












Sprint retrospective

Team 4

PROCESS

OVERVIEW - our stories and tasks

 As a customer I want to get a ticket so that I can request a service	SG-7 ↑ 5
 As a manager I want to define request types for customers	SG-2 ↑ 5
 define system architecture, server APIs	SG-13 ↑
 front-end create "customer ticket request page"	SG-14 ↑
 front-end create "manager system configuration page"	SG-17 ↑
 db create DAO interface (ticket, parameters_configuration)	SG-15 ↑
 back-end ticket generation logic	SG-18 ↑
 back-end "change request types configuration" logic	SG-21 ↑
 testing ticket generation	SG-19 ↑
 testing "define request types configuration" from the manager board	SG-20 ↑
 learning automated testing tools	SG-22 ↑

MACRO STATISTICS

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Stories committed: 2

Stories done: 2

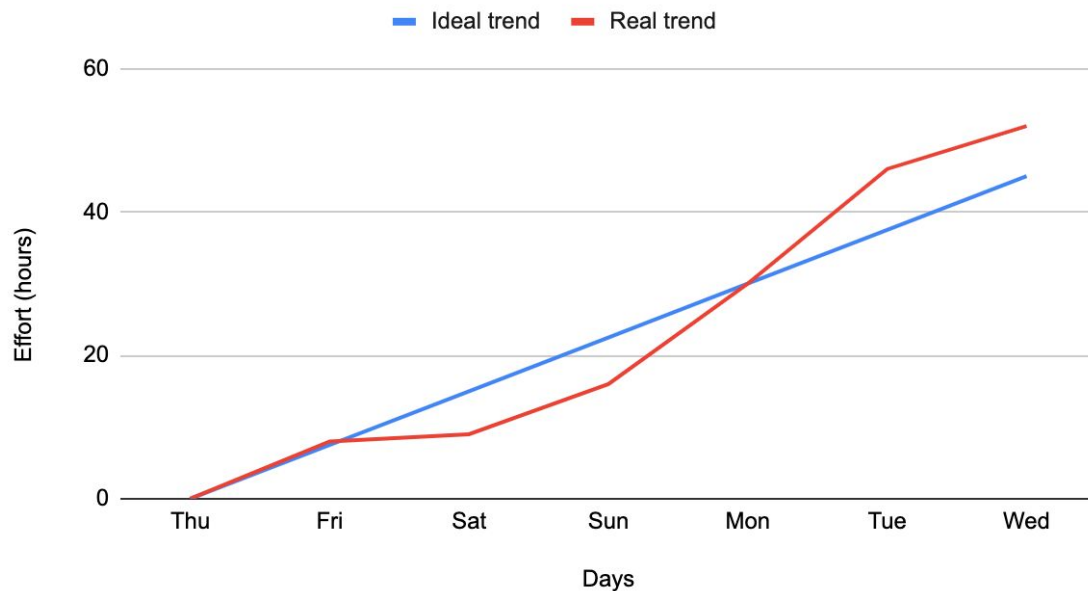
Total points committed: 10

Total points done: 10

Hours planned: 45

Hours spent: 52

Burn-up chart



DETAILED STATISTICS

ID story	Points	Task ID	Total hours estimated	Total hours spent
SG-2	5	–	13.5	19.25
		SG-15 *	3	3.25
		SG-17	3	8
		SG-20	6	5.5
		SG-21	1.5	2.5
SG-7	5	–	13.5	14.75
		SG-14	3	3.5
		SG-15 *	3	3.25
		SG-18	1.5	3.5
		SG-19	6	4.5
none	–	–	18	17
		SG-13	12	8
		SG-22	6	9
total	10	–	45	52

* horizontal task

ESTIMATION ERRORS

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SG-15:

- * underestimated the work/time needed to lay down the database system;

SG-17:

- * a lot of more time was needed to review on "how to do things" in React;
- * the workload related to this task was bigger than expected;

SG-18:

- * more time was needed to review the inner workings of express;

ESTIMATION ERRORS

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SG-19:

- * estimation took in account all the group members while in practice only a few of them were tasked to do the job;

SG-22:

- * lack of technical knowledge about testing frameworks caused the team members to spend a lot of time in the learning phase;

QUALITY

UNIT TESTING

DAO MODULE:

Total hours estimated: 12

Total hours spent: 13

Number of automated tests: 14

Coverage:

File	% Stmts	% Branch	% Funcs	% Lines
All files	68.98	44.44	79.31	69.95
counter.js	100	0	100	100
dao.js	76.85	55.56	89.74	77.57
prepare_db.js	43.1	37.5	42.86	43.64
service.js	100	0	100	100
ticket.js	100	0	100	100

information from
nyc and mocha

SYSTEM TESTING

API testing (with postman):

Total hours estimated: 6

Total hours spent: 6

Number of tests: 10

CODE REVIEW

Total hours estimated: *not estimated*

Total hours spent: 3

The code review has been necessary to understand more in deep other teammates' code and integrate tasks.

ASSESSMENT

LESSONS LEARNED

POSITIVE

- * Dedicate part of the allocated time to system design it proved to be good choice
- * Dividing the team in smaller groups per task lead to a higher productivity

NEGATIVE

- * It is better to overestimate than underestimate the amount of work
- * Once an interface has been defined, it must not be changed it prior a discussion with the other team members (or at least the people affected by it)

IMPROVEMENTS

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- * Discuss before making any breaking changes with your teammates (or at least the people affected by it)
- * Reflect more in depth about the workload needed by a task. It is better to divide a task in subtasks if the estimation it is not clear or well defined.
- * Define a coherent and a systematic approach for managing the project folder structure

FINAL THOUGHTS

As a team, we are proud on how well we adapted to unforeseen challenges as we progressively developed our system.

Finally, we are happy that we managed to complete all the stories that we have selected.

Practice is harder than theory