Sprint plan #4 revision

Context project: Programming Life

Group: 3

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	4	Y	Tom	First draft has been created
Users need to have an overhead view of all data in the graph	Create a scrollbar and allow selection of a part	Kasper (Mathieu)	4	2	5	Y	Kasper	Due to a new data structure the scrollbar needs to be reconfigured to work correctly
	Mapping of graph to scrollbar	Kasper (Mathieu)	2	3		N		Due to a new data structure the scrollbar needs to be reconfigured to work correctly
As a user I want to be able to zoom the graph to level 3 So I can view the independent mutations	Collapse nodes that contain uninteresting mutations	Sam (Boris)	5	3	120	Y	Sam, Boris, Kaspe	
	Show these nodes as a single node, with a number that says how many mutations are in there	Sam (Mathieu)	2	4		N	Sam, Boris, Kaspe	The numbers are not shown yet
As a user I want to be able to zoom the graph to level 2 So I can view the independent mutations	Colapse all nodes that contain mutations	Tom (Sam)	4	3	See 'Collapse nodes' task	Y	Sam, Boris, Kaspe	Was done in the "Collapse nodes that contain uninteresting mutations" task
	Show these nodes as a single node, with a number that says how many mutations are in there	Tom (Sam)	2	4		N		The architecture wasn't ready yet, see reflection.
As a user I want to be able to zoom the graph to level 1 So I can view the independent mutations	Devide the graph in 20 (maybe less) nodes. Each node represents an equal sized part of the graph	Boris	3	4		N		The architecture wasn't ready yet, see reflection.
	Show these nodes, with a number that says how many mutations are in there.	Boris	2	5		N		The architecture wasn't ready yet, see reflection.
	Make the node radius dependant on the amount of mutations (more mutations is larger)	Boris	1	5		N		The architecture wasn't ready yet, see reflection.

- **Notes explaining the actual outcome:**
  The actual outcome of this sprint is very different from what we planned. We planned to implement all different zoom levels, because this was a big wish of our customer. When we started, we realised that our data structure needed a big overhaul before we could actually implement the zoom levels. Therefore we've spent most of our time setting up the new data structure and making the semantic zoom work. We've managed to get this all working in one week, so a lot has been done this sprint.
- **A description of main problems encountered and the reaction implemented to face them:**
  - There was a bug in the GraphStream library we use. We have spend a lot of time detecting where the problem was and we found out there was a bug in the library. We have created a pull request (that was merged by the owner) for the library and made a workaround for the current version of the library we use. https://github.com/graphstream/gs-core/pull/148
  - We encountered some problems with the stylesheet we use for the library. It removes the stylesheet when we remove all nodes and edges and we can not apply the stylesheet again. We tried to resolve this problem, but we have not succeeded yet.
  - We had not yet designed how we would implement the semantic zooming on the day when we wrote the sprint plan. This was partly to blame on the short week due to holidays. So we couldn't divide or oversee the tasks. We responded to this by dividing the work as soon as the design was known and the architecture was implemented the next monday morning.
  - This week we diverged from the sprint plan a lot, this was caused by the big architecture change that was needed in our product. The result is that a big portion of the work done this week is not reflected in our sprint plan, e.g. the new data structure, parsing of the phylogenetic tree.
- **Adjustments for the following sprint plan**
  For the following sprint plan we are focusing on refining the current product. The two main functionalities are now in the product: Semantic zooming and the Phylogenetic tree filter. Now we will make these two components work more seamlessly and make the look and feel of the product better.
  Also, we will divide our tasks into smaller parts, and have a design ready before we make a sprint plan.