

# Retrospective for Sprint 4

User Story	GitHub issue number	End-responsible	Task	Assignees	Estimated effort (hours)	Actual effort (hours)	Done	Notes
As a user, I want to be able to load the tomato GFA file	327	Casper	Improve parser performance / memory usage	Casper	10	10	Yes	
			Dump graph to something else	Casper	8	12	Yes	For a good optimization we had to use native code, which took a lot of time in terms of researching and compiling and testing for different platforms
As a user, I want to navigate through the graph using a user-friendly coordinate system	322	Georgios	Write to database	Georgios	8	8	~	The functionality of this item is completed, it only needs to be tested a bit more extensively and PR'ed into the main codebase
			Translate to database query	Georgios	8	2	No	The stored index point is retrieved, but the application now also needs to infer the actual node from that index point
As a user, I want node information to be loaded faster	317	Casper	Sequences in memory	Casper	7	3	~	Researched and prototyped, decided not to actually use this in 'production', see: <a href="https://github.com/nielsdebruin/dna/issues/319">https://github.com/nielsdebruin/dna/issues/319</a>
As a user, I want to see a loading bar when the application takes a long time to load something	315	Casper	Add a loading bar	Casper	3	4	Yes	
As a user, I want to pan through the graph	310	Joël	Pan with scrollbar	Joël	6	3	Yes	
			Pan with drag & drop	Joël	7	8	Yes	
As a user I would like the application to be intuitive and idiomatic for a smooth user experience	308	Niels	Expand the menu options	Niels	4	1	Yes	Partially covered by other PRs
			Add help menu	Niels	6	10	Yes	This took a lot more time than expected. I also refactored and retested old code. Note: The core of the help menu is now online though I am working on a new version build gained knowledge of last sprint.
			Persistent last directory	Georgios	2	2	Yes	
			Edge width	Felix	1	2	Yes	
			Add keyboard shortcuts	Niels	4	3	Yes	Started coding a full fledged key event class. However, during process I found out that JavaFX has built in support for the feature.
			Console in separate thread	Niels	4	1	Yes	Was fixed by progress bar Pr
			Add filter and debug level in the GUI	Niels	2	7	Yes	Add the option to the setting menu was relatively easy. However, while doing so I also refactors all controllers of the settings menu. Then wrote test for all these controller (which were originally missing). Then rewrote all those again after another refactor of the way javafx action events in the entire application.
			Highlighting of selected nodes	Niels	4	4	Yes	
			Logging should be expanded	Niels	4	2	Yes	Fixed a few bugs when logging to uninitialized GUI

			Expand the console functionality	Niels	5	3	No	Still a work in progress, currently refactoring console window to for better testability, functionality and eye candy.
As a user, I want to have a performant data structure that loads only the necessary data	305	Felix	Make dynamically growing structure	Felix	11	13	Yes	
			Dynamic layout calculation	Felix	2	8	No	Postponed to next week
As a user, I want to be able to load gzip files	214	Felix	Add loading of gzip files	Felix	3	0	No	Postponed to next week
As a user, I want to bookmark a position in the sequence graph	207	Georgios	As a user, I want to have an overview of the bookmarks I have created for a specific file	Georgios	5	4	~	
			Load bookmarks	Georgios, Joël	2	2	Yes	
			Store bookmarks	Georgios	3	4	Yes	
As a user, I want to be able to zoom in and out of the graph structure	124	Joël	Change centre point query dynamically with zooming	Joël	10	9	Yes	I had lost some time trying to discover an underlying bug where nodes get cutt off when the user scrolls out.