

Retrospective for Sprint 3

User Story	Task	Member responsible	Task assigned to	Estimated effort per task (in time units)	Actual effort per task (h)	Done	Notes
As a user, I want to click on edges to see their information	Set up k-d tree for keeping track of location of nodes and edges	Casper	Casper	8	7	Yes	
	Handle click events in graph to find related nodes/edges	Joel	Joel	2	1	Yes	(Done by Casper)
As a user, I want to be able to load gzip files	Add loading of gzip files	Felix	Felix	2	0	No	
As a user, I want to be able to give the filepath via the command line when starting the application	Allow passing gfa file path through the command line	Niels	Niels	2	2	Yes	
As a user, I want to bookmark a position in the sequence graph	Set up persistent storage	Georgios	Georgios	5	8	Yes	
	Store bookmarks	Georgios	Georgios	2	1	No	The model has been defined
	Load bookmarks	Georgios	Joel, Georgios	3	0	No	
As a user, I want to navigate through the alignment graph in different genome coordinate systems	Set up persistent storage	Georgios	Georgios	5	5	Yes	This task also belonged to the above feature, but is included here, as well (for completeness)
	Add center point queries	Niels	Georgios, Niels	5	5	Yes	(Done by Joel)
As a user, when I click on a node, I want to see node information in the GUI	Create view for displaying node metadata, and bind this to the selected node GUI	Joel	Joel	2	2	Yes	
As a user, I want the file open dialogue to open in the most recent location	Store most recent directory of FileChooser, and use this when starting up the filechooser	Joel	Joel	1	1	Yes	
As a user, I want the graph to be layed out more beautifully	Remove FAFOSP-Y bumps	Felix	Felix	8	0	No	
	Fix FAFOSP-X	Felix	Felix	5	2	Yes	

As a debugger, I want to be able to start the application in debug mode and see the console in a separate window	Make console window a separate window	Niels	Niels	2	5	Yes	Longer because of added features
As a user, I want the application to use the newly designed datastructure	Add sequence lengths to the data structure	Casper	Casper	2	2	Yes	(Joel has done this)
	Add sentinel nodes to the data structure	Casper	Casper	3	3	Yes	
	Port the iterator to the new data structure	Felix	Felix	3	5	Yes	
	Port FAFOSP to the new data structure	Felix	Felix	3	13	Yes	These tasks took longer than we anticipated. This partly because of tight relation between the two.
	Port the GUI to the new data structure	Casper	Casper, Joel	5	15	Yes	
As a customer, I want to see my feedback on Quality of Life aspects implemented	Dump more information to the console	Niels	Niels	2	2	Yes	(Casper has done this)
	Update Product Vision and Planning documents	Felix	Felix	3	3	Yes	(Joel has done this)
	Move Product Planning to GitHub wiki	Joel	Joel	2	2	Yes	
	Move Product Vision to GitHub wiki	Joel	Joel	2	2	Yes	
	Remove duplicates in the recent files overview	Georgios	Georgios	2	2	Yes	
As a developer, I want to have proper build tools and continuous integration, in order to get confidence that the developed features actually work	Set up a dependency injection framework	Casper	Casper	3	2	See comment	After researching, we have decided to not actually implement this, see https://github.com/nielsdebruin/dna/issues/43 for a more detailed reason

Problems

Dependencies between issues

Description: Because of blocking inter-dependencies between tasks, development could not always proceed at its maximal pace. An example of this was the port to the new datastructure, which took longer than expected and had a lot of other pieces of functionality waiting for it.

<i>Reaction:</i>	Unfortunately, this issue was not easily resolvable during the sprint. We just did our best at finishing the blocking issues as fast as possible, and put special emphasis on making dependencies clear between tasks in the next sprint.						
Porting the datastructure took longer than expected							
<i>Description:</i>	Integrating the new datastructure with the application was not as straight-forward as we hoped, meaning that we spent more time on it than expected						
<i>Reaction:</i>	We increased communication and coordination efforts to ensure that the things that were still left to be done were resolved as quickly as possible.						
Improvements for next sprint							
- In the past, we sometimes had some failing builds in a row, we will from now on try to fix failing builds withing 1 or at most 2 commits							
- From now on, we will use hours instead of time units							