be perfect and consistent.

Make every effort to ensure your source is clear, simple, and easy to understand. Use internal source comments when necessary, but if you make your code self-descriptive as requested, then it may not be necessary to write comments for some functions/classes.

All major functions, classes, and files should have source code comments that explain their purpose, with examples if needed. Generally, the more important or complicated the function, the more detailed the comments.

## **Usability**

The interface should be easy to use and appealing, and your program should not crash, nor claim to have any features that do not currently work. Keep in mind that fancy-looking graphics need not be necessary, and do not guarantee a good interface!

## **Presentation Requirements**

After you submit your assignment, your group will make a short presentation to the class. Presentation will be done during the first half of the class on due date. Presentation sequences are randomly chosen.

- Introduce your system and give a brief overview of your application. What is the goal of this application? What is the user's need?
- Summarize the version of the system you have implemented. Pay particular attention to the how your system differs from the user manual and design document from the previous assignment.
- Show us (briefly) the testing you did for your system.

- Please clearly list the features you plan to deliver at each of the subsequent deliverable stages. (e.g. List the features for Version 1, Version 2, and Version 3)
- Demonstrate your system. Show us the most interesting aspects of it. Due to time constraint, you might want to use a video to accomplish this task.
- Your presentations will be timed: take no more than 12 minutes in total **(10 minutes in total + 2 min. for Q&A)**. Be prepared to answer questions afterwards both about your system and how you team worked together.
- All team members are expected to attend the presentation. All students are expected to stay for the entire class period. No electronic devices will be allowed during the exam.
- Finally, the presentation for Version One is technical presentation where you can assume the audience is made up entirely of software engineers. It is only in the final presentation of your completed project where you must be prepared for audience members who are not necessarily technically inclined.
- You will only be allowed to use the computer in the lecture for the presentation. (You cannot use your own laptop). Put all the materials you need on a USB stick, you can pre-load them onto the lecture theatre computer. If you are going to show a video, please make sure it is playable on the computer and/or you might want to upload your video to YouTube.
- You can decide who will represent your team to make the presentation. Not everyone has to speak but everyone will need to be present. Marks will be deducted if members are absent.

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