

TI2806 Contextproject

EWI/EEMCS

Sprint Reflection 4

Programming Life Group 4

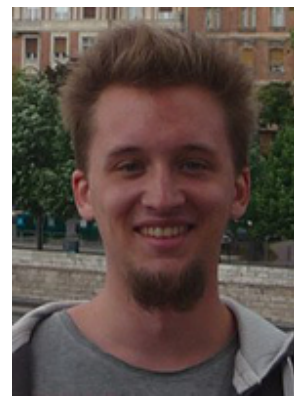
May 22, 2015



Owen Huang
ohuang 4317459



Gerlof Fokkema
gfokkema 4257286



Jente Hidskes
jhidskes 4335732



Piet van Agtmaal
pvanagtmaal 4321278



Skip Lentz
smlentz 4334051

Sprint Reflection #4

Programming Life 4

User story	Task	Task assigned to	Estimated number of hours	Actual effort (hours)	Priority (scale 1-5; low to high)	Done	Notes
As a user, I want to be able to put the graph in context of evolutionary relationships through phylogeny, so I can see more of the phylogeny of my DNA samples	Parse newick files	Piet	5	6	5	Yes	
	Display phylogeny tree	Jente & Piet	15	29	5	Yes	Lots of time was spent exploring the possibilities for drawing. Eventually we found a similar tree type that was much more common and thus better documented. After that, tweaking the drawing cost much time.
	Connect phylogeny widget with the graph	Jente & Piet	15	3	4	No	Displaying the tree took too much of our time.
As a user, I want to be able to quickly distinguish nodes.	Automatic color code of nodes.	Owen & Skip	4	1	4	No	Functionality is present, algorithm is not.
	Automatic color code edges.	Owen & Skip	4	1	4	No	Functionality is present, algorithm is not.
As a user, I want to be able to interact with the graph to obtain different information about genome samples.	Semantic zooming.	Gerlof & Skip	12	8	5	Yes	Finish last weeks remaining issues.
As a user, I want to be able to cluster nodes.	Implement efficient clustering queries	Gerlof & Skip	12	12	4	Yes	
	Implement clustering of nodes.	Skip & Owen & Gerlof	5,5	20	4	No	Model had to be partially redesigned.
As a user, I want to be able to interact with nodes.	Make group selection on nodes.	Jente & Gerlof	3	3	5	No	Pickresult has to be reimplement to use Circle boundaries.
As a user, I want know when I have to wait.	Implement splash screen.	Owen & Piet	4	8	2	Yes	Creating the task to load the database turned out to be harder than expected. The splashscreen itself was just slightly harder to implement because of lack of documentation.
As a user, I want to see properties of the items I have selected in the graph.	Implement an interface to query elements.	Jente	2	2	2	Yes	
	Implement the pane widget	Jente	4	6	2	Yes	
As a user, I want to open files from one place.	Implement a new OpenFileDialog that allows for opening files from one place.	Piet	4	7	3	Yes	Turned out to be quite vulnerable to bugs. Took some more time than planned to fix these.
Main problems encountered							
Problem 1:	Drawing edges						
Description	Drawing edges from cluster -> cluster was harder than expected						
Reaction	ModelItem will have to be partially redesigned to allow for edges between clusters and nodes. Nodes will simply be a cluster with only 1 node.						
Problem 2:	Selecting nodes						
Description	Picking nodes turned out to be inaccurate						
Reaction	Turns out we have to use a JavaFX Circle to get correct bounding boxes for the pickresult. This probably means reimplementing a DrawableCluster.						