

CSC 405 Capstone

Requirement Engineering Deliverable

Document Submission

Minimum requirements (more is fine):

- GitHub repo setup and everyone has their local Git repo setup to push/pull to/from the GitHub repo. For now, you can just put a readme file in there and use that to test access and modification ability of all team members (i.e. everyone should be able to see, modify and push changes to the readme file similar to how I did in class)
- Trello board set up and every team member added to it.
- The following should be submitted on Moodle in a separate PDF document:
 - A name for your team
 - A name for your project (can be a working title)
 - List of all team member names
 - A URL to your Trello board. Make sure I have permission to view it. My Trello email is "kcherr1@gmail.com".
 - A URL to your GitHub repo. Again make sure I have permission to view this. My github username is "kcherr1".
 - The name and preferred email address of your customer. Your customer can be a professor / subject matter expert you work with to develop your project. Your customer may also be one (or more) individuals who are selected from the group of "end users" your project is aimed at. You should keep in touch with your customer on a regular basis and solicit their input on product features, interface, etc. If the customer is a subject matter expert, he or she may even be able to help you find resources (e.g., data sources for a machine learning project) or provide guidance on appropriate solution.
 - At least 3 main "Features" of the project. Features are main objectives of the software that can be broken down into several user stories. Think of a "feature" as a large objective that contains many tasks to become completed. **You don't have to know what all of those "tasks" are just yet.**
 - **An outline of all work that can reasonably be accomplished** by your team during the 5 sprints (i.e. in 405 and 406). Take into account team size, team knowledge of the subject area, team knowledge of the language(s) and tool(s), highest priority items vs. nice-to-haves, etc. We will have between 10 to 11 total weeks of implementation (this includes polishing and bug fixing) before the final presentation in May 2021.
 - An outline of all extra work that can be done only if/when the core components are finished.
 - Think "under promise, over deliver". Keep this in mind when outlining the work that can reasonably be done vs. the extra work that is only considered if there is time.
- The following should be present in your Trello board
 - A column for 'Product Backlog', 'Sprint Backlog' and 'Done'
 - Some columns in between 'Sprint Backlog' and 'Done' that will govern your workflow (these may be changed as the project progresses).
 - Enough user stories in your Product Backlog for roughly two sprints worth of work. More will be added as the project progresses.
 - **User stories should be labelled by which "Feature" they pertain to** (use the color coded labels in Trello or another feature of Trello to denote this). A certain amount of backlog refinement is expected such that high priority items are above lower priority items.

- High priority stories should have some detail and work put into them so everyone understands them well. They should also have acceptance criteria defined for them. Remember that acceptance criteria can be refined more later on, but the goal is to have the acceptance criteria be very specific. If you want to have a blue bucket, what kind of blue. Giving an exact hex value (like 0x0000FF) is the level of detail needed to ensure you are doing the right thing. But, again, this level of detail can be added later. Acceptance criteria must be specific as they will drive test cases.
- The pointing of user stories can be delayed until sprint planning.

Presentation

Each of the 5 groups will have **15 minutes** (including setup-teardown time, no more than 3-5 minutes) to present its requirements engineering submission. **Every individual on a team should speak** (present some aspect of their team's project).

Presentations should include the following six components:

- A brief overview of the team's project (before going into the detail below)
- A summary of the "features" of the software system to be developed by the team
- Display your team's Trello board and briefly describe each of the user stories on the board
- Explain how your team intends to prioritize your stories
- Outline what your team expects to accomplish before the final presentation (in the Spring quarter) and the extra work to do if there is time
- Briefly describe the process your team employed to gather the project requirements

Rubric

Submission (meets the minimum requirements)	15 pts
Presentation (hits all points above)	5 pts

Total	20 pts