

## **SPRINT ANALYSIS**

### **LEVEL WE WANT TO ACHIEVE: 10**

We'll proceed now to describe our work during this sprint. Before going ahead, the pairs we set up in this sprint were the following:

- Pair 1: Manuel Cañizares Juan and Iván Menacho Gallardo
- Pair 2: Diana Buksa and Yoana Dimitrova Penkova
- "Pair" 3: Álvaro Rubia Tapia

The analysis has been done by pairs and all of us included some observations of the team work in general.

### **PAIR 1:**

In order to divide the job, Manuel and Ivan split the job in half, Manuel would focus on User Stories regarding Medicine and Iván would work in the ones that imply Medical Record.

As the creation of Medical Record depends on Medicine, Manuel started working in his US first, having he finished US-001 and US-002, Ivan started working in his own and from here onwards they worked more or less simultaneously.

Regarding conflicts and getting stuck, our firsts US took more than they should have because we needed to get used to the new framework. Once that was archived, the work flowed faster and without many troubles. The same thing is applicable to the testing part, it was difficult to start but when the concept was understood, it became much easier.

We found the difficulty of the US somewhat unbalanced. While none of them was excessively hard, some were very easy and content-lacking whereas others were complex and could have been divided into more US.

In general, we think we did a good job. While it is true that we got stuck a couple of times, and we had to ask for advice, at the end of the day we never stopped progressing and we got the things done before our self-established timeline.

## PAIR 2:

Yoana was in charge of implementing the following user stories:

- US-020: Unregistered user can see trainers
- US-019: Administrator manages trainers
- US-013: Administrator manages vets
- US-011: Vet manages homeless pets' information

At first, she had to research a little about how the framework functions and how could she implement a functionality. She didn't dedicate specifically time to that, but rather learned it while she was implementing the user stories.

With the first three there weren't any major problems but she did have to fix them a lot after dealing with their respective tests. She found out that some of the implementation wasn't as precise as it should and did some fixes on it.

In particular, the user story US-011 was not finished until some days before the delivery because it needed all other user stories implemented in order to complete it. This story wasn't planned very well because it took more time than it should have and included more functionalities than those planned. That's something to improve in future sprints. The rest of the training duties like rehab sessions and else were planned for Diana.

Alongside these user stories, Yoana worked with Manuel to set up Travis and also, she integrated the API the whole group chose, Petfinder.

About the API, there were troubles getting the access token but after having done that it was all very intuitive. Petfinder had a really understandable documentation. That helped for sure.

Yoana did a little fix on the API integration after we had the follow-up session with the teacher on Tuesday 24th. The fix was about rearranging the entities because there was some inconsistency in what the API requests were returning.

And last but not least, we all took responsibility for the AssertJ part and divided the entities between all of us. Yoana had to generate custom assertions for Trainer and Vet. Starting with AssertJ she had some troubles with the imports and what it was generating but after fixing that, she tried the custom assertions on some of the tests and they worked perfectly fine.

In general, she thinks her work is good. Some aspects like management could be improved because the workload in the first week of the sprint was nothing like the workload in the final one. But of course, it's a new methodology that we haven't been following these years and we are not used to. With some more practice we are sure our work will be more effective and organized.

As for Diana, the most challenging part was Java itself and at first she had to make a bit of a research about it in general and specifically the syntax, before she started her parts, since she hadn't worked with Java before.

She was in charge of implementing rehabilitation part, which means that trainers will be able to add a rehabilitation session for a certain pet. Those 3 entities - visit, intervention and rehabilitation have similar concept, so it was easier to understand how it works in general. The problem she faced while implementing US-021 was that at first, the newly added rehabilitation wasn't saved in the database, and it took her the longest to understand why is it so and to fix that problem, because it didn't show up as an error.

The other implemented user story, US-022, was smaller one, therefore after US-021 it maybe did not seem to take that much time.

She still has left 3 user stories to implement, that are much smaller in amount than those first 2 she did, and the testing part.

In general, she can say that the part of the project she has done up until now took her longer than she expected, but it is normal, as it is impossible to foresee bugs and misunderstandings that may occur during the coding. She thinks that all her teammates did a really good job in their parts of the project as they did more than required, so she needs to catch up on her parts too.

**PAIR 3:**

Since all his tasks required the creation of a new entity (Intervention), he started looking for entities already created inside the code of the project.

The creation of the entity itself was not challenging, but the relation between the others required some time. That is because at first Intervention was perceived as a child of visit, but once the parent child relation was implemented every functionality regarding visit was damaged, including his teammates work. We all agreed to change this relation so it would not bug others people work and so he recreate the entity.

Although it was not efficient with time, once he finished the rest of my team had already some code running so for some tasks he just needed to copy and apply to my entity. The US-015 only required a creation function and the US-016 a listing, the US-017 a show method. US-014 was more challenging than the rest but either way he finished on schedule.

Testing was more challenging since it was the first time working with it, but as the US, some of his teammates had already implemented some code so he used it as a reference guide. Also it is worth mentioning that working online by Discord/Skype was very helpful for debugging and explaining things.

During this spring, the only step back he had was the lack of knowledge about spring boot that make him (and his team because some of them needed a few of his methods) lose time.

To achieve the maximum level, we followed the teacher's guidance and implemented custom assertions with AssertJ. Surprisingly, it took no time to be resolved. We divided the entities to create assertions for between the team, he was responsible for the Owner and Intervention entities. The only problem he encountered was an errors with the imports, but when we figured out how to solved it the job was done in less than an hour.

THE TEAM EFFORT BY TEAMMATE (IN HOURS):

Iván Menacho Gallardo	
Description	Time
US – 003 Medical Record creation	5h
US – 004 Owner sees pet’s medical record	2h
US – 005 Trainer has access to medical records	1h
US – 006 Vet sees pet’s medical record	30m
Testing	4h
AssertJ	30m
Documentation	40m

Manuel Cañizares Juan	
Description	Time
US – 001 Vet add a new medicine	6h
US – 002 Vet lists medicines	1h
US – 007 Vet prescribes medicine to a pet	3h
US – 008 Pet type’s medicine checking	45m
Testing	10h
Travis set-up	1h 30m
AssertJ	30m
Documentation	40m

Diana Buksa	
Description	Time
US – 021	12h 30m
US – 022	3h
Testing	6h
Documentation	30m

Yoana Dimitrova Penkova	
Description	Time
US – 020	1h 28m
US – 019	50m
US – 013	5h 24m
US – 011	10h 16m
Testing	26h 30m
Travis set-up	1h 30m
API Integration	7h 10m
AssertJ	2h 35m
Documentation	30m

Álvaro Rubia Tapia	
Description	Time
US – 014 Vet schedules a new intervention	3h 30m
US – 015 Vet plans interventions	10h 30m
US – 016 Owner sees interventions	4h 30m
US – 017 Owner sees vet's personal information	4h 30m
Testing	17h 30m
AssertJ	2h
Documentation	1h