# Sprint Retrospective 7

User Story	Task	Task	Estimated Effort per Task	Actual	Done	Notes
		Assigned To	(in hours)	effort per		
				task (in		
				hours)		
As a user I	Make	Jeffrey	10	13	Yes	
want to be able	algorithm to					
to see the	recognize					
strands when	mutations					
zoomed in and	(SNP,					
mutations	duplications)					
when less						
zoomed in						
	Make	Jeffrey	10	0	No	Abeel indicated that
	algorithm to					this feature was
	recognize					unnecessary, during
						the meeting

	mutations (inversions)					
	Visualize mutation in an intuitive way	Jeffrey	5	8	Yes	Not completely finished, mutations only show on labels.
As a user I want the program to be fast, even with large datasets	Get the Spring framework up and running	Youp	8	15	Yes	Changed to Neo4j OGM, which was unplanned and therefore took more time
	Change constructors from database	Youp	4	6	Yes	
	Finish coupling to database	Youp	4	10	No	Turned out to be non-trivial and include refactors

	Implement caching algorithm	Youp	12	2	No	Other tasks were too demanding
As a user I want a user-friendly program	Make zooming view draggable	Thomas	6	0	No	Phylogenetic tree turned out to be time-consuming
As a user I want to navigate and select genomes from the Phylogenetic tree in an easy way	Visualize the phylogenetic tree	Thomas	8	8	Yes	Switched to radial instead of linear view
	Collapse the phylogenetic	Thomas	8	8	Yes	

	tree and give a					
	Make the phyogenetic tree user-friendly	Thomas	4	2	No	Still improvements to be done.
As a user, I want a cleanly visualized graph	Refine bubble-collapsi ng algorithm	Matthijs	8	10	Yes	Algorithm was easy, but optimizing turned out to be time-consuming due to memory constraints
	Fine tune y-coordinates	Matthijs	5	6	Yes	Y coordinates now based on genome.
As a user I want to visualize the semantic	Labels should be different based on zoom level	Matthijs	4	0	No	Mutations did not work as expected, so was unable to implement.

context of the zooming level						
	Visual information should be different based on zoom level	Matthijs	3	0	No	See above
	Implement annotations	Kasper	20	35	Yes	More refactoring was needed than expected
	Create a bookmark system	Kasper	4	0	No	

## Main Problems Encountered

### **Problem 1**

Description: The framework used for automatic mapping to object was a major hurdle again, also resulting in a switch from Spring to Neo4J OGM.

Reaction: Luckily, the framework is working at the moment and although difficulties persist, it is usable. Some refactoring of our original code is still needed though.

#### **Problem 2**

Description: The mutations algorithm did not work.

Reaction: Work on the frontend for mustations was postponed to next week.

#### **Problem 3**

Description: We found out our code was not that well-structured at all places, resulting in us choosing to refactor instead of focus on features (in order to make the app future proof).

Reaction: Factories were created for multiple classes, along with other improvements.

#### **Problem 4**

Description: Mayor merges were made on thursday evening, which resulted in a lot of last minute work, and lower code quality than wanted.

Reaction: Working through thursday night.

## Adjustments for the next Sprint

No more large integrations on thursday evening.

Avoid getting into technical debt.

Since mutations should be working this sprint, these problems should be solved.