Open Exoplanet Catalogue

Deliverable 4: Sprint 2 Report

By: Team 5

OEC Table of Contents

Sprint Plan

Sprint 2
Duration: October 24 to October 31
Priority Scale (Low 1 - 5 High)
Cost in Story Points (1 Story Point = 1 Developer Hour)

1.1 Pull Request Notification
User Story ID: 2.3
Priority: 5
Cost: 3
As Prof. Cooper I would like to be notified via pull requests if an update has been generated (new XML system page created) from monitored catalogues so that I can choose whether or not to update the existing catalogue.

1.1.1 Set up GitHub account for testing pull request notifications.
Task ID: 2.3.1
Priority: 5
Cost: 0.5
Completion Time: October 26, 2016
Assigned To: Ian Ferguson

1.1.2 Issue single pull request for new XML file, test sufficiency of notification and easy of merge.
Task ID: 2.3.2
Priority: 5
Cost: 0.5
Completion Time: October 30, 2016
Assigned To: Jubin Patel

1.1.3 Issue single pull request for single updated existing XML file, test sufficiency of notification and easy of merge.
Task ID: 2.3.3`
Priority: 5
Cost: 0.5
Completion Time: October 30, 2016
Assigned To: Jubin Patel

1.1.4 Issue multiple pull requests each for a single new or updated XML file, test ease of use, sufficiency of notifications, ease of merging, and effect of changes on test OEC.
Task ID: 2.3.4

Priority: 5
Cost: 0.5
Completion Time: October 30, 2016
Assigned To: Lucy Xing

1.1.5 Review pull request notification strategy and effectiveness after testing, suggest improvements or alternatives if faults are found. If pull requests are insufficient offer alternative methods to team and suggest strongest candidate to client for approval. If pull requests are found insufficient re-plan will be required.
Task ID: 2.3.5
Priority: 5
Cost: 1
Completion Time: October 30, 2016
Assigned To: Ahsan Zia, Ian Ferguson, Jubin Patel, Marhababanu Chariwala, Lucy Xing

1.2 Merge Updates and Changes via Pull on Git
User Story ID: 2.9
Priority: 5
Cost: 15
As Prof. Cooper, I want to be able to merge the updates/changes into the OEC via a pull request on GitHub. The program should generate a separate pull request for each XML system page generated

1.2.1 Research GitHub API python libraries and select most appropriate one for project.
Task ID: 2.9.1
Priority: **5**
Cost: 2
Completion Time: October 24, 2016
Assigned To: Marhababanu Chariwala

1.2.2 Research and develop algorithm for merging updates/changes through pull requests.
Task ID: 2.9.2
Priority: 5
Cost: 2
Completion Time: October 27, 2016
Assigned To: Ian Ferguson

1.2.3 Implement data structure to track every new branch that is created.

Task ID: 2.9.3
Priority: 5
Cost: 1
Completion Time: October 28, 2016
Assigned To: Lucy Xing

1.2.4 Implement ability to create a new branch for a new/updated XML file. The function should add/commit XML file to branch when called.
Task ID: 2.9.4
Priority: 5
Cost: 2
Completion Time: October 29, 2016
Assigned To: Ahsan Zia

1.2.5 Implement ability to checkout an existing branch to update XML file that has already been created/updated. (i.e. to add a second planet to a new system XML file). The function should add/commit XML file to branch when called.
Task ID: 2.9.5
Priority: 5
Cost: 2
Completion Time: October 29, 2016
Assigned To: Marhababanu Chariwala

1.2.6 Implement ability to create a new pull request for a single branch. Once a pull request is generated the branch should be deleted/removed from any data structures.
Task ID: 2.9.6
Priority: 5
Cost: 3
Completion Time: October 30, 2016
Assigned To: Ian Ferguson

1.2.7 Implement ability to create a pull request for every new branch generated on a run of the OEC sync.
Task ID: 2.9.7
Priority: 5
Cost: 2
Completion Time: October 30, 2016
Assigned To: Ian Ferguson

1.2.8 Test that a correct pull request is generated for each branch created and that the branch is subsequently removed properly.
Task ID: 2.9.8
Priority: 5
Cost: 1
Completion Time: October 30, 2016
Assigned To: Jubin Patel

