Sprint reflection 3

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 the data analysis before writing it to file	- Link the writer with the GUI - Extend the output module for the output of the three implemented C's	Remi Elvan	2 Hours 2 Hours	2 Hours 2 Hours	Yes Yes	There currently is no output

The user wants to perform transformations on the raw data (the eight Cs) using a scripting language	- Construct a basis for the scripting language
	  - Chunking
	  - Constraining
	  - Converting
	  - Commenting
	  - Coding
	  - Computing
	  - Connecting
	  - Comparison
		
		Hans
		Sven
		Remi
		Elvan
		Matthijs
		Sven
		Sven
		Elvan
			
			2 Hours
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					Yes
						Examples of these constructs are documented in a report for the scripting language

	- Extend the chunking operation	Hans	6 Hours	6 Hours	Yes	Chunking on time period and value is possible
	- Extend the constraints operation with nested filtering on binary operators	Elvan	5 Hours	5 Hours	Yes	
	- Extend the commenting operation by letting the user add comments manually to a generated data block	Matthijs	5 Hours	3 Hours	No	Output is not there yet, so the comment option could not be added to output
The user wants a simple and easy to grasp graphical user interface	- Improve the current GUI based on feedback of Wenxin: change analysis tab and give the operations more intuitive names	Remi	1 Hour	4 Hours	Yes	Added some more graphical updates
The user wants to enter scripts in the program, which can be executed on the selected data	- Further implementation of GUI for writing scripts (script editor)	Remi	5 Hours	6 Hours	Yes	Added the script editor but transformation screen will be added later
	- Add transformations screen to the GUI in which the user can select the preferred transformation (optional)	Remi	2 Hours	-	No	

The user wants a more convenient product planning and emergent architecture	- Improve Product Planning based on feedback	Elvan	2 Hours	4 Hours	Yes	Emergent Architecture is updated with a diagram of our MVC modelled architecture
	- Update Emergent Architecture based on feedback of the initial version	Sven	1 Hour	1 Hour	Yes	
	- Extend Emergent Architecture (ch 2 and ch 3)	Sven	2 Hours	2 Hours	Yes	
The user wants the datafiles to be analysed and presented in sequential order	- After linking, let the data be processed in a sequential data structure (transform RecordList into TreeMap)	Hans	4 Hours	4 Hours	Yes	Now the data records can be easily sorted on their timestamps
	- Create a way to transform different datums into one general datum (to group datums by day/week/year)	Sven	5 Hours	5 Hours	Yes	
The user wants to select what kind of data is in each column	- Give the user the option to specify the kind of data in each column (e.g. integers or strings)	Matthijs	2 Hours	3 Hours	Yes	
	- Store the data in the format as specified by the user	Matthijs	1 Hour	1 Hour	Yes	

The user wants the programmers to have a good vision for whom they are developing	- Create a persona of the target customer	Matthijs	1 hour	1 hour	Yes	This document can be found on our repository

Main Problems Encountered

Problem 1

Description: Underestimated test time

Reaction: Since this sprint we started to actively use the tools Cobertura, PMD, FindBugs and CheckStyle. This took more time than we planned since there were more warnings than expected and we still had to discuss which warnings needed to be solved (and which ones could be ignored). That is why the testing of our code took more time than we accounted for this week.

Problem 2

Description: Delay in the output of the program

Reaction: The code for the writer was already done at the beginning of the week and the GUI got extended with save dialogs (to save the results of files that are read or analysed) but these two got linked at the last moment before the deadline. This is why Matthijs got delayed in his task to extend the commenting operation by letting the user add comments manually to a generated data block. Comments can't be added to output if there is no output yet. We should have prioritised the linking so that Matthijs could also finish his task. From now on we will take these kind of situations into account and first begin with all prioritised tasks (which other tasks are dependent on).

Adjustments for the next Sprint Plan

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

- Make more use of Github
  Based on feedback of our TA, we will more comment on pull requests. This week there were a number of pull requests that were not discussed at all. From now on the group member who is assigned to a task also has the responsibility to make sure the pull request is approved by at least two other group members before it is merged into the master branch. This means that all group members have to actively discuss pull requests and make comments on their design, test cases and code quality before merging. Comments should also be made regarding the test coverage of the code and the output of the testing tools.

- Schedule time for testing tools
  For the next sprint plan we will make an item for the use of Cobertura, PMD, FindBugs and CheckStyle. Since this took more time than planned, we'll take it into account from now on. The group member who is assigned to this task will also make sure that ignored warnings will be explained in a PR.