# Sprint Backlog, Iteration #6 Retrospective

| User Story | Task | Member responsible for the task | Task Assigned To | Estimated Effort per Task (in hours) | Actual Effort per Task (in hours) | Priority (A—E) (A is highest) | Done (yes/no) | Notes |
|---|---|---|---|---|---|---|---|---|
| As a developer I want to have 85% branch coverage | Increase branch coverage of all but the gui classes to at least 85%. | Hugo | Hugo, Bjorn | 12 | 10 | B | no | See problem 1 |
| As developer I want the graph to be stable and dynamic, so it can be expanded upon more easily | Refactor graph and ribbon classes to facilitate dynamic drawing, which is required for semantic zoom. | Daniël | Björn, Daniël, ~~Evan, Hugo, Rob~~ | 40 | 25 - Daniël<br>20 - Björn | A | no | See problem 3 |
| As a developer I want to see exceptions if something goes wrong when running the program | Fix invisible exceptions on launch | Björn | Björn | 6 | 5 | C | | |
| As a user, I want to zoom out and still see the graph | Fix the bug when you zoom out, the graph disappears | Rob | Rob | 5 | 2 | A | no | Impossible to do in parrellel with the refactoring |
| As a user, I want the links to have a bigger width when there are more genomes through it | Fix the bug in the collapsed ribbon view, so that collapsed ribbons have a bigger width | Rob | Rob | 6 | 2 | E | no | Impossible to do in parrellel with the refactoring |
| As a user, I want to see annotations of the reference genome | Write a parser and store the data in the database | Evan | Evan, Rob | 6 | 3 - Evan<br>6 - Rob | A | yes | See problem 2 |
| | Visualize the annotations on screen | Rob | Rob | 15 | 16 | B | yes | |
| As a user, I want the philogenetic tree to have the lineage colors | Get the colors from the metadata file and add those to the philogenetic tree | Hugo | Hugo, ~~Bjorn~~ | 10 | 12 | A | yes | |
| As a user, I want the switch between graph view and ribbon view to happen automatically | Implement the ability to switch without tabs | Rob | Rob, Hugo | 10 | 2 | C | no | Impossible to do in parrellel with the refactoring |
| As the user, I want there to be a link between the phylogenetic tree and the graph so that I can better find patterns in the data. | Implement the ability to select a single genome in the phylogeny and only view those in the graph in the gui | Evan | Evan, Rob, Daniel | 15 | 1 | A | no | Impossible to do in parrellel with the refactoring |
| As the user I want to have a menu in the phylogeny so that I can view various details about genes. | Implement a menu in the phylogeny that can be used to display the details about a selected phylogeny | Evan | Evan, Rob, Hugo | 14 | 15 | B | yes | |
| As the client i want to see a presentation and demo every week to keep me up to date with how the project is progressing. | Create, practice, and present the client meeting presentation. | Evan | Evan | 3 | 5 | B | yes | |
| As the client I want to be able to view the Architecture design document and understand the design of the project | Update the Architecture Design Document to be current with the projects architecture | Evan | Evan | 1 | 0.5 | D | yes | Architecture document will need to be changed, but the restructuring is not merged so it should not be changed yet. |

### Problem #1 : 85% test coverage

Description: The code that prevents 85% coverage is H2 database code, or more specifically; SQLException tests. JUnit does not catch the exceptions thrown by this database

Reaction: We tested everything that was relevant to test and skipped the SQLException. We are supposed to test our own application, not the H2 database. Add to that, that we are short on time, and testing SQLExceptions truly become the lowest priority.

### Problem #2 : Gff parser

Description: Some characters which were in the gff file (for example, the ' character) couldn't be added to the h2 database

Reaction: As a reaction, some of these were saved as other characters that the parser then recognizes as that character, but some were also irrelevant so the parser is able to simply not add them to the database.

### Problem #3 : refactoring

Descrption: There was a lot of time spent on thinking about the graph structure on paper. The underlying structure is almost complete but is not visible in the gui. As a result some people were not able to work on their tasks before the refactoring is finished

Reaction: As a reaction to the fact that people were not able to work on their tasks, we took things that we were going to work on in the future that are seperate from what is being refactored and assigned them to be done this week. The tasks that were not completed are being moved to the following week for when the refactoring will be finished and they can be completed properly.