

DP2 2023-2024
Planning and progress report D02

Acme Software Factory



Repository: <https://github.com/rafcasceb/Acme-SF-D02>

Group members:

- | | |
|-------------------------------|----------------------|
| • Castillo Cebolla, Rafael | rafcasceb@alum.us.es |
| • Flores de Francisco, Daniel | danflode@alum.us.es |
| • Heras Pérez, Raúl | rauherper@alum.us.es |
| • Mellado Díaz, Luis | luimeldia@alum.us.es |
| • Vento Conesa, Adriana | adrvencon@alum.us.es |

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Executive summary

In this report we will document the planning and the progress for the group tasks of the second delivery of the project. Cost estimation will be included.

Revision Table

Date	Version	Description of the changes	Sprint
10/03/2024	1.0	<ul style="list-style-type: none">• Executive summary• Introduction• Content• Actual time and comparison• Final screenshots• Conclusion• Bibliography	2

Introduction

The second delivery comprises seventeen main tasks, with five of which categorized as optional. Two of these seventeen were for initial setup, seven entailed coding entities and forms, five were for populating with sample data, one was for creating a UML diagram and the subsequent two, were for writing reports.

For each main task, a QA task is generated to accept it. If the result is negative, a review task will be created to solve the found issues.

In this group report we will also consider class attendance hours and meetings.

The team has decided to keep a GitHub project exclusively for the group tasks, so we will not see tasks for the individual delivery in the screenshots.

The content of this report is organized in two chapters: the planning chapter and the progress chapter.

The planning chapter includes:

- A listing with the tasks that have been performed to fulfil the requirements, for each task, providing the title, succinct description, assignee and role/s, planned time, and actual time.
- Some screenshots of different moments of the delivery development.
- A budget with the total estimated cost required to carry the previous tasks out. This includes the number of estimated hours (with details per role), the personnel cost (with details per role), the amortization cost, and the totals.

The progress chapter includes:

- My progress record, including an analysis of my performance indicators.
- A succinct description of the arisen conflicts and how I have addressed them.
- A comparison between the cost estimated in the previous planning and the real cost after finishing the deliverable. This includes the number of hours spent (with details per role), the personnel cost (with details per role), the amortization cost, and the totals.

Contents

Planning

Listing by tasks

Tasks	Description	Assignees	Roles	Planned hours	Actual hours
Analysis	Analyse requirements and generate tasks	Rafael Daniel Raúl Luis Adriana	Analyst	1h (each)	54 min (each)
Pre G00-04	Modify name of project.	Daniel	Developer	15 min	7 min
Pre G00-03	Create tasks.	Rafael	Manager	25 min	15 min
G03	Claim entity.	Adriana	Developer	1 h 45 min	2 h 7min
QA G03	QA for G03.	Rafael	Tester	15 min	6 min
G04	Objective entity.	Daniel	Developer	1 h 45 min	2 h 44 min
QA G04	QA for G04.	Raúl	Tester	15 min	5 min
G05	Risk entity.	Rafael	Developer	1 h 45 min	1 h 12 min
QA G05	QA for G05.	Luis	Tester	15 min	15 min
R G05	Review for G05.	Rafael	Developer	-	10 min
G06	Notice entity.	Raúl	Developer	1 h 45 min	56 min
QA G06	QA for G06.	Adriana	Tester	15 min	7 min
G07	Banner entity.	Luis	Developer	1 h 45 min	2 h 29 min
QA G07	QA for G07.	Rafael	Tester	15 min	17 min
R G07	Review for G07.	Luis	Developer	-	13 min
G08-01	Sample data of claim.	Adriana	Developer	2 h	2 h 43 min
QA G08-01	QA of G08-01.	Daniel	Tester	15 min	10 min
G08-02	Sample data of objective and initial and sample data of administrators.	Daniel	Developer	2 h	1 h 41 min
QA G08-02	QA of G08-02.	Raúl	Tester	15 min	5 min
G08-03	Sample data of risk.	Rafael	Developer	2 h	3 h 07 min
QA G08-03	QA of G08-03.	Luis	Tester	15 min	6 min
G08-04	Sample data of notice.	Raúl	Developer	2 h	4 h 30 min
QA G08-04	QA of G08-04.	Luis	Tester	15 min	5 min
G08-05	Sample data of banner.	Luis	Developer	2 h	3 h 23 min
QA G08-05	QA of G08-05.	Raúl	Tester	15 min	5 min
G21	Money system configuration.	Adriana	Developer	1 h.	38 min
QA G21	QA of G21.	Rafael	Tester	15 min	23 min
R G21	Review of G21.	Adriana	Developer	-	7 min
G22	Administrator dashboard.	Daniel	Developer	2 h	27 min
QA G22	QA of G22.	Rafael	Tester	15 min	22 min
G23	Analysis report.	Raúl	Analyst	1 h 30 min	40 min
QA G23	QA of G23	Adriana	Tester	15 min	24 min
G24	Planning and progress report.	Rafael	Manager	2 h	2h 58 min
QA G24	QA of G24.	Daniel	Tester	15 min	10 min
G25	UML diagram.	Luis	Developer	1 h 30 min	5 h 2 min
QA G25	QA of G25.	Adriana	Tester	15 min	10 min

