TEAM SIERRA

DELIVERABLE 3

Product Backlog, Release Plan and Sprint Plan

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Questions

- **What tools, if any, will you use for your task board?**
  We will be using Zenhub to manage our task board.
  https://www.zenhub.com/

- **What tools, if any, will you use for your burn-down chart?**
  We will be using Zenhub again for our burn-down chart.
  https://www.zenhub.com/

- **Who will maintain the burn-down chart? How?**
  Zenhub will maintain the chart for us, but Harshil Patel will be monitoring it every day to make sure it is updated.

- **What is every team member's role?**
  Venkat Korapaty: Design lead (+Maintaining repositories and branches)
  Muneeb Khan: Proofreader, Tester, Developer, Meeting organizer
  Amine Benaicha: Expert on Python, Developer
  Gisho Pushaparajah: Expert on Python, Developer, Tester
  Harshil Patel: Expert on C, Developer, Meeting organizer

- **What tools will you use for communication?**
  We will be using Facebook messenger and Slack chat to keep in constant touch with each other, including our TA if we ever have questions.

- **When do you plan to meet in person?**
  We have decided that meeting on Friday after the tutorial is the best time for every team member to get together and have a team meeting.

- **How will you use your repository on GitHub?**
  We will be using our repository to send each other our completed tasks so that every team member can review it. We will also be using Zenhub(which is an extension to github) for our burndown charts and task board.

- **Which machines will be used for development by each team member?**
  Each of us on the team owns a Windows Laptop, so it will be our primary system. Along with that, we will also be using the IC 402 Lab computers which are all Linux. These two systems are what we will be using.

Updated User Stories

Note: 1 story point is 1 developer hour.

John

1) I John, a researcher, want the program to extract information about exoplanets and their systems from the other catalogues (NASA and exoplant.eu) and convert them into the structure of the OEC so they can be added to the OEC.

Cost: 8 points | **Priority:** High

2) I john, a researcher, want the program to determine if an exoplanet/system is new and needs to be added or already exists and can be updated/merged in the OEC.

Cost: 10 points | **Priority:** High

3) I John, a researcher, want to be able to manually update the catalogue by running the program through the command line, by calling a command on a terminal to initiate the updating/merging process.

Cost: 6 points | **Priority:** High

4) I John, a researcher, want to be shown all new additions and changes made to pre-existing entries in the OEC when manually merging with other catalogues.
   The planets/systems that were added should be listed, as well as the old and new values for any field/value of a pre-existing planet/system that was updated.

Cost: 5 points | **Priority:** Medium

5) I John, a researcher, want to be able to resolve individual conflicts when merging, by being shown the two versions and being prompted (in the terminal) to choose which version of the conflict to merge into the OEC.

Cost: 6 points | **Priority:** High

6) I John, a researcher, want to be able to configure how often (in days) the program runs automatically to attempt to merge/update the OEC.

Cost: 3 points | **Priority:** Low

7) I John, a researcher, want to be notified by email of conflicts when an automatic merge occurs, so I can manually go in and choose which conflicts to merge.

Cost: 4 points | **Priority:** medium

8) I John, a researcher, want to get a report by email after an automatic merge, containing the changes and additions made to the OEC. It should list all the planets and their systems that were added and updated. It should also list what was changed for planets/systems that were updated.

Cost: 4 points | **Priority:** Low

9) I John, a researcher, want the git repository to be updated with a successful merged catalogue, by pushing the updated catalogue onto the repo, so that I have a log of all merges/changes made to the OEC.

Cost: 6 points | **Priority:** Low

10) I John, a researcher, want the new changes when merging to match the units and format of the OEC.

Cost: 8 points | **Priority:** Medium

Alice

1) I Alice, a professor, want the application to regularly run automatically so that the catalogue can stay up to date.

Cost: 5 points | **Priority:** Low

2) I Alice, a professor, want the merge to automatically solve any conflicts and apply the changes without my input by either choosing my conflict or their conflict for every conflict.

