

# Project Documentation

Useful feedback in the Ampersand parser

**Lessons learned**

Daniel S. C. Schiavini and Maarten Baertsoen

*Open Universiteit Nederland, faculteit Informatica  
T61327 - Afstudeerproject bachelor informatica*

June 12, 2015

Version 0.1

# Contents

<b>1</b>	<b>Introduction</b>	<b>3</b>
1.1	Identification (D)	3
1.2	Goal of this document (M)	3
1.3	Document overview (D)	3
<b>2</b>	<b>Planning</b>	<b>4</b>
2.1	Original planning	4
2.2	Planning evaluation	4
<b>3</b>	<b>Assessment</b>	<b>5</b>
3.1	Process (M)	5
3.2	Approach (M)	6
3.3	Report: Daniel S. C. Schiavini (D)	7
3.4	Report: Maarten Baertsoen (M)	7
<b>4</b>	<b>Conclusion and next steps (aanzet D)</b>	<b>7</b>

	<b>Appendices</b>	<b>8</b>
--	-------------------	----------

	<b>References</b>	<b>9</b>
--	-------------------	----------

## List of Figures

1	Some relevant statistics about the time spent in the project. TODO: Update these figures when done.	6
---	---	---

## List of Tables

1	Realization milestones	4
2	Planned and actual delivery dates	5

# **1 Introduction**

## **1.1 Identification (D)**

This document is the thesis of the project ‘Useful feedback in the Ampersand parser’. The document is the final product of the project phase 4 for Daniel S.C. Schiavini and Maarten Baertsoen, as specified in the project planning [?].

This document is part of the graduation project of the computer science bachelor at the Open Universiteit Nederland. The project ‘Useful feedback in the Ampersand parser’ has been executed in collaboration with support of the supervisor Dr. Bastiaan Heeren and examiner Prof.dr. Marko C.J.D. van Eekelen. The assignment was given by Prof.dr. Stef Joosten, who researches how to further automate the design of business processes and information systems by the development of the Ampersand project.

## **1.2 Goal of this document (M)**

The main objective of this document is to depict the project’s research objectives, process and results. This document explains thus the requirements, the design and implementation decisions taken for the development of a new Ampersand parser.

## **1.3 Document overview (D)**

Quisque ullamcorper placerat ipsum. Cras nibh. Morbi vel justo vitae lacus tincidunt ultrices. Lorem ipsum dolor sit amet, consectetur adipiscing elit. In hac habitasse platea dictumst. Integer tempus convallis augue. Etiam facilisis. Nunc elementum fermentum wisi. Aenean placerat. Ut imperdiet, enim sed gravida sollicitudin, felis odio placerat quam, ac pulvinar elit purus eget enim. Nunc vitae tortor. Proin tempus nibh sit amet nisl. Vivamus quis tortor vitae risus porta vehicula.

## 2 Planning

### 2.1 Original planning

In the original planning [?], two kinds of deadlines have been identified: development iterations and project phases. The project phase deliveries were scheduled as follows:

1. Phase 2 - Task allocation and Project plan – 2014-11-13
  - a) Delivery of the detailed project plan
  - b) Detailed allocation of tasks within the project team
2. Phase 3a - Domains & Techniques – 2014-12-17
  - a) Delivery of scientific article by Daniel Schiavini
  - b) Delivery of scientific article by Maarten Baertsoen
3. Phase 3b - Research context
  - a) Detailed report of the ‘research context’ – 2015-04-29
4. Phase 3c - Design & implementation – Last iteration on 2015-04-08 (see below)
  - a) Analysis & design documents
  - b) Test report
  - c) Source code
5. Phase 3d - Project documentation – 2015-05-04
  - a) Project documentation document
6. Phase 4 - Project closure and final project presentation
  - a) Project essay – 2015-05-20
  - b) Project presentation – date to be jointly determined, final due date 29/05/2014

Besides, the iteration deliveries were planned on the following dates:

Date	Deliverable (s)
2015-02-04	Delivery iteration 1
2015-02-25	Delivery iteration 2
2015-03-18	Delivery iteration 3
2015-04-08	Delivery iteration 4

Table 1: Realization milestones

### 2.2 Planning evaluation

Just after delivering the project planning, one thing was clear for us: we planned too much. During the planning phase, we took both too long to deliver the document, but we also spent too many hours doing so. We also promised a more formal approach than it was requested by the customer and supervisor.

Happily though, we had kept a good track of the time spent in the project from the beginning

on. Although we spent almost 150 hours in the planning and preparation phase (expected: 40 hours), we then had gathered so much information about the project, that we could immediately begin with the implementation.

