Second Iteration

✎ **Edit**

Implement the first release of your project. This should expand and harden your MVP sufficiently to be usable. You must continue to support *continuous integration* for your codebase, with both pre-commit and post-commit, as explained for the **First Iteration**. If any part of the CI was incomplete or non-functional for the first iteration, fix it now. Also take into consideration any feedback from your IA mentor based on your first iteration written assignment and demo.

Revise your user stories to reflect what is now fully implemented. Expand each user story into a *use case*. Each use case should include at least title, actor(s), description, basic flow and alternate flows (when applicable). Focus on the basic flow vs. alternate flows, which should specify the step by step actions of the user (or external system using your product) and what your product does in response.. You may optionally include other use case elements such as preconditions, postconditions, etc., but this is not required.

For your test plan, explain the equivalence partitions and boundary conditions necessary to unit-test each of the major subroutines in your system (functions, procedures, methods, etc. excluding getters/setters and helpers), with references to your specific test case(s) addressing each equivalence partition and each boundary condition. Your test suite should include test cases from both valid and invalid equivalence partitions, and just below, at, and just above each boundary condition. State where your test suite resides in your github repository, but you do not need to copy the test code into this document.

Then describe how you measured the branch coverage achieved by your test suite. This should include adding a coverage tool to your post-commit CI process, with its reports added to a folder in your github repository. Remember that coverage should strive to achieve 100%, but probably won't; state what coverage you did achieve. Add test cases for loop initiation, continuation and termination even if your coverage tool does not handle loops (if your code has any loops).

Make sure to include a link to the github repository where your entire codebase resides. Your second implementation should match your use cases and test suite. **Do not include anything in the prose part of this assignment that is not actually evident in your github repository.**

One member of your team should submit a single file, preferably pdf. Your file should contain your team name and the names/unis of all team members, and may optionally include links to external resources. You may submit repeatedly until the deadline. Note that if

multiple team members submit, the most recent submission will override all previous submissions by the same or different team members.

Points 40

Submitting a file upload

File Types pdf, doc, docx, txt, xls, and xlsx

Due	For	Available from	Until
Nov 27, 2018	Everyone	Aug 15, 2018 at 12am	Nov 28, 2018 at 11:59pm

+ **Rubric**