Deliverable #4 Report

Team #2 SQL Injectors

CSCC01H3 INTRODUCTION OF SOFTWARE ENGINEERING

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Sprint / Product Backlog, Burndown Chart, and Taskboard Snapshots

- This information can be found on the GitHub repository
- The Burndown Chart Snapshots can be found on the Trello board

Code inspection

- https://www.dropbox.com/s/ubjwd0ph5e3jcdt/CSCC01%20Code%20Inspection.mp4?dl=0
- Individual Code inspection reports can be found on the GitHub repository

Sprint Plan

- *Initial plan*

  The plan is the same as the previous iteration, each team member has planned 4 hours per week to work on the project. That makes a total of 40 developer hours for this two-week iteration. The chart below shows in detail how many hours each member could work on each day. The number in the bracket indicates the task that each team member is working on.

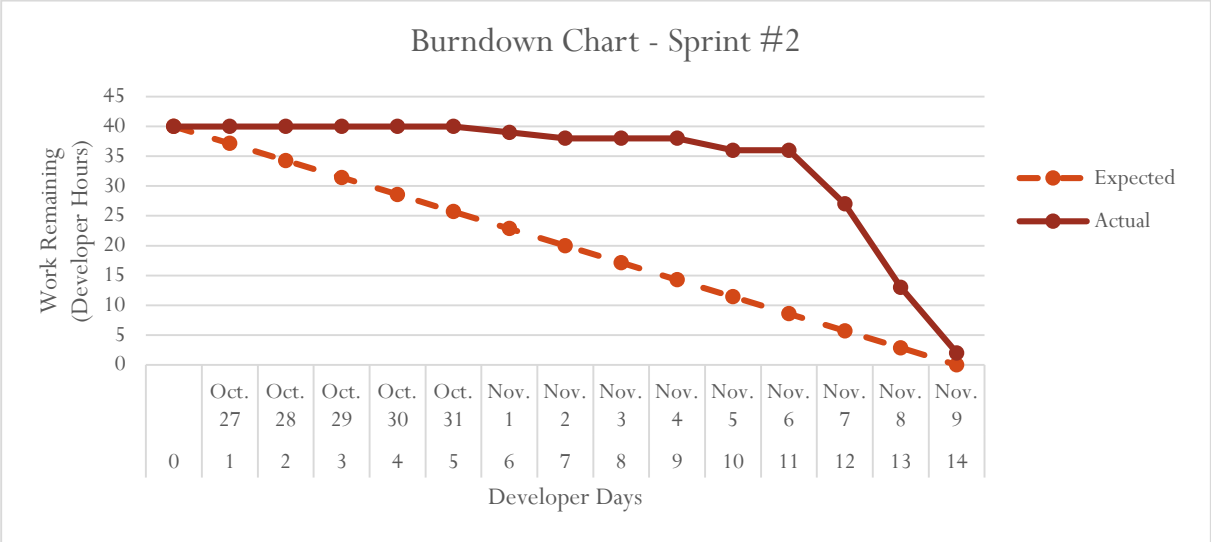
Date	Nadeem	Junaid	Andres	Minsoo	Alex	Total
	0	0	0	0	0	0
Oct. 27	0	0	0	1 (t7)	1 (t2)	2
Oct. 28	0	0	1 (t1)	0	1 (t7)	2
Oct. 29	0	0	0	0	0	0
Oct. 30	0	0	0	1 (t10)	0	1
Oct. 31	2 (t2)	2 (t6)	1 (t3)	0	1 (t9)	6
Nov. 1	2 (t3+t4)	2 (t6+t7)	2 (t4)	0	0	6
Nov. 2	0	0	0	2 (t10)	1 (t9)	3
Nov. 3	0	0	0	1 (t10)	0	1
Nov. 4	0	0	0	0	0	0
Nov. 5	0	0	0	1 (t13)	0	1
Nov. 6	0	0	0	0	0	0
Nov. 7	2 (t4+t8)	2 (t8+t9)	1 (t8)	1 (t13)	1 (t14)	7
Nov. 8	2 (t8)	2 (t10+t13)	2 (t8+t13)	0	1 (t14)	7
Nov. 9	0	0	1 (t13)	1 (t14)	2 (t14)	4

- ***Actual Logs of the plan***

  We were unable to follow this plan. This mainly due to the reason that our implementations had very unexpected bugs. And since the Zotero API documentation is not very descriptive, we had to take the time to Google around and read the Zotero source code to fix our bugs. On the other hand, Andres could not work on Oct. 28 and Minsoo could not work on Oct. 30. This caused us to complete 38 developer hours during this iteration instead of 40.