Cost: 5 points | **Priority:** Low

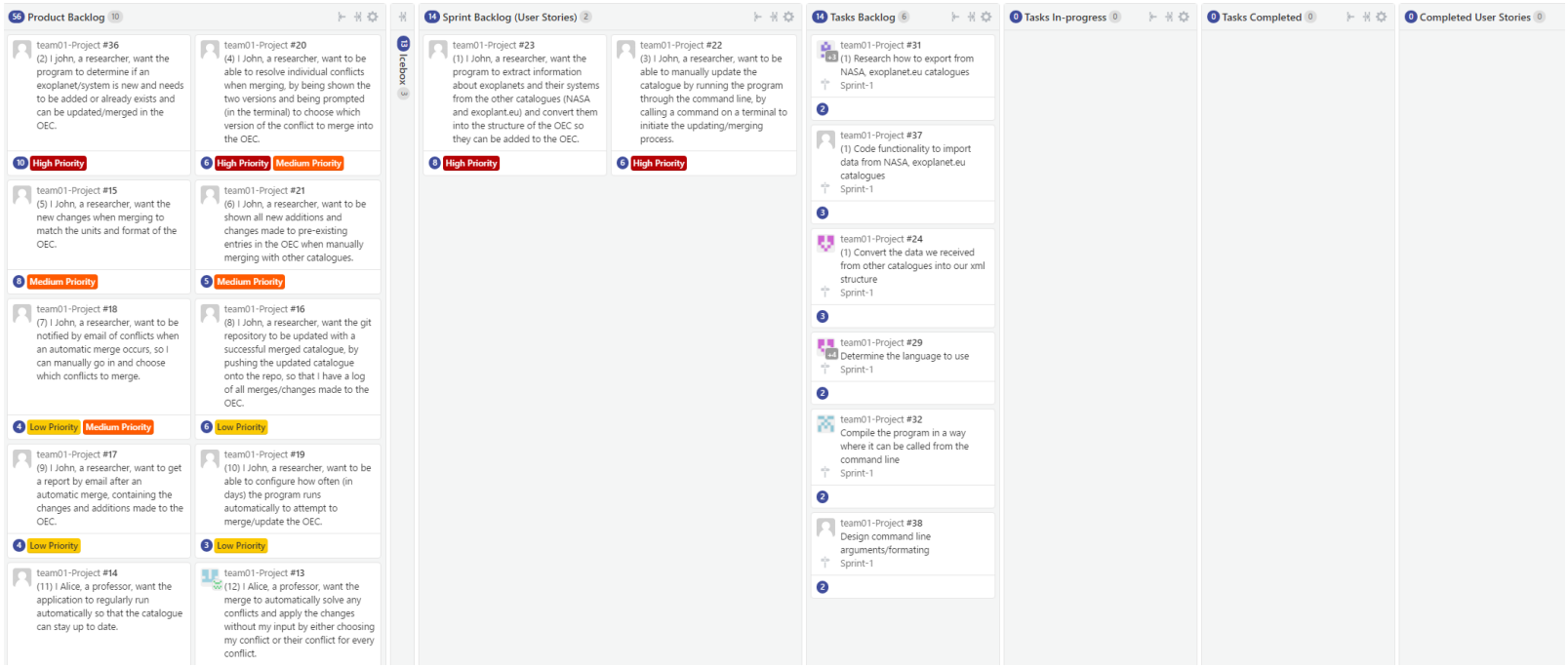
Release Plan

- Each story point represents 1 developer hour
- Each sprint will be 1 week, from Monday to Sunday
    - Sprint 1 (Oct 17th – Oct 23rd): John user stories 1, 3
    - Sprint 2 (Oct 24th – Oct 30th): John user stories 2, 5
    - Sprint 3 (Oct 31st – Nov 06th): John user stories 4, 10
    - Sprint 4 (Nov 7th – Nov 13th): John user stories 7, 9
    - Sprint 5 (Nov 14th – Nov 20th): John user stories 8, 6
    - Sprint 6 (Nov 21st – Nov 27th): Alice user stories 1, 2

Sprint 1 plan

User Stories	Task	Day 1	Day 2	Day 3	Day 4	Day 5
I John, a researcher, want the program to extract information about exoplanets and their systems from the other catalogues (NASA and exoplant.eu) and convert them into the structure of the OEC so they can be added to the OEC.	Research how to export from NASA exoplanet archive and exoplanet.eu catalogues. (Muneeb)	2				
	Code functionality to import data from NASA exoplanet archive and exoplanet.eu (Amine)		3			
	Convert data received from other catalogues into our xml structure. (Harshil)			3		
I John, a researcher, want to be able to manually update the catalogue by running the program through the command line, by calling a command on a terminal to initiate the updating/merging process.	Determine languages to be used (Venkat)	2				
	Research how to compile program into a command that can be executed (Amine)			1	2	
	Design command line arguments/formatting (Gisho)				2	

Task Board



Burndown Chart

Sprint-1

Edit Milestone | Change Milestone

Labels | Hide Pull Requests | Tasks Completed

Start: **Oct 17, 2016** Edit | Due: **Oct 23, 2016** Edit

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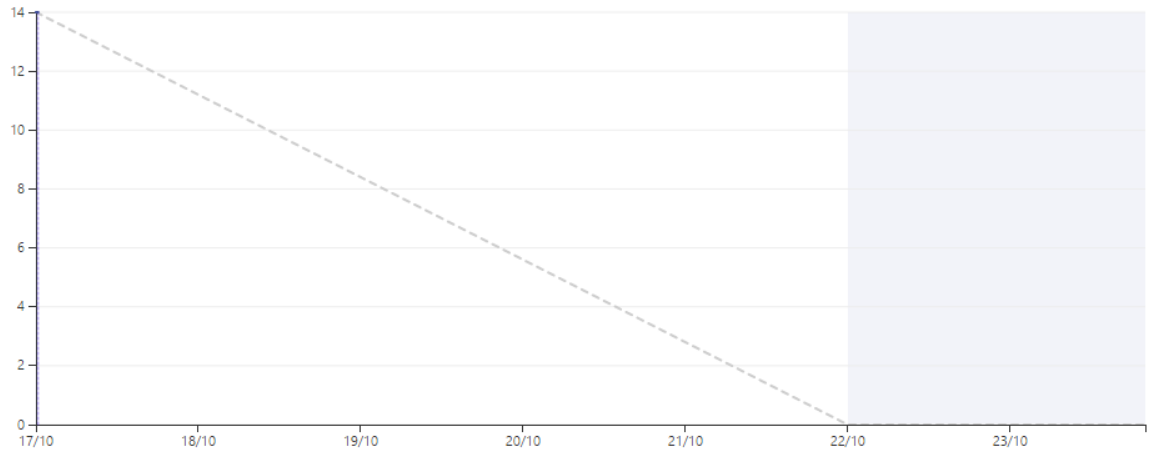

14	0	6	0
Total Story Points	Completed Story Points	Total Issues	Unestimated Issues

Sprint-1

Repository	Issues	Story Points
team01-Project	#37 **(1) Code functionality to import data from NASA, exoplanet.eu catalogues**	3
team01-Project	#24 **(1) Convert the data we received from other catalogues into our xml structure**	3
team01-Project	#38 **Design command line arguments/formating**	2
team01-Project	#32 **Compile the program in a way where it can be called from the command line**	2
team01-Project	#31 **(1) Research how to export from NASA, exoplanet.eu catalogues**	2
team01-Project	#29 **Determine the language to use**	2