DESIGN AND TESTING

Petournament group 5

Sprint Retrospective

Git HUB URL: <https://github.com/gii-is-DP2/DP2-1920-GI-05.git>

finish level: 8 points

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# Sprint 1

The first Sprint of this Project began on 26 February and ended on March 2, the main objective of this Sprint was the approach of developing a level 2 application through the Petclinic project and organizing what would be the subgroups of work during the next Sprints.

## Work organization

We had two meetings in the building CRAI Antonio de Ulloa to plan de project organization, UMls and the user stories, both were two hours long. In the first meeting we were thinking about what user stories our project could have and we managed to have a sketch of each user's history, we made the necessary number of user stories to reach a Level 8 Project and in the first meeting of Sprint 2 we reviewed the sketches.

The second meeting was to document user stories in the product backlog and work structure on the repository wiki, we decided who would be the project manager of the project, what user stories we would develop in each Sprint and how the subgroups would be organized.

## Sprint Analysis

The development of this short sprint was as estimated, we had no problems getting the user stories out and in the second meeting we finished doing the necessary documentation on the repository wiki.

#### Estimated meeting hours

|  |  |  |
| --- | --- | --- |
| Group member\User story | First Meeting | Second Meeting |
| Manuel Ales Rodríguez | 2 hours | 2 hours |
| Guillermo Garrido Jiménez | 2 hour | 2 hours |
| Joaquín González Ruíz | 2 hours | 2 hours |
| Alejandro Barranco Castro | 2 hours | 1 hour |
| Juan Manuel Varela Amaya | 2 hours | - |

# Sprint 2

As mentioned on the wiki of this Project Sprint 2 began on March 2 and ended on March 29. The level at which this application is presented is Level 2.

Our working group consists of 5 people, therefore we have divided into 2 subgroups, group one consisting of Guillermo Garrido Jiménez, Joaquín González Ruiz and Manuel Ales Rodríguez and subgroup 2 consisting of Alejandro Barranco Castro and Juan Manuel Valera Amaya.

## Work organization

Subgroup one had 6 user stories assigned, so in that subgroup each member had made 2 user stories and subgroup two had 5 user stories, where one member made 2 stories and another made 3 stories.

For the development and integration of user stories in the project, we have first developed for this sprint user stories with entities that have the fewest possible relationships with other entities, in this way we have been able to implement user stories without depending on that no other user story was finished.

When we have finished implementing the main user stories, we started to add the functionalities related to user management, then we started to do unit tests for the user stories, following the same organization as the implementation of these stories.

To manage the project's GitHUb repository, we create a develop branch and from there each integrant creates a branch with the identification "feature/user\_story\_name", when a user story is terminated a merge is done with the develop branch, the Implementation of the user management functionalities was done from the develop branch by the Project manager and tests were done from branches with the identification "feature/test\_user\_story\_number" and "feature/tests\_member\_team". When the project is finished, it merges with the master branch.

## Sprint Analysis

In the first week of March the UML diagram that we were going to use for the project was made and we started to implement and create the java domain until March 12, from that day on we started to make user stories.

At the beginning of the third week of March we had only completed user stories 1 and 2, but in that week we finished user stories 3, 4, 5, 6, 10, 12, and 14. In the last week of the sprint we ended user story 7 and 8. After implementing the user management functionalities, the sprint was completed performing unit tests of the user stories and travis implemented in the project repository.

In conclusion I think we started working on user stories a little late, however xrom the third week on we had most of the work done. In some stories of users of subgroup 1 we had to work together, but in general we have worked on an individual basis.

### Estimated hours for the completion of user stories

#### Subgrupo 1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Group member\User story | #1 | #2 | #7 | #8 | #10 | #12 | User management |
| Manuel Ales Rodríguez |  | 30 minutes | 4 hours | 3 hours |  |  |  |
| Guillermo Garrido Jiménez | 2 hour |  | 2 hours | 30 minutes | 1 hour | 1 hour | 2 hours |
| Joaquín González Ruíz | 2 hours | 1 hour |  |  |  |  |  |

#### Subgrupo 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Group member\User story | #3 | #4 | #5 | #6 | #14 |
| Alejandro Barranco Castro |  | 2 hours | 2 hours | 2 hours |  |
| Juan Manuel Varela Amaya | 3 hours |  |  |  | 3 hours |

In addition to the user stories, we have held 3 meetings in which the first 2 lasted 2 hours and the last 1 hour and a half (which were on February 27 before the sprint, March 2 and March 5).

# Sprint 3

As mentioned on the wiki of this Project Sprint 3 began on March 30 and ended on May 10. The level at which this application is presented is Level 2.

Our working group consists of 5 people, therefore we have divided into 2 subgroups, group one consisting of Guillermo Garrido Jiménez, Joaquín González Ruiz and Manuel Ales Rodríguez and subgroup 2 consisting of Alejandro Barranco Castro and Juan Manuel Valera Amaya.

## Work organization

Subgroup one had 4 user stories assigned, Guillermo Garrido did user stories 9 and 12, Manuel Ales story 14 and Joaquín González user story 17. Subgroup two had 3 user stories, where Alejandro Barranco did story 15 and Juan Manuel Varela did user stories 16 and 18.

