Project Zelula - SCRUM plan #5

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June 13, 2012

1 Introduction

In this SCRUM plan we define the tasks we want to complete in this sprint. Every task is assigned to one or two developers and an estimate is provided for the effort required.

For each SCRUM run a milestone is created at GitHub, with issues for the tasks selected. The issues for this milestone can be found on: https://github.com/FelixAkk/synthbio/issues?milestone=12.

2 Selection and assignment of tasks

This is the fifth sprint of our project.

Available time

The time available is five mornings in two weeks by five people. That's about twenty hours per person. Including meetings we come to an estimate of 90 hours of actual working.

A list of tasks, assignments and effort estimations is included in a table.

			Effort	
	Task	Developer	estimated	actual
#81	Server: Fix simulation results	Albert	8	Actual
#86	Refactoring circuit servlet	Jieter	3	4
#87	Server: Read new CSV input	Jieter	2	4
#88	Client: Tooltip graph	Niels	2	Actual
#73	Client: Resize	Felix	6	Actual
#66	Client: Acceptance testing	Felix	8	Actual
#71	Client: Compound Gates	Niels/Thomas	12	Actual
#77	Finish Scrum plan 5	Felix	2	Actual
#52	Final report: Key Problems/Solutions	Thomas + rest	4	Actual
#55	Final report: Reflection Teamwork	Everyone	5 * 1	Actual
#89	Final report: Introduction	Jieter	1	Actual
#90	Final report: Description of product	Jieter	4	Actual
#92	Final report: Design and implementation process	First to be finished	5	Actual
#62	Confirmation on close		0	Actual
	Code Review	Everyone	5 * 3	Actual
		Total	77	-
	Optional tasks			
#43	Client: Polish circuit styles			Actual
#60	Automated QUnit tests from ant	Albert		Actual
#14	Client: Compile .less server side			dropped
#13	Client:Assign keyboard shortcuts	Felix		Actual
#84	Client: Input and output fields resize and display open connection			Actual
#82	Client: Migrate stuff to simulation tab			Actual
#65	Save input/output gate position			Actual
#43	Client: Deleting of wires and gates using delete			Actual
#43	Client: Highlighting/selecting gates to move multiple or delete multiple			dropped
#43	Client: Input and output fields resize and display open connections			Actual
#91	Client: Table with simulation results			dropped
		Total	-	-
	Extra tasks			
-	Fixing the simulator: writing our own simulator	Jan Pieter	-	20
	Exporting graph: serve our own SVG rasterizer	Jan Pieter	-	4

Grand Total

Total

3 Reflection on this iteration

Solver issues

During this iteration we discovered a problem with the connection to the solver which was implemented. It showed correct results for the transcription and translation reactions, but degradation did not work. After discussing things with Alexey, Jan Pieter decided to write a solver on its own, which initially took about 12 hours of work. Cleaning up the code and some other adjustments took another 8 hours.

During the development of our own solver, Albert worked together with Alexey to fix the problems in the first approach. The result of this is the availability of two solvers in our GUI.

Graph rasterisation, servlet issues

The graph library used in our GUI provides a way to export the graph to different image formats. This exporting requires a special server which is provided by the author of the library, but we wanted to be independent of that, so we decided to provide the rasterisation service by our own server code.

At first, it seemed very straight-forward, but quite some time was absorbed by the confusion about Tomcat's class-path. It turns out Tomcat only looks in WEB-INF/lib/* and not in it's subdirectories, resulting in a huge stack of NoClassDefFoundErrors to fix.