

Reflection Report on Software Engineering

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[Reflection is an important component of getting the full benefits from a learning experience. Besides the intrinsic benefits of reflection, this document will be used to help the TAs grade how well your team responded to feedback. In addition, several CEAB (Canadian Engineering Accreditation Board) Learning Outcomes (LOs) will be assessed based on your reflections. —TPLT]

1 Changes in Response to Feedback

[Summarize the changes made over the course of the project in response to feedback from TAs, the instructor, teammates, other teams, the project supervisor (if present), and from user testers. —TPLT]

[For those teams with an external supervisor, please highlight how the feedback from the supervisor shaped your project. In particular, you should highlight the supervisor's response to your Rev 0 demonstration to them. —TPLT]

[Version control can make the summary relatively easy, if you used issues and meaningful commits. If your feedback is in an issue, and you responded in the issue tracker, you can point to the issue as part of explaining your changes. If addressing the issue required changes to code or documentation, you can point to the specific commit that made the changes. —TPLT]

1.1 SRS and Hazard Analysis

There were several changes made to the SRS and hazard analysis as a result of feedback from Dr. Smith, our TAs, peers, and supervisors.

SRS:

- Peer feedback
 - Update the individual product use cases to be fully black-box use cases. We did this by only focusing on what the use case is, and

not describing how it could be done. This ensures the design is not constrained in the SRS (see [Issue 12](#), [this commit](#) and [this commit](#) for more details).

- Improve NFR-1 to make it less ambiguous (see [Issue 14](#) and [this commit](#) for more details).
- Improve NFR-12 to make it less ambiguous (see [Issue 15](#) and [this commit](#) for more details).
- Added user characteristics to make the target users more clear (see [Issue 13](#) and [this commit](#) for more details).
- Dr. Smith and supervisors - After the revision 0 demo, both parties had very useful feedback, which we implemented in many places throughout the app and documentation.
 - Add a map to be able to see exactly where the trial/study is being held (see [Issue 138](#) and [this commit](#) for more details). This was recommended by our supervisors.
 - Add a disclaimer/title to the profile creation page to make the purpose of the page more clear (see [Issue 155](#) for more details). This was recommended by both Dr. Smith and our supervisors.
 - Add the ability to filter the studies/trials by distance (see [Issue 178](#) and [this commit](#) for more details). This was recommended by both Dr. Smith and our supervisors.
- Other
 - Add FR-4, FR-5, FR-11 to the waiting room as they were not implemented.

Some other useful issues to give more insight into the changes we have made to the SRS documentation are provided below:

- [Issue 251](#)

Hazard Analysis:

- Peer feedback/TA feedback
 - Added some critical assumptions. This addresses feedback provided to us by our peers, and also feedback from the TA via the graded rubric (see [Issue 35](#) and [this commit](#) for more details).
 - Added a definition of failure. This also addresses feedback provided to us by our peers and the TA (see [Issue 36](#) and [this commit](#) for more details).

- Add failure mode for email generation. This also addressed feedback provided to us by our peers and the TA (see [Issue 37](#) and [this commit](#) for more details).
- Make SR-6 less ambiguous by improving the wording of the requirement. This addresses feedback provided to use by our peers (see [Issue 39](#) and [this commit](#) for more details).
- Removed the notification subsystem as it is currently out of scope. This addresses feedback provided to us by our peers (see [Issue 38](#) and [this commit](#) for more details).
- Added traceability to FRs in the FMEA table (see [Issue 40](#) and [this commit](#) for more details).

Some other useful issues to give more insight into the changes we have made to the Hazard Analysis documentation are provided below:

- [Issue 250](#)

1.2 Design and Design Documentation

1.3 VnV Plan and Report

VnV Plan:

- Peer/TA Feedback.
 - Added missing abbreviations to the symbols section in response to peer review (see [Issue 45](#) and [this commit](#) for more details).
 - Added addition characteristics for the typical user tester in response to peer review (see [Issue 46](#) and [this commit](#) for more details).
 - Added reference to the grading rubric in response to peer review (see [Issue 47](#) and [this commit](#) for more details).
 - Added clarification on what a greater than 7 score would mean in terms of testing in response to peer review (see [Issue 48](#) and [this commit](#) for more details).
 - Added an open ended additional concerns question to the usability survey in response to peer feedback (see [Issue 49](#) and [this commit](#) for more details).
 - Fixed some formatting issues including removing some whitespace from the document in response to TA feedback through the marking rubric (see [Issue 255](#) and [this commit](#) for more details).
 - Improved clarity of NFR and FR tests in response to TA feedback through the marking rubric (see [Issue 256](#) and [this commit](#) for more details).

- Adding missing reference to hazard analysis in the relevant documents section in response to TA feedback through the marking rubric (see [Issue 257](#) and [this commit](#) for more details).
- Added more specific plan for nondynamic testing in response to TA feedback through marking rubric (see [Issue 258](#) and [this commit](#) for more details).

VnV Report:

- TA Feedback (No peer review was received for this deliverable).
 - Expanded on the changes made due to testing, in response to received feedback on the marking rubric (see [Issue 254](#) and [this commit](#) for more details).³
 - Added a screenshot of the failed linting in the maintainability section to provide convincing evidence of the test failing, in response to received feedback on the marking rubric (see [Issue 253](#) and [this commit](#) for more details).

2 Design Iteration (LO11)

[Explain how you arrived at your final design and implementation. How did the design evolve from the first version to the final version? —TPLT]

3 Design Decisions (LO12)

[Reflect and justify your design decisions. How did limitations, assumptions, and constraints influence your decisions? —TPLT]

4 Economic Considerations (LO23)

[Is there a market for your product? What would be involved in marketing your product? What is your estimate of the cost to produce a version that you could sell? What would you charge for your product? How many units would you have to sell to make money? If your product isn't something that would be sold, like an open source project, how would you go about attracting users? How many potential users currently exist? —TPLT]

5 Reflection on Project Management (LO24)

[This question focuses on processes and tools used for project management. —TPLT]

5.1 How Does Your Project Management Compare to Your Development Plan

[Did you follow your Development plan, with respect to the team meeting plan, team communication plan, team member roles and workflow plan. Did you use the technology you planned on using? —TPLT]

5.2 What Went Well?

[What went well for your project management in terms of processes and technology? —TPLT]

5.3 What Went Wrong?

[What went wrong in terms of processes and technology? —TPLT]

5.4 What Would you Do Differently Next Time?

[What will you do differently for your next project? —TPLT]

6 Reflection on Capstone

[This question focuses on what you learned during the course of the capstone project. —TPLT]

6.1 Which Courses Were Relevant

[Which of the courses you have taken were relevant for the capstone project? —TPLT]

6.2 Knowledge/Skills Outside of Courses

[What skills/knowledge did you need to acquire for your capstone project that was outside of the courses you took? —TPLT]