DP2 2023-2024
Planning and progress report

Acme Software Factory

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GROUP C1.049

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Contenido

Executive summary

This report will outline the planning, progress, and cost estimation of the individual tasks for the first delivery.

Note that this report focuses exclusively on the individual tasks assigned to student number 4. For that reason, I will be playing all the roles, more specifically, manager, analyst, and developer. Tester and deployer roles are not implied in the initial delivery phase.

Revision Table

Date	Version	Description of the changes	Sprint
10/03/2024	1.0	- Executive summary - Introduction - Content - Actual time and comparison - Final screenshots - Conclusion - Bibliography	1

Introduction

For the second delivery Student #4 was expected to carry out four mandatory tasks and four optional assignments.

The mandatory tasks requested the creation of the new entities Sponsorship and Invoice, a Dashboard for Sponsors, and the production of sample data.

The supplementary assignments requested the addition of the role Sponsor, the production of a UML domain model and the redaction of this document and an analysis report.

The team has decided to keep a GitHub project organization exclusively for the group tasks and 5 private ones for individual assignments; that's why onlymy individual tasks will be seen in the screenshots of this report.

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

Tasks	Description	Assignees	Role	Planned hours	Actual hours
D02-02	Sponsorship Entity.	Luis Mellado Díaz	Manager, Analyst Developer and Tester.	1 h.	2h 15min.
D02-03	Invoice Entity.			1 h.	1 h 10 min.
D02-04	Sponsor Dashboard.			45 min.	45 min.
D02-05	Production of sample data.			2 h.	3h 40min
D02-13	Sponsor Role.			1h	1h 10 min.
D02-14	Production of a UML domain model.			1 h 30min.	1h 38min.
D02-15	Production of an analysis report.			1 h.	1h 38min.
D02-16	Production of a planning and progress report.			1 h 20min.	1h 30min.

