

Sprint reflection 5

Context Project: Health Informatics

Group: HI4

User Story	Task	Task Assigned To	Estimated Effort per Task	Actual effort per task	Done (yes/no)	Notes
The user wants to see the output of his program before it is saved and be able to edit it	- Create a screen that shows a preview of the output after analysis	Remi	2 Hours	2 Hours	Yes	This was shown at the demo.
The user wants to create relations between records based on a condition to link related data elements	- Extend language construct for connecting	Hans	2 Hours	2 Hours	Yes	
	- Implement a way to create relations	Hans	5 Hours	5 Hours	Yes	
	- Thinks of a way to output relations in an understandable way	Sven	3 Hours	3 Hours	Yes	
	- Store the relations in the data structure	Sven	2 Hours	3 Hours	Yes	
The user wants to compare time	- Extend language construct for comparing	Elvan	2 Hours	2 Hours	Yes	Comparison on numerical

between events in the data for sequential analysis	- Implement (script) code for comparisons on the data	Elvan	5 Hours	5 Hours	Yes	values is also added. The parser automatically detects which comparison (time or value) to perform.
	- Store the (time) differences in the data structure	Elvan	2 Hours	2 Hours	Yes	
The user wants to add comments to (unexpected) results in the GUI as keywords or as memos of his own reflection	- Create a parser for the comment construct	Hans	3 Hours	3 Hours	Yes	GUI was updated too late to add this option. Moved to next sprint.
	- Add comment option in the GUI with every record that is shown	Matthijs	2 Hours	-	No	
The user wants to select an XML file which fills in the file groups for him	- Add an option to load the XML file in the GUI	Remi	1 Hour	1 Hour	Yes	
	- Parse an XML file into groups	Matthijs	2 Hours	2 Hours	Yes	
	- Add the groups visually to the program	Remi	3 Hours	3 Hours	Yes	
The user wants to specify which columns need to be analyzed	- Add checkboxes to columns in the GUI to indicate if they need to be included for the analysis	Remi	3 Hours	3 Hours	Yes	

	<ul style="list-style-type: none"> - Modify the parser to not store the data of the excluded columns 	Hans	2 Hours	2 Hours	Yes	
The user wants to save the created groups to an XML file	<ul style="list-style-type: none"> - Add an option to store the current configuration - Write the current configuration to a file 	Matthijs Matthijs	3 hours 3 hours	3 Hours 3 Hours	Yes Yes	
The user wants the code to be clean, documented and well tested so it can easily be extended for future use.	<ul style="list-style-type: none"> - Refactoring: Make sure your own code is fully tested (test coverage should be at least 75%) - Refactoring: Make sure your own code is well documented - Refactoring: Check your code with Cobertura, PMD, FindBugs and CheckStyle. - Test the GUI on JavaFX Services with JUnit tests following the dependency injection pattern 	Everyone Everyone Everyone Sven	2 Hours 1 Hour 1 Hour 5 Hours	2 Hours 1 Hour 1 Hour 6 Hours	Yes Yes Yes Yes	<p>All Checkstyle issues were solved, JavaDoc was updated and we achieved a test coverage above 75%.</p> <p>The coverage of the GUI was increased up to 21%.</p>
The client wants an up to date emergent architecture document	<ul style="list-style-type: none"> - Update the architecture document 	Elvan	2 Hours	2 Hours	Yes	A part on XML configuration and design patterns in the

						SelectController was added.
The user wants the structure of the program to be well thought out so it can easily be extended for future use	- Create an UML or an other kind of diagram describing the structure of the program	Matthijs	1 Hour	1 hour	Yes	This diagram is added to the EAD.

Main Problems Encountered

Problem 1

Description: Merge conflicts do cost a lot of time

Reaction: Because of the midterm exams and resits this week, most of the programming work was done in the weekend and at the end of the sprint, leaving some branches open for a couple of days. This caused a lot of merge conflicts. Some conflicts are especially difficult to fix, because sometimes git thinks that the whole file has changed, even though the file has been adjusted partially. Often this is caused by differentiation of line-endings. Git is not able to recognize this. We have gotten a fix for this from our TA Tim, so this kind of conflicts can be prevented and fixed more quickly in future sprints.

Adjustments for the next Sprint Plan

This week went really well. We were finally able to find out how to test our GUI. Even though we were shorter on time because of the midterms, we worked hard to implement more C's. Test coverage has been improved greatly. And also all reasonable checkstyle issues have been fixed.

(Motivate any adjustments that will be made for the next Sprint Plan.)

- Frequent GUI testing

Now we are finally able to test the GUI, we are planning to test the GUI more intensively and frequently from now on. This will improve our test coverage and the overall quality of the program.

- Reserve time to improve user friendliness

Now that we have implemented a major part of the program's functionality, we want to reserve more time to process the feedback of Wenxin Wang and others to improve our program's usability. Up till now we have actually done this every week but from now on we want to spend more time on this. We also want to extend the error management of the program to improve the user guidance of the system.