Sprint Retrospective, Iteration #4

Context Project: Programming Life

Group: Byzantine Generals (PL1)

User Story	Task	Task Assigned To	Esmitated Effort per Task (in man-hours)	Actual Effort per Task (in man-hours)	Done (yes/no)	Notes
As a developer, I want to have decoupled and tested classes So that the code can more easily be extended	Increase test coverage	Kamran Tadzjibov	3	2	yes	
	Refactor large classes	Kamran Tadzjibov	5	6	yes	
As a DNA researcher, I want to have a fast(er) application (using databases) So that the DNA can be analyzed more efficiently	Set up database	Adam el Khalki	4	4	yes	
	Add all segment information to the database	Adam el Khalki	4	5	yes	
	Expose database functions to server	Adam el Khalki	5	0	no	Not done due to illness
	Use database to remove redundant computations	Adam el Khalki	5	0	no	Not done due to illness
As a DNA researcher, I want to have semantic zooming So that the information displayed is always relevant	Devise and implement bubble detection algorithm	Ali Smesseim	24	22 + 14	partly	Ravi helped with this task. Algorithm does not work on edge cases yet
	Devise and implement data structure for bubble storage	Ravi Shivam Autar	10	12	yes	
	Implement JSON serializing for bubbles	Ali Smesseim	4	4	yes	
	Add bubbles to API	Samuel D. Sital	2	2	yes	
As a DNA researcher, I want to see the higher level structure of the graph in the minimap So that the context doesn't get lost when zooming in	Devise and implement high level structure detector	Ravi Shivam Autar	12	0	no	Could not be done, since Ravi helped with implementing the bubble detection algorithm
	Convert the graph to ribbon view	Adam el Khalki	10	0	no	Not done due to illness
	Show ribbon in minimap	Samuel D. Sital	8	0	no	Not done, since the previous two tasks weren't done
As a DNA researcher, I want to select particular genomes to show So that only genomes I'm interested in are shown	Integrate phylogenetic tree into graph view	Samuel D. Sital	8	7	yes	
	Let client select genomes to show in the phylogenetic tree	Samuel D. Sital	6	5	yes	
	Fix bugs and test old genome selection algorithm	Kamran Tadzjibov	10	8	yes	
As a DNA researcher, I want to highlight specific genomes in the graph So that I can focus on the genomes I'm interested in	Send client info to highlight specific genomes	Samuel D. Sital	4	5	yes	
	Implement genome path highlighting in the client	Samuel D. Sital	6	5	yes	
	Highlight reference genome	Kamran Tadzjibov	2	2	yes	
	Allow client to select genomes to highlight	Kamran Tadzjibov	8	6	yes	

Main Problems Encountered

Problem 1

Description: The bubbling collapsing part, arguably the most important part of this entire project, was not finished. Meanwhile, some other unimportant tasks were finished.

Reaction: Focus entirely on the most important aspects to finish the next sprint. Bubble collapsing should receive the utmost priority, and a lot of man-hours will be assigned to this.

Problem 2

Description: Not all bubbles were detected, because the data has certain edge cases. The issues in the bubble detection algorithm were detected late.

Reaction: A lot of time needs to be allocated to the bubble detection algorithm.

Problem 3

Description: Due to an illness of group member Adam, his tasks were either reassigned to other team members or not done at all.

Reaction: It is hard to make a proper reaction to this, other than hoping that none of the team members fall ill.

Problem 4

Description: As a lot of work was done later the week, there was not a lot of time to integrate separate components into a working demo.

Reaction: Have meetings over Skype in the weekend, and dedicate a lot of the weekend to developing.