Screenshots
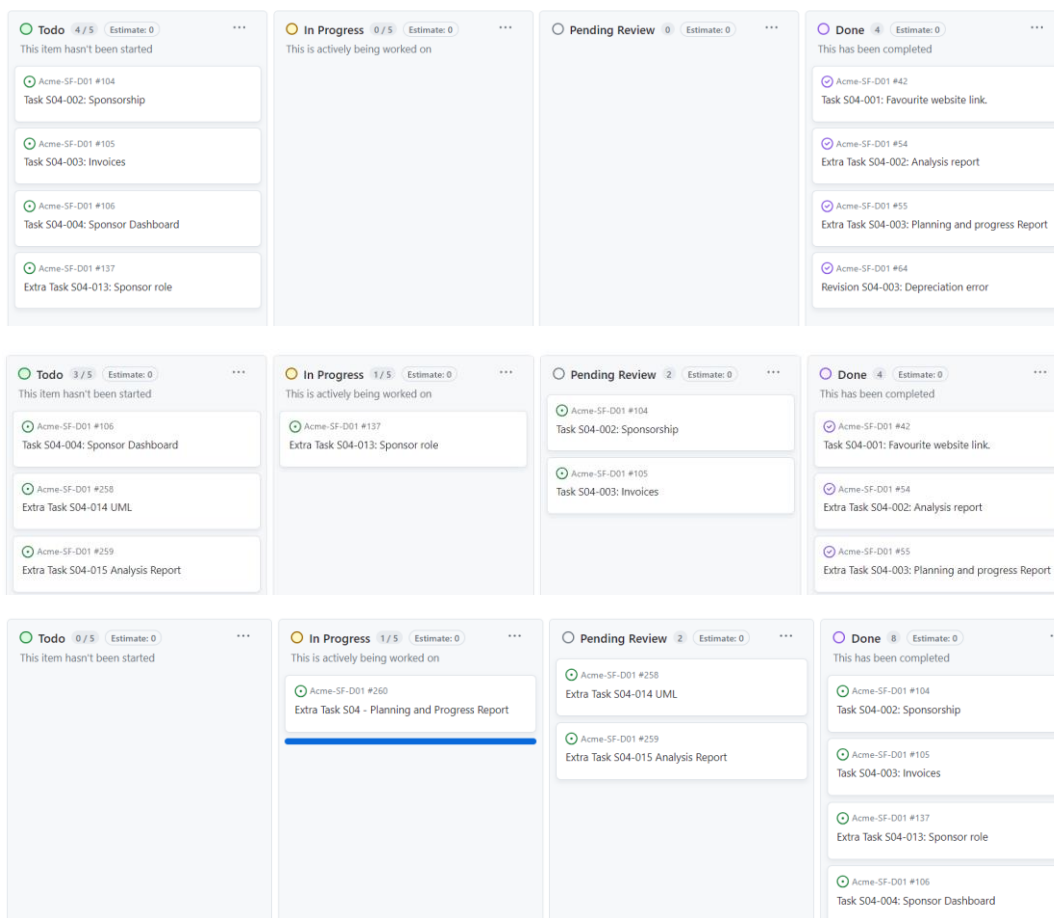
Planned budget

Role	Planned time	Personnel costs (€/h)	Total cost (€)
Manager	1 h 20 min	30	40.00
Analyst	2 h 30 min	30	75.00
Developer	3h 45 min	20	75.00
Tester	2 h	20	40.00
Deployer	0 h	20	0.00
TOTAL			230.00

$$A = \frac{\text{VALOR INICIAL} - \text{VALOR RESIDUAL}}{\text{VIDA ÚTIL}}$$

Amortization = (700 - 0.35*700) / 3 = 455 / 3 = 151.67 €

This amortization is calculated for a span of 3 years. For the equipment, only the laptop has been considered. Notice that the value of the laptop is expected to be depreciated a 35%.

Monthly amortization: 151.67 / 12 = 12.64 €

Sprint2 expected total = 230.00 + 12.64 = **242.64 €**

Progress

Actual budget

Role	Actual time	Personnel costs (€/h)	Total cost (€)
Manager	1 h 30 min	30	45.00
Analyst	3h 15 min	30	97.50
Developer	5h 20 min	20	106.60
Tester	3h 40 min	20	73.20
Deployer	0	20	0
TOTAL			**322.30**

Amortization = (700 - 0.35*700) / 3 = 455 / 3 = 151.67 €

This amortization is calculated for a span of 3 years. For the equipment, only the laptop has been considered. Notice that the value of the laptop is expected to be depreciated a 35%.

Monthly amortization: 151.67 / 12 = 12.64 €

Sprint2 total = 64.33 + 12.64 = **334.94 €**

Budget comparison

Role	Planned time	Actual time	Time difference	Planned cost (€)	Actual cost (€)	Difference of cost (€)	Planned monthly amortization (€)	Actual monthly amortization (€)	Monthly amortization difference (€)
Manager	1 h 20 min	1 h 30 min	+ 10 min	40.00	45.00	+ 5.00	12.64	12.64	+ 0
Analyst	2 h 30 min	3h 15 min	+ 45 min	75.00	97.50	+ 22.50			
Developer	3h 45 min	5h 20 min	+ 1h 35 min	75.00	106.60	+ 31.60			
Tester	2 h	3h 40 min	+ 1 h 40 min	40.00	73.20	+ 33.20			
Deployer	0 h	0	+ 0 h	0.00	0.00	+ 0.00			
TOTAL			+ 4h 10min			+ 92.30			+0

Sprint2 difference = 334.94 - 242.64 = 92.30 €

Conflicts

This planning and progress report reflects a poor time estimation and demands a better planning.

Notice that all tasks took much longer than what it was expected. This is due to a clear underestimation of the necessary effort. On top of that, every assignment required fixes and changes after the follow up sessions. Thus, for the following planning and progress reports the time to fix errors after the follow up sessions must be considered.

On the other hand, it is true that the requirements for delivery 2 were more complex and required some analysis. Things that were took for granted ended up needing rework.

Progress record

Luis Mellado Díaz – Student #4, at 10/03/2024.
Let us analyze my individual tasks based on the performance metrics defined in the group charting report.

Clarification: It must be noted that since the same person plays all roles, it would not have been any practical to create an analysis (QA) after the completion of each task to then be reviewed by the same person again, something that must have been performed before deeming it done in first place. However, if after considering a task finished a mistake is found, a QA task will be carried out to solve the problem.

- Performance percentage: Performance = CompletedTasks / TotalTasks * 100 = (8/8)*100 = 100% > 70% -> **Great Performance**
- Number of revision tasks: 4 revision task.
  - D02-02: 45 min out of 2 h 15min -> 33.33 %
  - D02-03: 45 min out of 1 h 10 min -> 64.28 % > 50 % -> **Serious revision**
  - D02-04: 10 min out of 45 min -> 22.22 %
  - D02-05: 2 h out of 3h 40min -> 54.54 % > 50 % -> **Serious revision**

  Serious revisions/Total tasks * 100 = 2/8 * 100 = 25% > 20% -> **Poor performance**

Conclusions

To sum up, all tasks were completed on schedule, however the time estimation was quite unprecise. It is a good idea to consider the time to apply the advice given by the professor in the follow up sessions and give nothing for granted until it is confirmed by the client.

Bibliography

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