Class attendance S01	Class attendance S01.	Rafael	All	9 h 10 min	9 h 10 min
Class attendance S02	Class attendance S02.	Daniel	All	9 h 10 min	9 h 10 min
Class attendance S03	Class attendance S03.	Raúl	All	9 h 10 min	9 h 10 min
Class attendance S04	Class attendance S04.	Luis	All	9 h 10 min	9 h 10 min
Class attendance S05	Class attendance S05.	Adriana	All	9 h 10 min	9 h 10 min
D02 deployment	Delivery (deployment).	Raúl	Deployer	10 min	10 min
QA D02 deployment	QA of D02 deployment	Luis	Tester	5 min	5 min
Meeting: 08/03/24	Pre-Follow up meeting 23/02/2024.	Rafael Daniel Raúl Luis Adriana	All	-	1 h 24 min (each)
General management	General management.	Rafael	Manager	2 h 30 min.	2 h 24 min

Screenshots

1. Initial state of tasks

The screenshot displays the Acme Software Factory Kanban board. The board is organized into four columns: **Todo** (9/30, Estimate: 0), **In Progress** (9/10, Estimate: 0), **Pending Review** (2, Estimate: 0), and **Done** (33, Estimate: 10). Each column contains a list of tasks with their respective IDs, descriptions, and priority levels (P0, P1, P2).

- Todo Column:**
 - Acme-SF-D01 #87: Task G08-01: Initial data of claim. (P0)
 - Acme-SF-D01 #88: Task G08-03: Initial data of risk. (P0)
 - Acme-SF-D01 #89: Extra Task G21: Money system configuration. (P1)
 - Acme-SF-D01 #90: Extra Task G23: Analysis report. (P1)
- In Progress Column:**
 - Acme-SF-D01 #83: Pre G00-03: Create tasks. (P0)
 - Acme-SF-D01 #86: Task G06: Notice Entity. (P0)
 - Acme-SF-D01 #91: Task G04: Objective Entity. (P0)
 - Acme-SF-D01 #115: Review G07: Banner Entity. (P0)
- Pending Review Column:**
 - Acme-SF-D01 #88: Task G07: Banner Entity. (P0)
 - Acme-SF-D01 #108: QA G07: Banner Entity. (P2)
- Done Column:**
 - Acme-SF-D01 #1: Task G02: Write chartering report. (P0)
 - Acme-SF-D01 #2: Task G01-01: Set pom and application.properties name. (P0)
 - Acme-SF-D01 #3: Task G01-02: Change banner, logo and icon. (P0)
 - Acme-SF-D01 #4: Task G01-03: Grasp the Fragments. (P0)

The board also includes a search bar at the top, a filter dropdown, and a 'Filter by keyword or by field' input. The 'Add item' button is visible at the bottom of each column.

2. Intermediate state of tasks

The screenshot shows a Kanban board for 'Acme Software Factory' with four columns: 'Todo', 'In Progress', 'Pending Review', and 'Done'. The 'Todo' column has 5 items, 'In Progress' has 8, 'Pending Review' has 1, and 'Done' has 52. Each item is a task card with a title, a status icon, and a priority level (P1, P2, or P0). The 'In Progress' column is the most active, with tasks like 'Task G08-03: Sample data of risk.' and 'Extra Task G25: UML domain model.'.

Column	Count	Estimate	Items	
Todo	5	30	0	Acme-SF-D01 #90: Extra Task G23: Analysis report. (P1) Acme-SF-D01 #204: QA G08-04: Sample data of notice. (P2) Acme-SF-D01 #95: D02 Meeting: 08/03/24 Pre-Follow up meeting. Draft: QA G08-03: Sample data of risk.
In Progress	8	10	0	Acme-SF-D01 #98: Task G08-03: Sample data of risk. (P0) Acme-SF-D01 #94: Extra Task G25: UML domain model. (P1) Acme-SF-D01 #93: Extra Task G24: Planning and Progress Report. (P1) Acme-SF-D01 #82: D02 Class Attendance S05.
Pending Review	1	0	0	Acme-SF-D01 #133: Task G08-04: Sample data of notice. (P0)
Done	52	10	0	Acme-SF-D01 #1: Task G02: Write chartering report. (P0) Acme-SF-D01 #3: Task G01-02: Change banner, logo and icon. (P0) Acme-SF-D01 #4: Task G01-03: Grasp the Fragments. (P0) Acme-SF-D01 #10: Pre G00-01: Initialize Repository. (P0)

3. Final state of tasks

The screenshot shows the same Kanban board as above, but in its final state. The 'Todo' column is empty, and the 'In Progress' column is also empty. The 'Pending Review' column is empty. The 'Done' column now contains 68 items, with an estimate of 10. The items in 'Done' are the same as in the previous state, plus the 'Pre G00-01: Initialize Repository' task.