1.2.9 Implement ability to create a new pull request for a single branch. Once a pull request is generated the branch should be deleted/removed from any data structures.
Task ID: 2.9.9
Priority: 5
Cost: 3
Completion Time: October 30, 2016
Assigned To: Ian Ferguson

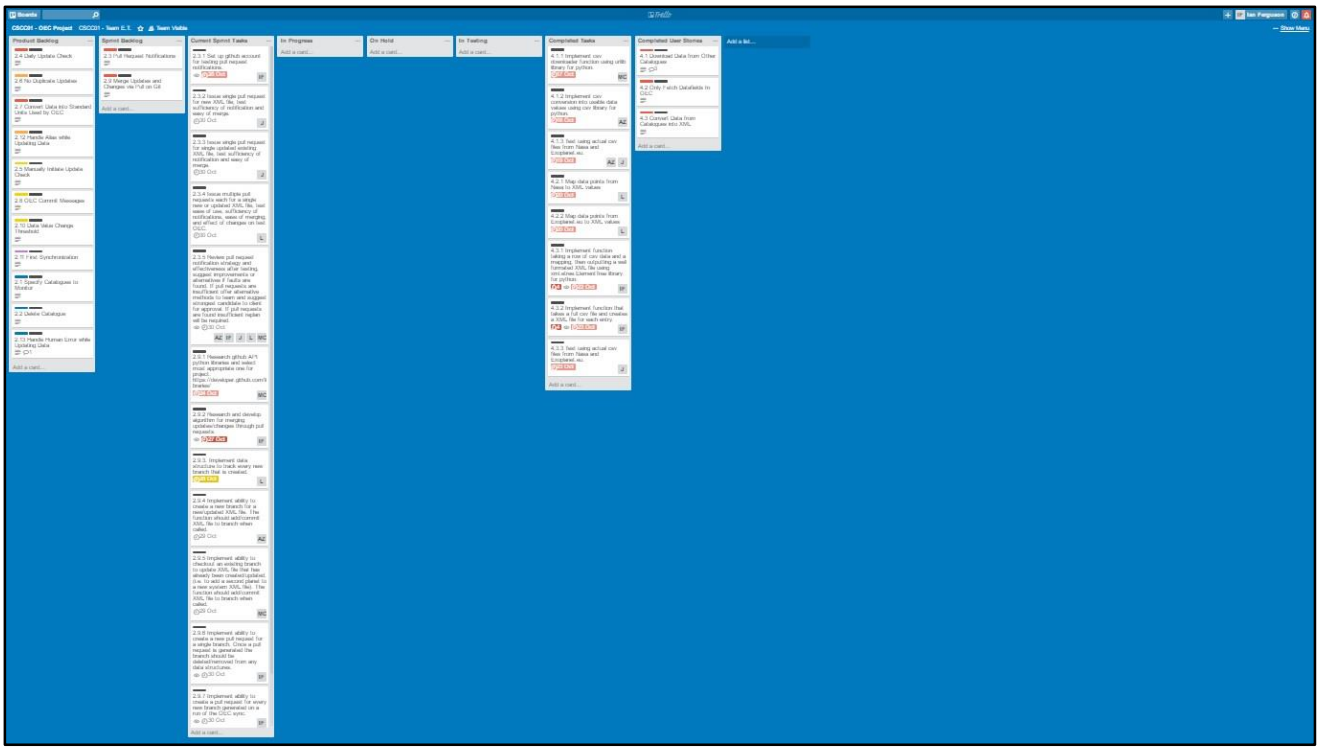
Sprint Overview

2.1 What was your estimated project velocity?
Our team's estimated project velocity was 18 story points (1 story point == 1 developer hour).

