Deliverable #4 Report

Team #2 SQL Injector

CSCC01H3 INTRODUCTION OF SOFTWARE ENGINEERING

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Sprint / Product Backlog, Burndown Chart, and Taskboard Snapshots

- This information can be found from GitHub repository
- For Burndown Chart Snapshots, these can be found on Trello board

Code inspection

- https://www.dropbox.com/s/ubjwd0ph5e3jcdt/CSCC01%20Code%20Inspection.mp4?dl=0 for our code inspection video
- Reports can be found in GitHub repository

Sprint Plan

- *Initial plan*

  Same as the previous iteration, each team member has planned 4 hours per week to work on the project. That makes the total of 40 developer hours for this two-week iteration. Chart shows below is the detail planning of our team could work on each day. Number in the bracket indicates the task that each team member should work on.

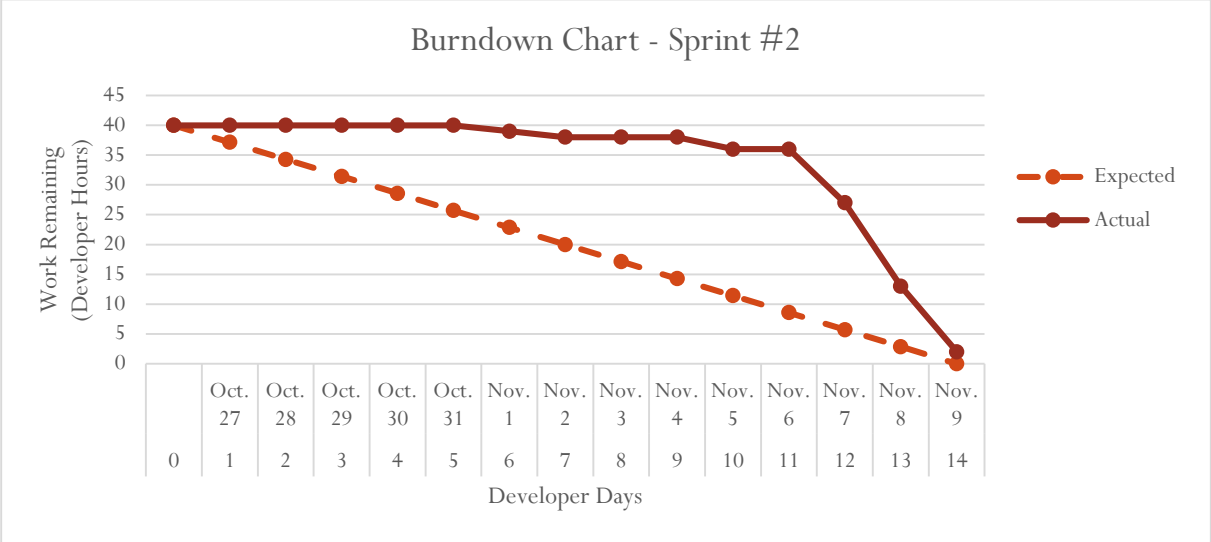
Date	Nadeem	Junaid	Andres	Minsoo	Alex	Total
	0	0	0	0	0	0
Oct. 27	0	0	0	1 (t7)	1 (t2)	2
Oct. 28	0	0	1 (t1)	0	1 (t7)	2
Oct. 29	0	0	0	0	0	0
Oct. 30	0	0	0	1 (t10)	0	1
Oct. 31	2 (t2)	2 (t6)	1 (t3)	0	1 (t9)	6
Nov. 1	2 (t3+t4)	2 (t6+t7)	2 (t4)	0	0	6
Nov. 2	0	0	0	2 (t10)	1 (t9)	3
Nov. 3	0	0	0	1 (t10)	0	1
Nov. 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 have unexpected bugs, since Zotero API documentation is not well descriptive, then we have to take the time to Google online and read the source code of Zotero core to fix our bugs. This wastes a huge amount of time. On the other hand, Andres could not work on Oct. 28 and Minsoo could not work on Oct. 30. This made us to complete 38 developer hours in this iteration instead of 40. The chart of daily log will show below:

