Sprint Backlog, Iteration #8

User Story	Task	Member responsible for the task	Task Assigned To	Estimated Effort per Task (in hours)	Actual Effort per Task (in hours)	Priority (A—E) (A is highest)	Done (yes/no)	Notes
As a user I want to be able to load and examine the 328 genomes set	Improve performance of application so that it loads the 328 genomes dataset.	Björn	Björn, Hugo	13	15	В	no	See problem #1
As a user, I want to have visual encodings for different classes of mutations and the ability to filter on mutation class	Implement the ability to highlight snips in the gui. Snips should be colored according to their normal colouring, whereas the rest of the graph should be colored black/grey.	Daniel	Daniel, Björn	10	12	А	yes	Referenced in problem #5
	Implement the ability to filter on indels in the gui. Indels should be colored according to their normal colouring, whereas the rest of the graph should be colored black/grey.	Evan	Evan	6	6	В	yes	
As a user, I want the application to load smoothly without it appearing to freeze.	Include the graph loading into the loading bar so that the loading progress can be fully followed. Also verify what values of the progressbar should be used for which part of the loading.	Björn	Björn	10	11	А	yes	
As a user, I want the graph nodes to be correctly displayed when zooming in	Fix the horizontal lines bug so that the graph is correctly displayed when fully zoomed in (like in release 7.0.2)	Rob	Rob	12	13	А	yes	
As a developer, I want to have clear and understandable code in the ribbon view/controller	Remove the GraphController and graph tab and place the ribbon view and graph view in seperate files.	Daniël	Daniël	8	8	А	no	This task was almost finished but could not be completed due to some problems working concurrently on the exact same parts of the code.
As a user I want to select certain genomes based on certain criteria found in the metadata.xlsx file	Implement filtering on metadata in the phylogenetic tree.	Hugo	Hugo	16	6	В	no	
As a user, I want to be able to search on annotation and go to the location of the found annotation.	Implement search box in the gui for the annotations.	Hugo	Björn, Hugo	9	1	С	no	
As a user, I want to at which node of the graph an annotation starts and at which node it ends. This should be visible using edges to the start and end, when the annotation is clicked.	Implement edges between the annotations and nodes when the annotations are clicked.	Daniël	Daniël	15	1	В	no	See Problem #5
As a user, I want to have a correct and clear annotation view	Fix the inreadability of the annotations when zooming out and make sure the annotations match the alignment of the graph.	Rob	Rob	11	0	В	no	See Problem #2
As a user, I want the ribbon view to have the right colours	Determine graph lineage colour by majority vote, instead of top genome	Evan	Evan	7	8	В	yes	
As a user, I don't want to have any bugs while executing the program	Fix the bug that the nodes were unreadible in the TB328 file	Rob	Rob	5	6	Α	yes	
	Fix the bug that the graph view isn't using the full vertical distance	Rob	Rob	6	5	А	yes	
As the client i want to see a presentation and demo every week to keep me up to date with how the project is progressing.	Create, practice, and present the client meeting presentation.	Evan	Evan	3	2	С	yes	
As the client I want to be able to view the Architecture design document and understand the design of the project	Update the Architecture Design Document to be current with the projects architecture	Evan	Evan	4	2	D	yes	
As the coordinator, I want to have a good understanding what the programmers did	Write the draft for the final report	Evan	Evan	6	6	С	yes	

Problems

Problem #1: Optimization

Description: Improving the performance for the 328 genomes data set turned out to be very difficult. We tried all methods we could think of and have researched different approaches. In the end, nothing seemed to improve the performance.

Solution: We did not improve the performance but we managed to run the TB328 by pre processing the TB328 on a computer and ran it for 12 hour

Problem #2: Annotation inreadability

Description: There was no time left to fix the annotation inreadability, because the bugs that were discovered (which had greater priority) were fixed first

Solution: We should have reserved time for fixing existing bugs in the sprint plan, that can have a higher priority than the feature

Problem #3: Metadata selection

Description:

There was no time for selecting certain genomes based on the criteria found in the metadata.xlsx file. More important things had to be done, such as detecting mutations, fixing the NewickTree, being able to show the 328 genomes, writing the Interaction Design document and writing the final draft document.

The time planned for this was instead spent on the more important issues named the problem description. The task itself is of lesser importance, but it will be finished if there is time before wednesday. Solution:

Problem #4: Annotation search

Description: There was no time to look at this feature.

Solution: See solution of #3

Problem #5: Annotation edges

Description: After researching the possibilities to implement edges from the annotations to the corresponding start and end nodes, it became clear that this would not be possible without refactoring large parts of the annotations.

Given the available time, we decided to drop this task. The person assigned to it, Daniël, replaced this task with work on the indel/snp hightlighting and on creating information popups. To prevent this sort of problem in the future, we will research the possibilities before creating a task. Solution