Reflection and Traceability Report on Plutos

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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. Therefore, traceability between Revision 0 and Revision 1 is and important part of the reflection exercise. 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 you 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. Although the links are helpful for the details, you should include a label for each item of feedback so that the reader has an idea of what each item is about without the need to click on everything to find out. —TPLT]

[If you were not organized with your commits, traceability between feedback and commits will not be feasible to capture after the fact. You will instead need to spend time writing down a summary of the changes made in response to each item of feedback. —TPLT]

[You should address EVERY item of feedback. A table or itemized list is recommended. You should record every item of feedback, along with the source

of that feedback and the change you made in response to that feedback. The response can be a change to your documentation, code, or development process. The response can also be the reason why no changes were made in response to the feedback. To make this information manageable, you will record the feedback and response separately for each deliverable in the sections that follow. —TPLT]

[If the feedback is general or incomplete, the TA (or instructor) will not be able to grade your response to feedback. In that case your grade on this document, and likely the Revision 1 versions of the other documents will be low. —TPLT]

1.1 SRS and Hazard Analysis

Table 1: SRS Issues

Issue Number	Source	Issue Title	Addressed?	PR	Comments
105	TA	docs(SRS): Include formal/math specs		x	
106	TA	docs(SRS): Add section for "normal operation"		x	
107	TA	docs(SRS): Add section for undesired event handling		x	
108	TA	docs(SRS): Add fit criterions to requirements		x	
109	TA	docs(SRS): Link requirements to rationale section		x	
110	TA	docs(SRS): Link likely and unlikely changes to requirements	✓	303	Linked requirements to un/likely changes
38	Peer Review	peer-review[team 23]: OCR system accuracy	✓	–	This was a question, which was answered as a comment in the issue.
39	Peer Review	peer-review[team 23]: OCR pipeline privacy	✓	–	This was a question, which was answered as a comment in the issue.
40	Peer Review	peer-review[team 23]: release platform		x	
41	Peer Review	peer-review[team23]: Non-Functional Requirements Verifiability	✓	179	Changes made
42	Peer Review	peer-review[team 23]: Ambiguous Response Time Specifications	✓	179	Changes made
43	Peer Review	peer-review[team 23]: Item Recognition and Categorization Requirements	✓	299	Slightly reworded requirements to make them more clear, but the issue was more of a clarification question than feedback
44	Peer Review	peer-review[team 23]: Data retention and Deletion Policies	✓	179	Changes made
105	TA Feedback	docs(SRS): Include formal/math specs	✓	300	Added formal math specifications in SRS for OCR model, data constraints, budget calculation and receipt/receipt item data definitions

Table 2: Hazard Analysis Issues

Issue Number	Source	Issue Title	Addressed?	PR	Comments
111	TA	docs(hazards): Add list of tables	✓	288	Added table
112	TA	docs(hazards): Put constants in constants section	✓	288	Refered to symbolic constants
113	TA	docs(hazards): Fix hazard recommended action	✓	299	Changed recommended action
51	Peer Review	Peer Review (hazards) - Expand Analysis on External System Interactions		x	
52	Peer Review	Peer Review (hazards) - Enhance Network Failure Handling and Data Integrity Measures		x	
53	Peer Review	Peer Review (hazards) - Improve Hazard Mitigation User Feedback		x	
54	Peer Review	Peer Review (hazards) - some assumptions needed for user end equipment	✓	187	Added suggested assumptions
55	Peer Review	Peer Review (hazards) - concern about problem resolvement	✓	187	Added suggested changes

1.2 Design and Design Documentation

1.3 VnV Plan and Report

Table 3: VnV Plan Issues

Issue Number	Issue Title	Addressed?	PR	Reason
74	Peer Review - Automated Testing and Verification Tools	×	298	Daily sanity checks aren't necessary as we are running the tests and linter pipelines on every PR. This will ensure that the app/features work seamlessely after every change.
75	Peer Review - Load Testing for Concurrent Users	×	298	Already addressed in initial version of VnVPlan 'Performance tests can be conducted to measure the app's speed and reliability, especially when processing large receipts or handling multiple users'.
120	TA - docs(vnv): system tests for FRs	✓	290	Adjust control of system tests.
119	TA - docs(vnv): add to testing plan	✓	290	Adjust functional testing criteria.
52	Peer Review - Enhance Network Failure Handling and Data Integrity Measures	✓	185	

2 Challenge Level and Extras

2.1 Challenge Level

[State the challenge level (advanced, general, basic) for your project. Your challenge level should exactly match what is included in your problem statement. This should be the challenge level agreed on between you and the course instructor. —TPLT]

2.2 Extras

[Summarize the extras (if any) that were tackled by this project. Extras can include usability testing, code walkthroughs, user documentation, formal proof, GenderMag personas, Design Thinking, etc. Extras should have already been

approved by the course instructor as included in your problem statement. —TPLT]

3 Design Iteration (LO11 (PrototypeIterate))

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

[Don't just say what you changed, say why you changed it. The needs of the client should be part of the explanation. For example, if you made changes in response to usability testing, explain what the testing found and what changes it led to. —TPLT]

4 Design Decisions (LO12)

[Reflect and justify your design decisions. How did limitations, assumptions, and constraints influence your decisions? Discuss each of these separately. —TPLT]

5 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]

6 Reflection on Project Management (LO24)

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

6.1 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]

6.2 What Went Well?

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

6.3 What Went Wrong?

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

6.4 What Would you Do Differently Next Time?

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

7 Reflection on Capstone

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

7.1 Which Courses Were Relevant

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

7.2 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]