Sprint plan #5 revision

Context project: Programming Life

Group: 3

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User Story	Task	Assigned To	Estimated effort (1-5) 5 = highest	Priority (1-5) 1 = highest	Actual effort (in hours)	Done	Done by	Actual outcome
Stakeholders need to have assurance of the build quality of the software	Create a draft for the Emergent Architecture Design document	Tom (all)	3	1	2	Y	Tom	
As a user I want to zoom in and out witle keeping a constant amount of information on the screen, so I won't be overwhelmed	Make the zoom focus on the zoomed position	Sam	3	2	8	Y	Sam	
	Change the way nodes are positioned, to prevent nodes from jumping on the x axis while zooming.	Sam	1	2	1	Y	Sam	
	Make the nodes their unfolding depend more on the space left on the screen.	Sam	3	2	6	Y	Sam	
As a user, I want an estimation of the remaining loading time, so I can effectly use my time and know if the program is still doing something.	Satisfying load bar	Tom	3	5	6	Y	Kasper	Mouse loading, because loading is now almost instant due to performance increase of Mathieu
As a user, I want to be able to work with large datasets.	Fix problem with large datasets	Sam	3	2	3	Y	Sam	Also increased performance of dead edge filtering.
-	Prepare presentation for friday	Kasper (all)	2	3	5	Y	All	UML updated
As a developer, I want to get a good impression of our code quality, so that I can improve our code quality.	Prepare for SIG input	Tom (all)	3	1	3	Y	Tom	
As a user, I want to work with a visually useful and appealing application.	General look and feel of GUI	Kasper	5	1	8	Y	Kasper	Also did a refactor on MVC
	Styling graph	Mathieu	4	3		Y	Mathieu	
As a user, I want to have a clear view of the phylogenetic tree.	Styling nwk tree	Kasper	2	2	0	Y		The current style was already sufficient
As a user, I want to deduce helpful information on the genome from the graph	Draw number on nodes, representing something	Boris	1	3	4	Y	Mathieu	Base pair count in the node
	Display node count as number on nodes	Boris	2	3	4	Y	Mathieu	Base pair count in the node
As a user, I want to view information on nodes in the graph.	Gather information of node when mouseover and/or clicking	Mathieu (Tom)	3	4	7	Y	Tom	Information is now loaded and stored internally, display will be implemented next week.
	Display gathered information of node	Mathieu (Tom)	3	4	3	N	Mathieu	Shifted priorities to other features
As a user, I want to filter my data to view a useful subset.	Fix remove filtered genome from filtered GraphData after filtering.	Boris	2	1	18	Y	Boris/Sam	
As a developer, I want to keep track of the current state of the program, so I can better understand what the current state of the program is.	A logger to handle logs and catch exceptions	Kasper	1	5	2	N	Boris	We started this in a separate branch, but other things had higher priority
As a user, I want to use this program on every OS, so I can use my preferred OS.	Fix: Mac fileselection	Boris (Tom)	2	1	1	Y	Boris	

- **Notes explaining the actual outcome:**
  A lot has been done this sprint, the backend work that has been done last sprint has now mostly been visualised in the application. This means that the product looks a lot more enhanced than at the end of last sprint. Semantic zoom is in place, the phylogenetic tree selector is implemented and we have improved the UI. Another important thing is the huge performance boost we have achieved during this sprint, reducing loading times by a factor 10. We have put in extra time this week to ensure we have a good product to present, and also to compensate for next sprint when our availability is reduced.
- **A description of main problems encountered and the reaction implemented to face them:**
  - We had a filter to filter based on a genome selection, of which we thought it worked. Then we found out that it wasn't working properly so we had to fix it. This turned out to be a hard task, because it was not very clear why the error occured and we couldn't reproduce it in our tests. After a lot of debugging and testing we found the bug.
  - We tried to implement a loading screen with live updates, but this turned out to be a pretty hard job in Swing. We fixed this, by just showing a loading icon and improve the speed of the application drastically.
  - We had one branch that changed the whole MVC structure quite a lot. We merged this with the master, which caused a lot of merge conflicts the other branches. Next time we will do these merges at last.
- **Adjustments for the following sprint plan**
  Generally we are very satisfied with how this sprint was executed. We have done almost all of our tasks and some subtasks as well. In comparison to last week our sprint encapsulated our actual work a lot better, which means the sprint plan adequately reflects our effort this week. The only adjustment we are making next sprint is the size of the sprint, as our availability is temporarily reduced next sprint.