



Precision Development

DELIVERABLE #6

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1 Current State of Project

As of December 3rd, 2015 our team has implemented the following major features: batch tag editing, adding custom fields, coupling documents, citation editor (CSL) have been completed, however, testing is still in progress. The Batch Editing feature supports adding, deleting, modifying and merging of tags for the user's entire library, collection, or a list of items that the user chooses to add to the batch editing queue. Adding custom fields is done by item type, the user provides an item type (i.e. book), a field type (text, number, date), and field name, the custom field is then added to all items of the specified type. The coupling documents feature will link a 'master' document to one or several 'slave' documents in group libraries; any changes made to the main fields in master document will propagate to the slave documents. Note that for security and design reasons notes and custom fields are not able to be coupled. The citation editor currently allows the user to create custom citation formats with an easy to use GUI and it also provides a live preview as it is being created.

In addition all of the above features are integrated seamlessly into the Zotero Firefox application as a plugin as well as the Zotero standalone client. We designed the GUI to mimic Zotero's native GUI so that the users will already have a good feel of how the tools work. Installation of our plugin is as easy as installing an add-on in Firefox (from our provided xpi file). We also have a really helpful user-documentation at ZotPie.readthedocs.org (still in progress) in addition to a developer documentation for our plugin (also on ZotPie.readthedocs.org). Most importantly, as per client specifications, all of this can be done offline! We have also not modified any of Zotero's source code, which means that Zotero can safely be updated without breaking our plugin. A standalone python batch editor and backup tool for Zotero is also available for users and developers because we switched from python to JavaScript, however, they require internet connectivity to be used.

Story ID's 6, 8, 9, 10, 11, and 12 were dropped due to lack of time.

****Note: There were no changes done to the user story content/personas.**

2 Product Backlog

Product Backlog				
User Story ID	User Story	Value	Risk	Estimated Cost
1	As Anne a professor, I want to be able to batch select tags so that I can perform deletes/renames/and merges on all of them at once.	3	Med High	20 30 Dev Hours
2	As Anne a professor, I want the option to couple documents so changes made to one instance of a record will be reflected in the copies.	4	Med High	20 30 Dev Hours
3	As Britney a student, I want to be able to add more fields to an existing record type so that I can classify the record better.	4	Med	40 Dev Hours
4	As Anne a professor, I want an easy-to-use UI for creating custom bibliography styles so that I don't have to fiddle with XML files.	4	High	20 30 Dev Hours

5	As Britney a student, I want the ability to work offline so I can work while commuting.	1	High	100 Dev Hours
6	As Anne a professor, I want to have a log of the changes I've made so that I can keep track of my progress.	2	Med	30 Dev Hours
7	As Britney a student, I want to be able to export custom bibliography template styles so that I can share it with others.	2	Low	40 Dev Hours
8	As Britney a student, I wish to import my records from other bibliographic tools that I have previously used.	1	High	30 Dev Hours
9	As Anne a professor, I want a notification feature so that I can come back to records that are incomplete.	3	Med	30 Dev Hours
10	As Anne a professor, I'd liked to be able to attach a photo to my records so that I can visually identify a record by the book cover.	1	Low	20 Dev Hours

11	As Britney a student, I would like a feature to automatically create and update a local backup of my records so that I don't need to worry about losing my work.	3	Low	10 Dev Hours
12	As Anne a professor, I'd like to have email integration so that I can share my work with my colleagues without opening another email client.	1	Med	30 Dev Hours

3 Sprint #3

3.1 Sprint Backlog

Our sprint backlog is located here:

- User Stories/Tasks that were swapped out are colored in red
- User Stories/Tasks that were swapped in are colored in green

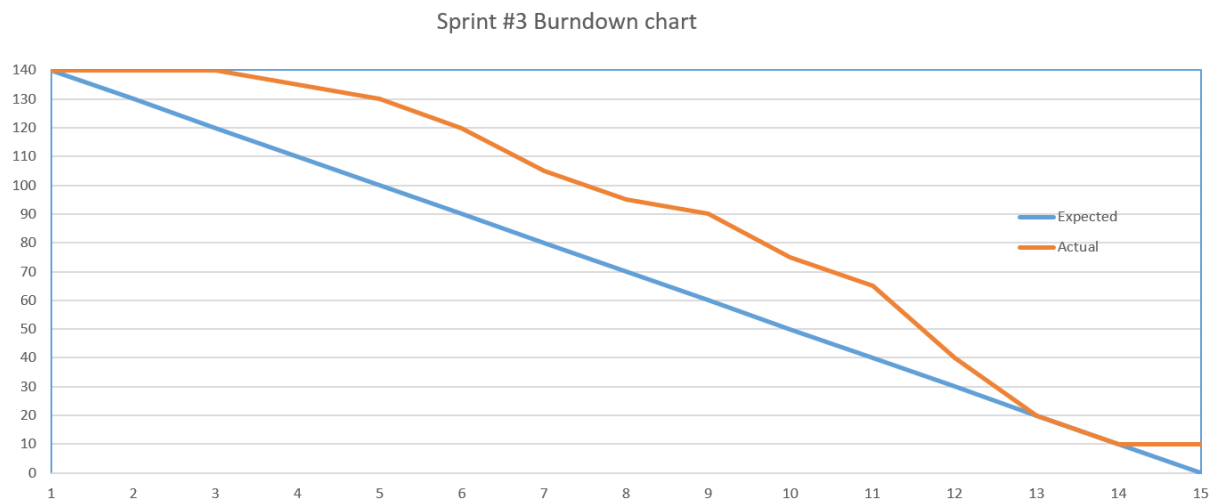
<https://docs.google.com/spreadsheets/d/1x4ZO0IsaXkctc8IxdIhvAAT5QEFSecOz8eK0PieLRWok/edit?pli=1#gid=1883449992&vpid=A1>

