Sprint Retrospective, Iteration #5

NOTE:
Multiple asignees means that the time is divided.

Context Project: Programming Life

Group: desoxyribonucleïnezuur

User Story #	Task #	Task Assigned To	Estimated Effort per Task (in hours)	Actual Effort per Task (in hours)	Done (yes / no)	Notes
Bookmarks	Open and draw a graph from a bookmark	Yannick	3	3	Y	
	Show broader information of a bookmark	Yannick	1	1	Y	
	Update the edge cases of bookmarks	Yannick, Martijn	2	2	Y	
Drawing	Remove not working generics	Ivo	0	4	Y	We first made it using generics, but that became one big clusterfuck, so we abanded that and implemented something less generic.
	Implement Datastructures	Ivo, Iwan, Martijn	0	18	Y	
	Try to Implement old generic dataStructure	Ivo, Iwan, Martijn	20	18	N	
	Implement Layer Algorithm	Ivo	13	3	Y	Implemented a quick fix and it turned out to be quite good, so we left it.
	Implement Drawing from Datastructure	Iwan, Martijn	5	12	Y	The datastructure had some problems with duplicated nodes that did not have the same location. We had to fix this first to be able to correctly draw.
	Benchmarking the drawing speed and finding the slowest method.	Iwan	1	1	Y	
	implement Dummynodes and the algorithm to add them to the graph.	Ivo, Martijn	part of layer Algorithm	8 (Ivo 5, Martijn 3)	Y	These 5 hours should be added to the Layer Algorithm task, so that task took about 8 hours total
	Increase toposort speed (to O(n+m) instead of O(n^3))	Ivo	5	1	Y	Many of the anticipated problems did not occur for a change.
	Implement getting the node/edge at a position	Ivo	5	0	N	We lost too much time trying to implement generics, so we didn't have the time to implement these afterwards.
	Dynamic loading and zooming	Yannick	8	0	N	
	Use canvas instead of JavaFX groups	Iwan, Martijn	3	0	N	

Loading and storing human, tomato and TB328	Store metadata about nodes	Toine, Iwan	10	16	Y	
	Parse genomes	Toine	3	5	Y	
	Benchmarking the parsing speed with profiler and trying different settings/algorithms	Toine, Iwan	3	3	Y	
	Use a cache	Ivo (done by Toine)	13	13	Y	
Fix the tests on local machines and for maven	Use of the javafx toolkit for maven	Yannick	4	6	Y	
	Update on the usage of threads	Yannick	2	2	Y	
	Repair the tests that were broken	Yannick	3	5	Y	
Misc	Show graph statistics in sidebar	Toine	3	0	N	
	Place caches in specialized folder	Toine	2	0	N	
	Update the IntelliJ code inspection and documentation	Yannick	1	1	Y	
	Attend and prepare for meetings	All	5	5	Y	
	Creating Retrospective and Backlog for next week	All	10	10	Y	
	Minimap to see where you are in graph	Yannick	2	1	N	
	Duplicates in recent files	Yannick, Toine	3	1 (Yannick 1, Toine 0.17)	Y	When we made this issue, we didn't know how long it would take to pinpoint it. Yannick spent an hour searching but couldn't find it. Toine found it after some searching.

Main Problems Encountered				
## Generics				
Description: We have lost a lot of time last week but also almost the whole of monday with trying to implement a drawing datastructure using Generics. This became way too complex to maintain plus the fact that Ivo was the only one that sortof knew how everything worked together made it very hard to work on it.				
Reaction: We solved this by removing most of the generics which made the code clearer to understand and easier to maintain. We did lose the whole monday with trying to get the generics to work.				