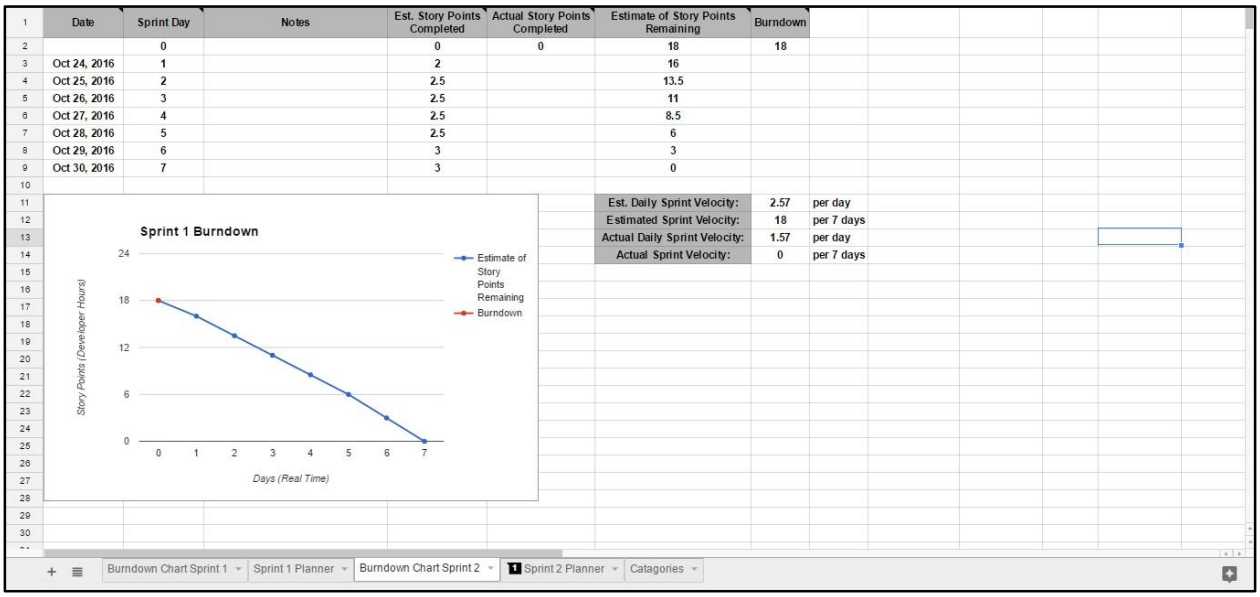
2.2 What was your actual project velocity?
Our team's actual project velocity was 8.5 story points (1 story point == 1 developer hour).

2.3 Did you follow your plan(s) exactly, or did you have to re-plan at some point (and why)?
For this sprint, our team was behind compared to the planned progress because our team encountered technical difficulties in implementing the section of the code responsible for git pull requests. Due to this, many tasks were on hold at the end of this sprint.

Snapshots



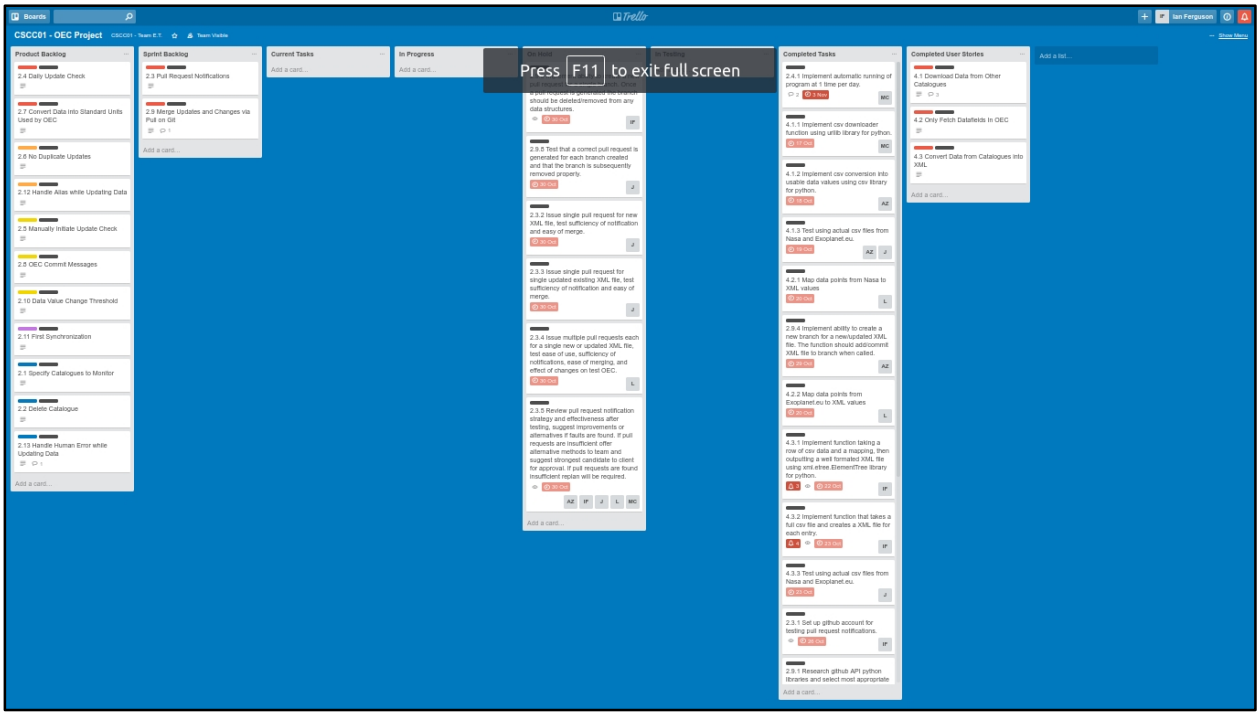
3.1 Trello Task Board Zoomed Out start of Sprint 2 (Oct 24 – 30): 2nd column shows sprint backlog with user stories. 3rd column tasks created from the sprint backlog.