3.2 Sprint Task Board/Plan

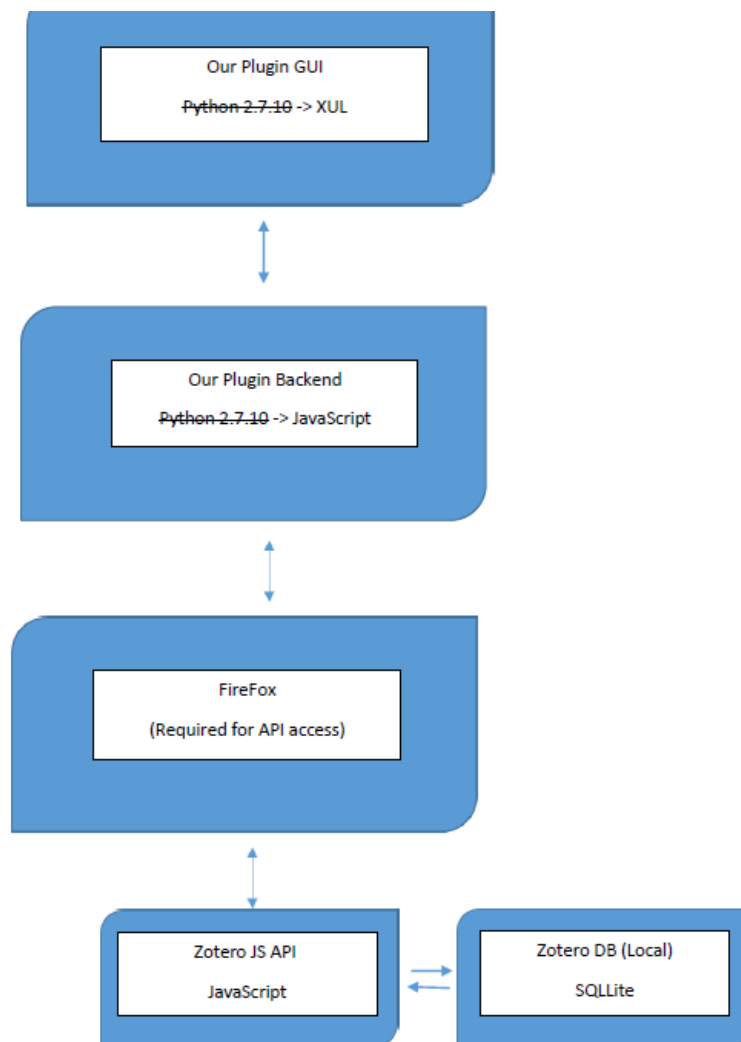
Our task board is located here (snapshots are located under “INSTRUCTIONS”):

<https://trello.com/b/KeNPWB3W/sprint-3-task-board-precision-development>

3.3 Sprint Burndown Chart



4 System Design Diagram



System Design Explanation:

- Our Plugin GUI now uses XUL files instead of Python 2.7.10, just as before the user will interact with this part of our plugin to perform tasks.
- Our Plugin Backend has changed from Python 2.7.10 to JavaScript to better interact with the JavaScript API provided by Zotero. It takes and processes input from the GUI and through firefox interacts with the JavaScript API.
- FireFox, needed to expose Zotero Internals (i.e. the JavaScript API) to our backend for use.

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- Our Plugin now uses the JavaScript API instead of the PyZotero API, this has the advantage of making changes locally. The Zotero Online DB will be updated with any changes made offline, or allow the user resolve any conflicts between the offline DB and the Online DB in a similar way to git or other version control systems (this is a built in Zotero function).
 - The Local Zotero database (DB) is a SQLite database that Zotero Standalone/Firefox/Chrome uses to store all user data (through the JS API).

5 Test Plan

Our test plan is in a separate file located in the same directory with the file name: ZotPie Test Plan.pdf.