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 behind than we expected. However, we still have some important feature and functionality done during our 2 iterations. At the beginning of this iteration, we decided we will finish the batch-editing feature, which is our **B01** and **B02** from our sprint backlog. Taskboard snapshot in GitHub will reflect what we planned. We would not finish all the task because the algorithm for editing tags is harder than we expected, until now, we still working on this feature as shown at the end of Trello taskboard snapshot. At beginning of the iteration, we do not need to make any changes on what user story we working on. At the middle of iteration, we had a meeting in BV Linux lab on Friday, conclude what we finish in the past week and what we are going to do for the second week of the iteration. During that meeting, we know most of our team members were busying reviewing course material and finishing assignment, so that we could not do our work on time. Then we discuss our current tasks and planned our tasks for the second week of the iteration.

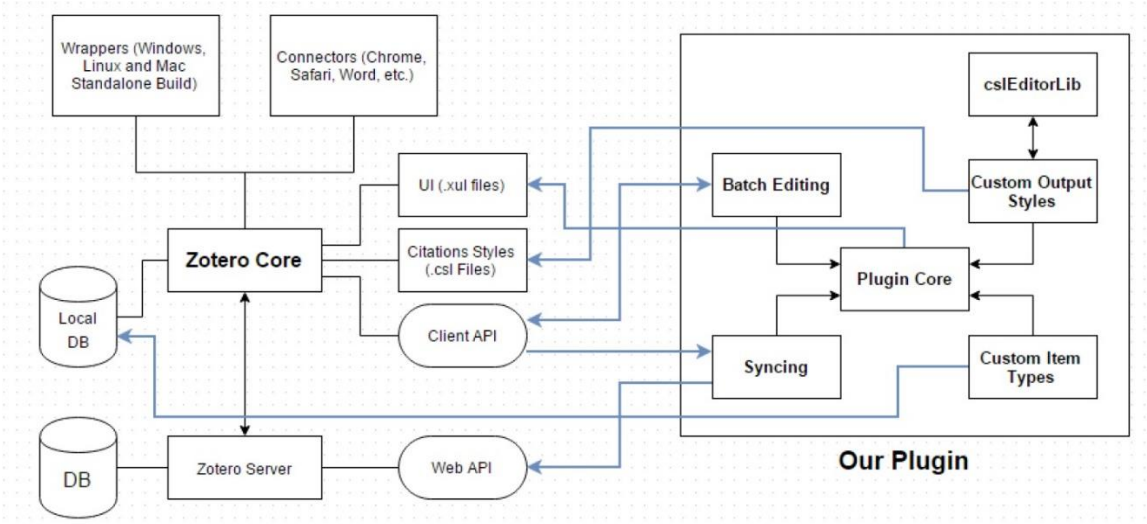
The largest problem we have so far in this iteration is the algorithm for editing tag in the backend, the problem is calling loadtags function is not very inefficient every time we edit on tag, also, after reloading tags, all unsaved tag will be lost. We discussed on Facebook to come up the solution. It took us extra hours to have a reasonable solution, hence, we did not finish all task as we planned. Currently, this algorithm is implementing, we expected it can be finished in 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 plug-in core, `ui.xul` is our main window for our plug-in, and `ExtBatch.js` is our backend component for our batch editing. As the following diagram is our system design, it might be modified it for other components in our plug-in later since we will have deeper understanding for Zotero systems.



The batch editing component have a backend logic (`ExtBatch.js`) for removing, renaming, adding, editing, merging tags and pulling data in Zotero system and Zotero database. The UI file (`ui.xul`) contains all layout and load all user requirements and information by calling function in the plug-in core (`zoteroEXT.js`).