Date	Sprint Day	Notes	Est. Story Points Completed	Actual Story Points Completed	Estimate of Story Points Remaining	Burndown
	0		0	0	18	18
Oct 24, 2016	1		2		16	
Oct 25, 2016	2		2.5		13.5	
Oct 26, 2016	3		2.5		11	
Oct 27, 2016	4		2.5		8.5	
Oct 28, 2016	5		2.5		6	
Oct 29, 2016	6		3		3	
Oct 30, 2016	7		3		0	

Est. Daily Sprint Velocity:	2.57	per day
Estimated Sprint Velocity:	18	per 7 days
Actual Daily Sprint Velocity:	1.57	per day
Actual Sprint Velocity:	0	per 7 days

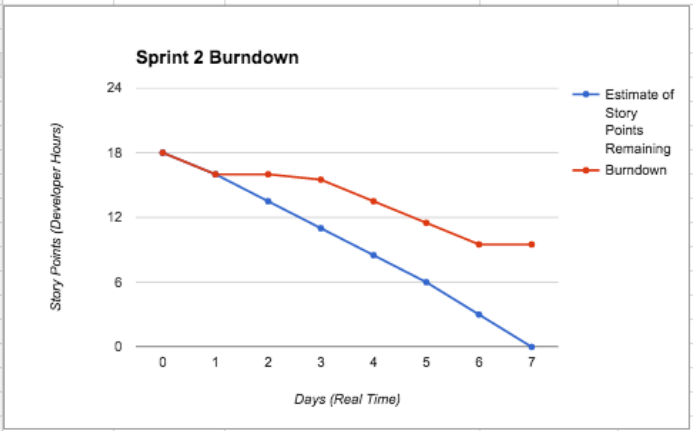
3.2 Burndown chart in the beginning of Sprint 2 (Oct 24-30).



3.3 Trello Task Board Zoomed Out view at the End of Sprint 2 (Oct 24 – 30). 5th column shows the tasks that were on hold because of the Git pull request issue.

	Sprint Day	Notes	Est. Story Points Completed	Actual Story Points Completed	Estimate of Story Points Remaining	Burndown
	0		0	0	18	18
Oct 24, 2016	1		2	2	16	16
Oct 25, 2016	2		2.5	0	13.5	16
Oct 26, 2016	3		2.5	0.5	11	15.5
Oct 27, 2016	4		2.5	2	8.5	13.5
Oct 28, 2016	5	Original Pull request stratagy does not work. Pull request implementation is currently on hold until solution is found. Pull requests moved to sprint 3.	2.5	2	6	11.5
Oct 29, 2016	6		3	2	3	9.5
Oct 30, 2016	7	Most sub functions complete but cannot test until pull function issue is resolved, as result estimated story points comleted have taken a hit.	3	0	0	9.5

Est. Daily Sprint Velocity:	2.57	per day
Estimated Sprint Velocity:	18	per 7 days
Actual Daily Sprint Velocity:	1.21	per day
Actual Sprint Velocity:	8.5	per 7 days



3.4 Burndown chart at the end of Sprint 2 (Oct 24-30).