The planned amount of 15 hours of work per week came to be too much after some changes in our personal life (e.g. new house, new work, sickness). We were hardly being able to work 10 hours per week in the project. Therefore, we could not reach most self-inflicted deadlines. In Table 2 we summarize the planned and actual delivery dates.

Planned date	Phase	Delivered on
2014-11-13	Phase 2: Project plan	2014-11-29 (+16 days)
2014-12-17	Phase 3a: Domains & Techniques	2014-12-16 (Daniel, -1 day) and 2015-02-05 (Maarten, +50 days)
2015-04-29	Phase 3b: Research context	2015-06-11 (+43 days)
2015-04-08	Phase 3c: Design & implementation	2015-06-08 (+61 days)
2015-05-04	Phase 3d: Project documentation	2015-06-08 (+35 days)
2015-05-20	Phase 4: Thesis	2015-06-16 (+27 days)
2015-05-29	Phase 4: Project presentation	2015-06-30 (+32 days)

Table 2: Planned and actual delivery dates

The delay in the planning was communicated clearly with the supervisor and customer. Since both were understanding and were not in a hurry to finish the project, just moving the deadlines was not a problem.

We had less time available than expected for the project; however, the time spent was in our opinion very fruitful and efficient. Since we believe we managed expectations well, the delay was not an issue after all. We also could not have known beforehand that our personal lives were going to change. In Figure 1 we show some relevant statistics about the time spent in the project.

Our evaluation of the planning is thus that it was well done, though extensive.

### 3 Assessment

In this section, we look backwards and explain why some decisions were taken. In 3.1 we show that we believe the new parser is an adequate improvement to Ampersand. Then, in 3.2 we focus on the approach, roles and collaboration within the team. Finally, in the sections 3.3 and 3.4, each of the project members go shortly into their experiences en learning moments.

#### 3.1 Process (M)

Morbi luctus, wisi viverra faucibus pretium, nibh est placerat odio, nec commodo wisi enim eget quam. Quisque libero justo, consectetur a, feugiat vitae, porttitor eu, libero. Suspendisse sed mauris vitae elit sollicitudin malesuada. Maecenas ultricies eros sit amet ante. Ut venenatis velit. Maecenas sed mi eget dui varius euismod. Phasellus aliquet volutpat odio. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Pellentesque sit amet pede ac sem eleifend consectetur. Nullam elementum, urna vel imperdiet sodales, elit ipsum pharetra ligula, ac pretium ante justo a nulla. Curabitur tristique arcu eu metus. Vestibulum lectus. Proin mauris. Proin eu nunc eu urna hendrerit faucibus. Aliquam auctor, pede consequat laoreet varius, eros tellus scelerisque quam, pellentesque hendrerit ipsum dolor sed augue.

