

Sprint Retrospective, Iteration # 3

Context Project: Programming Life

Group: desoxyribonucleinezuur

User Story #	Task #	Task Done by	Estimated Effort per Task (in hours)	Actual Effort per Task (in hours)	Done (Y / N)	Notes
As a developer, I wan't to reduce my technical debt. When issues and feedback from last sprint and the customer meeting are given. I want to do something with this.	Make a seperate window for the console	Yannick	3	3	Y	The console still needs to be run on a seperate thread
	Implement the open recent functionality	Yannick	2	4	Y	
	Complete panning and zooming	Yannick	3	0	N	Not done, because the new datastructure was a bottleneck for this feature
	Give gfa file as argument in command prompt	Iwan	1	0	N	Priority D task, files can now easily be opened with the open recent function
As a user, I want to be able to store bookmarks of visited points, As center and radius, Where center is the genome and its location, And radius is the amount of links followed from each side of the center node.	Make the option to create a bookmark	Martijn, Iwan	5	18	y	This took a lot longer than expected. Read more in the main problems. Also building the GUI with the bookmark functionality itself took a lot longer since we had to make it not easy to break.
	Store and load bookmarks from disc	Martijn, Iwan	5	12	Y	Took longer due to first storing with json and then switching to xml Iwan:2 hours
As a user, I want to be be able visualize a subgraph, By giving a center node and radius of up to 500	Update the GUI to more intuitively allow the user to search through the graph	Martijn, Yannick	3	0	N	This functionality depends on the datastructure, which took a long time to update. We were unable to work on it before that
	Draw from a center root node both ways	Martijn	8	0	N	Once again this functionality relies on the datastructure
As a user, I want to be able to load and store, The Human2, Tomato, and 328TB files.	Store metadata about nodes	Ivo	5	2	N	These tasks were not seperated very well, which means that they overlap in some areas. This means that the times for these tasks is a bit inaccurate. Next sprint, we will make sure to create better seperated tasks. For this time: the 2 hours are both for parsing genomes. This took 2 hours in total. building a cache was about rewriting the datastructures and fighting mapdb to work. This took about 20 hours
	Change the parser to also parse the genomes and store these with sequence on the disk.	Toine	3	2	N	
	Build a way to cache to increase the performance of everything but the first time loading.	Toine, Ivo	13	30	Y	
Misc	Make project skills assignment 1	Everyone	15	15	Y	
	Static analysis tools: Sonar	Ivo	1	0	N	Datastructure was far more important
	Final Final product planning	Iwan	1	1	Y	
	Went through pull request of last week.	Iwan	2	2	Y	This was because we had a unreviewed pull request last week.
	Attend customer meeting of other groups.	Iwan	1,5	1,5	Y	
	User Instructions	Iwan	2	2	Y	
	Fix the errors in the GUI test and Travis	Yannick, Iwan	4	13	Y	Read more in the main problems encountered section.
	Update the GUI and controllers to assist others	Yannick	2	3	Y	
	More useful GUI error messages	Iwan	3	3	Y	I have spent around 4 hours to get the GUI tests working which did not end up happening.
	Misc. time sinks (code review, travis)	Everyone	10	10	Y	

Main Problems Encountered

Local and Travis CI guittest errors

Description: In according to providing well written tests Yannick wrote test end-to-end tests for the GUI. Unfortunately Travis CI is unable to process these tests. About 5 hours were spend on trying to fix the errors in Travis by Yannick, and also 4 by Iwan. The local errors and further expanding the GUI tests took 4 errors by Yannick

Solution: This test file is now excluded from the files Travis will process and test

A few of the tasks had a dependency on finishing the data structure

Particularly the vidualization of the graph. This meant that we could not properly work on those before this was finished. But it was finished late in the sprint, so some of them could not be implemented

Next time, we will make sure that we finish major tasks with lots of dependencies early on in the sprint, or, preferably, finish it in the sprint before.

Bookmark Javafx error						
What ended up happening was that we created a controller which had an init method that got called immediately. This init needed a graph to work. But we used .setGraph a bit later in the the method. This meant that the fxml window and controller threw an error. We initially thought that the fxml file was wrong or the way we build the controller but after a long time we realised it was the graph that was null. We fixed this by not automatically calling the init tableview but later calling in manually. This solved the issue but it took a lot of time to find. Finding and fixing this took about 8 hours of combined time.						