Column	Count	Estimate	Items	
Todo	0	30	0	
In Progress	0	10	0	
Pending Review	0	0	0	
Done	68	10	0	Acme-SF-D01 #1: Task G02: Write chartering report. (P0) Acme-SF-D01 #3: Task G01-02: Change banner, logo and icon. (P0) Acme-SF-D01 #4: Task G01-03: Grasp the Fragments. (P0) Acme-SF-D01 #10: Pre G00-01: Initialize Repository. (P0)

Planned budget per role

We will count the time the manager would spend in general management.

The class attendance hours will be equally distributed among all roles but deployer. This will mean an additional 11 hours and 27 minutes for each role but deployer.

Role	Planned time	Personnel costs (€/h)	Total cost (€)
Manager	16 h 27 min	30	493.50
Analyst	17 h 57 min	30	538.50
Developer	42 h 12 min	20	844.00
Tester	15 h 37 min	20	312.34
Deployer	10 min	20	3.33
TOTAL			2191.67

To calculate the amortization, we will consider a useful life of three years and a total equipment value of 4800 €.

$$\begin{aligned}\text{Amortization} &= (\text{equipment value} + \text{residual value}) / \text{useful life} = \\ &= (4800 - 0.35 \cdot 4800) / 3 = 3120 / 3 = 1040 \text{ €}\end{aligned}$$

Without sale expectancy, the residual value would be 0 and the amortization, 1600 €.

The monthly amortization considering sale expectancy plus the sprint personnel cost would sum up to 2278.34 €.

Progress

Actual budget

We will count the time the manager has spent in general management.

The class attendance and meeting hours will be equally distributed among all roles but deployer. This will mean an additional 13 hours and 13 minutes for each role but deployer.

Role	Actual time	Personnel costs (€/h)	Total cost (€)
Manager	18 h 50 min	30	565.00
Analyst	17 h 43 min	30	531.50
Developer	46 h 59 min	20	839.67
Tester	15 h 58 min	20	319.33
Deployer	10 min	20	3.33
TOTAL			2258.83

To calculate the amortization, we will consider a useful life of three years and a total equipment value of 4800 €.

$$\begin{aligned}\text{Amortization} &= (\text{equipment value} + \text{residual value}) / \text{useful life} = \\ &= (4800 - 0.35 \cdot 4800) / 3 = 3120 / 3 = 1040 \text{ €}\end{aligned}$$

Without sale expectancy, the residual value would be 0 and the amortization, 1600 €.

The monthly amortization considering sale expectancy plus the sprint personnel cost would sum up to 2345.50 €.

Budget comparison

Role	Planned time	Actual time	Time difference	Planned cost (€)	Actual cost (€)	Difference of cost (€)	Planned amortization (€)	Actual amortization (€)	Amortization difference (€)
Manager	16 h 27 min	18 h 50 min	+ 2 h 23 min	493.50	565.00	+ 71.50	1040.00	1040.00	1040.00
Analyst	17 h 57 min	17 h 43 min	- 16 min	538.50	531.50	- 7.00			
Developer	42 h 12 min	46 h 59 min	- 43 min	844.00	839.67	- 4.33			
Tester	15 h 37 min	15 h 58 min	+ 21 min	312.34	319.33	+ 6.99			
Deployer	10 min	10 min	+ 0 h	3.33	3.33	+ 0			
TOTAL			+ 2 h 17 min			+ 67.16	1040.00	1040.00	+0

Conflicts

No real conflict has arisen in this delivery. If any, the development of the entities has taken more time than expected due to the progressive clarifications of the client about the requirements.

Progress record

Group member	Planned tasks	Completed tasks	Completeness percentage	Serious revision tasks	Performance
Rafael (S1)	8	8	100 %	0	Performing well
Daniel (S2)	6	6	100 %	0	Performing well
Raúl (S3)	6	6	100 %	0	Performing well
Luis (S4)	6	6	100 %	0	Performing well
Adriana (S5)	6	6	100 %	0	Performing well

For the main tasks we have not considered Review tasks, for they are implicit in this result table.

The results show an excellent performance by the whole group in this delivery. This analysis is based on the criteria defined in the chartering report: percentage of completed tasks and number of serious revision tasks generated. For a review task to be considered serious, it must take to be completed more than half the time the original task took.

Conclusions

It has been a very positive second delivery. After adapting to the framework and methodologies in the first delivery, this second sprint has been much more fluent. All work has been done in time and well, and we are eager to keep improving and keep aiming for the maximum grade.

Bibliography

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