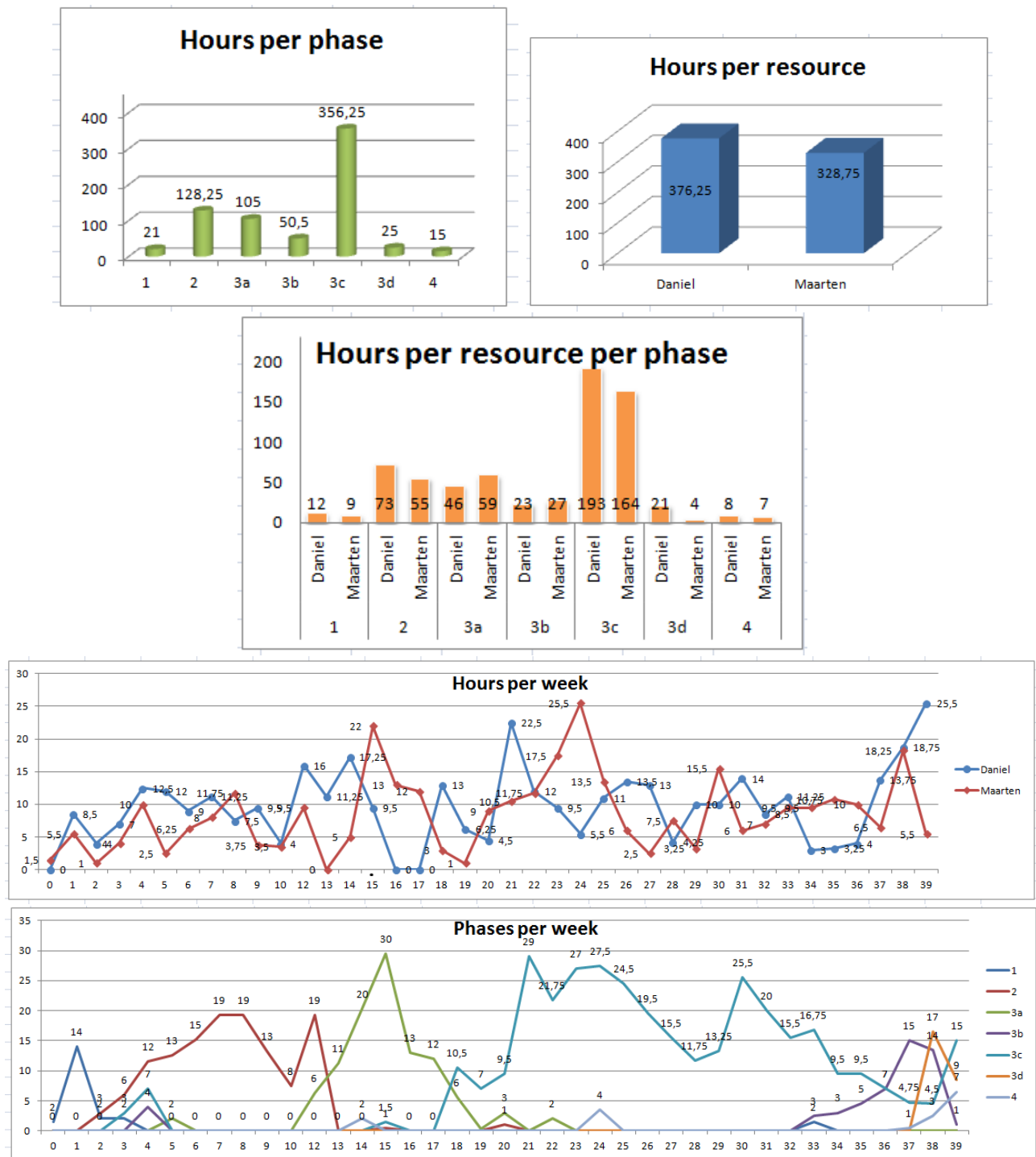


Figure 1: Some relevant statistics about the time spent in the project. TODO: Update these figures when done.

Nulla nec lacus.

### 3.2 Approach (M)

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Donec odio elit, dictum in, hendrerit sit amet, egestas sed, leo. Praesent feugiat sapien aliquet odio. Integer vitae justo. Aliquam vestibulum fringilla lorem. Sed neque lectus, consectetur

at, consecetuer sed, eleifend ac, lectus. Nulla facilisi. Pellentesque eget lectus. Proin eu metus. Sed porttitor. In hac habitasse platea dictumst. Suspendisse eu lectus. Ut mi mi, lacinia sit amet, placerat et, mollis vitae, dui. Sed ante tellus, tristique ut, iaculis eu, malesuada ac, dui. Mauris nibh leo, facilisis non, adipiscing quis, ultrices a, dui.

### 3.3 Report: Daniel S. C. Schiavini (D)

Sed commodo posuere pede. Mauris ut est. Ut quis purus. Sed ac odio. Sed vehicula hendrerit sem. Duis non odio. Morbi ut dui. Sed accumsan risus eget odio. In hac habitasse platea dictumst. Pellentesque non elit. Fusce sed justo eu urna porta tincidunt. Mauris felis odio, sollicitudin sed, volutpat a, ornare ac, erat. Morbi quis dolor. Donec pellentesque, erat ac sagittis semper, nunc dui lobortis purus, quis congue purus metus ultricies tellus. Proin et quam. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos hymenaeos. Praesent sapien turpis, fermentum vel, eleifend faucibus, vehicula eu, lacus.

(M)

### 3.4 Report: Maarten Baertsoen (M)

Suspendisse vel felis. Ut lorem lorem, interdum eu, tincidunt sit amet, laoreet vitae, arcu. Aenean faucibus pede eu ante. Praesent enim elit, rutrum at, molestie non, nonummy vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.

## 4 Conclusion and next steps (aanzet D)

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Donec odio elit, dictum in, hendrerit sit amet, egestas sed, leo. Praesent feugiat sapien aliquet odio. Integer vitae justo. Aliquam vestibulum fringilla lorem. Sed neque lectus, consecetuer at, consecetuer sed, eleifend ac, lectus. Nulla facilisi. Pellentesque eget lectus. Proin eu metus. Sed porttitor. In hac habitasse platea dictumst. Suspendisse eu lectus. Ut mi mi, lacinia sit amet, placerat et, mollis vitae, dui. Sed ante tellus, tristique ut, iaculis eu, malesuada ac, dui. Mauris nibh leo, facilisis non, adipiscing quis, ultrices a, dui.





## References

### Academic references

### Other references