Date	Nadeem	Junaid	Andres	Minsoo	Alex	Total
	0	0	0	0	0	0
Oct. 27	0	0	0	0	0	0
Oct. 28	0	0	0	0	0	0
Oct. 29	0	0	0	0	0	0
Oct. 30	0	0	0	0	0	0
Oct. 31	0	0	0	0	0	0
Nov. 1	0	0	1	0	0	1
Nov. 2	0	0	0	1	0	1
Nov. 3	0	0	0	0	0	0
Nov. 4	0	0	0	0	0	0
Nov. 5	0	0	0	1	1	2
Nov. 6	0	0	0	0	0	0
Nov. 7	2	1	2	2	2	9
Nov. 8	4	4	2	1	3	14
Nov. 9	2	3	2	2	2	11

- ***Burndown Chart***



- ## *Current state of the project*

The current state of our project is slightly behind what we expected. However, we still have completed some important features and functionality during our 2 iterations. At the beginning of this iteration, we decided to finish the batch-editing feature, which is our **B01** and **B02** from our sprint backlog. The Taskboard snapshot in GitHub reflects this planning. We could not finish all of the tasks because we found the algorithm for editing tags to be harder than expected, we are still working on this feature as shown at the end of Trello taskboard snapshot. At beginning of the iteration, we did not need to make any changes on what user stories we were working on. At the middle of iteration, we had a meeting in BV Linux lab to talk about what we finished over the past week and what we are going to do for the second week of the iteration. During that meeting, we realized that most of our team members were busying studying and finishing assignments for other courses. We also discussed the main UI changes that were needed and planned our tasks for the second week of the iteration.

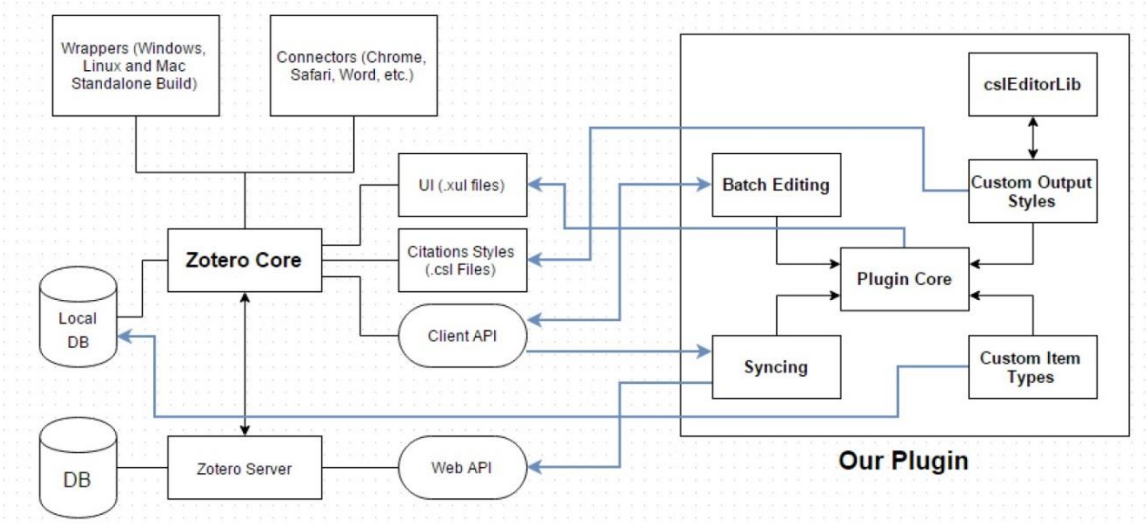
The largest problem we've have had so far in this iteration is the algorithm for editing tags in the backend, the problem was the editTags() function was very inefficient because edits all of the tags regardless of the fact their textbox was edited or not. We had several discussions on Facebook to come up with a solution. It took us extra hours to come up with a reasonable solution, hence, we did not finish that task entirely. Currently, this algorithm is implemented, and we expected it to be connected to the UI by the next iteration.

B01: As John, a grad student, I want to be able to select several tags with a specific tag and rename or delete that tag, so that I don't have to edit tags one by one.

B02: As John I want to be able to select several entries and add a tag to all of them, so that I can easily add tags to a group of related entries.

- ## *System design*

We followed exactly what we design our system for batch editing component, our `zoteroEXT.js` is our plugin core, `ui.xul` is the XUL markup for our plugin, and `ExtBatch.js` is our backend component for our batch editing.



The batch editing component has backend logic (`ExtBatch.js`) for removing, renaming, adding, editing, merging tags and moving data to/from the Zotero DB. The UI file (`ui.xul`) contains the window layout and loads information by calling functions from the plugin core (`zoteroEXT.js`).