The implementation of user stories took place in the first two weeks of Sprint, after finishing the unit tests we started doing user interface tests.

Once we finished the UI tests we did the end2end driver tests and the driver integration tests, finally in the last 2 weeks of sprinting we better ordered the user interface tests and finished the integration tests.

For this Sprint we have continued to create 'feature' branches for the implementation of user stories and 'tests' branches to add the tests. If some tests had to be fixed, 'fix' branches were created.

## Sprint analysis

The development of the work of this sprint was as follows: At first we had problems executing the user interface tests, but after doing them as the example tests we finished them quickly.

Another thing that slowed us down was also that we had to do the integration tests, through the revision classes we understood how we had to do them by adding annotations to the tests of repositories and services.

The last week of Sprint we spent fixing the Travis CI build and pointing out what improvements we can make for the next sprint:

· User interface tests should check for negative use cases.

· Try to have the work done by the stipulated dates.

· Clearly inform group members what tests they are assigned to do.

### Estimated hours for the completion of user stories

#### Subgroup 1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Group member\User story | #9 | #12 | #14 | #17 |
| Manuel Ales Rodríguez |  |  | 2 hours |  |
| Guillermo Garrido Jiménez | 1 hour | 2 hours |  |  |
| Joaquín González Ruíz |  |  |  | 1 hour |

#### Subgroup 2

|  |  |  |  |
| --- | --- | --- | --- |
| Group member\User story | #15 | #16 | #18 |
| Alejandro Barranco Castro | 2 hours |  |  |
| Juan Manuel Varela Amaya |  | 4 hours | 1 hour |

# Sprint 4

As mentioned on the wiki of this Project Sprint 4 began on May 11 and ended on Juny 5. **The level at which this application is presented is Level 2.**

As in the previous 2 sprints, the working group has been divided into 2 subgroups with the same members in each one.

## Work organization

Subgroup one had 2 user stories assigned, Manuel Ales did user stories 20 and Joaquín González user story 21. Subgroup two had 2 user stories, where Alejandro Barranco did story 19 and Juan Manuel Varela did user stories 22.

While the user stories of this Sprint were being made, Guillermo Garrido started installing Gatling to do the performance tests for the user stories that he has done in the previous Sprints.

The implementation of user stories took place in the first two weeks of Sprint, performance test development took another week, leaving the last week for profiling and refactoring the project.

Profiling was assigned to Guillermo Garrido user story 14, Joaquín Gonzalez user story 21 and Alejandro Barranco user story 1, testing each member one user story with low performance.

For the refactoring, three people were also assigned: Joaquín Gonzalez, Juan Manuel Varela and Manuel Ales, each one checking in several classes of the project that code smells had been detected and writing it in the corresponding refactoring documentation.

For this Sprint we have continued to create 'feature' branches for the implementation of user stories and 'tests' branches to add the tests.

## Sprint 4 Analysis

In this sprint we did not have so many delays, we had some doubts at the beginning of how to make a user story , but thanks to a tutorship with the teacher we solved them quickly, other problems were installing the performance testing and profiling tools for some team members, which were due to minor errors when seeing the tutorials they were solved soon.

After doing refactorings and profiling the rest of the Sprint was to make the necessary documents for this delivery and review the project tests, this time the tasks were completed on the established dates and negative case tests were added for the user interface tests.

### Estimated hours for the completion of user stories

#### Subgroup 1

##### User stories

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Row User story  Column Group member | #20 | | #21 | |
| Development | Testing | Development | Testing |
| Manuel Ales Rodríguez | 2 hours | 1 hour |  |  |
| Joaquín González Ruíz |  |  | 1 hour | 1 hour |

##### Performance testing

* Manuel Ales Rodríguez: 7 hours (4 hours creating the tests, 3 hours making the reports a testing the performance)
* Guillermo Garrido Jiménez: 8 hours (1 hours creating the tests, 7 hours making the reports a testing the performance).
* Joaquín González Ruíz: 6 hours (2 hours creating the tests, 4 hours making the reports a testing the performance).

##### Profiling

* Guillermo Garrido Jiménez: 1 hour testing the user story case and another hour documenting the results.
* Joaquín González Ruíz: 1 hour testing the user story case and another hour documenting the results.

##### Refactoring

* Manuel Ales Rodríguez:
* Joaquín González Ruíz: 2 hour 30 min (1 hour and 30 minutes looking for smelling code, 1 hour refactoring code).

#### Subgroup 2

##### User stories

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Row User story  Column Group member | #19 | | #22 | |
| Development | Testing | Development | Testing |
| Alejandro Barranco Castro |  |  | 2 hours | 3 hours |
| Juan Manuel Varela Amaya | 5’5 hours | 1 hour |  |  |

##### Performance testing

* Alejandro Barranco Castro: 7 hour 30 minutes (2 hours developing user stories, 3 hours making tests, 2 hours and 30 minutes filling reports)
* Juan Manuel Varela Amaya: 8 hours (2 hours creating the scripts, 6 hours writing the reports).

##### Profiling

* Alejandro Barranco Castro: 2 hours (making the test and filling the report of user history 1)

##### Refactoring

* Juan Manuel Varela Amaya: 2 hours (focusing the main folder).
* Manuel Alés Rodríguez: 1.5 hours (focusing in tests folders).