ESCUELA SUPERIOR

PÓLITECNICA DEL LITORAL

WORKSHOP OF ACCEPTANCE TESTS

AUTHORS:

- AGUILAR MORA OSWALDO
- BERMUDEZ MOREIRA KAREN
- BERNAL MOREIRA GUILLERMO
- ORTIZ HOLGUIN EDUARDO
- WONG PAVON HUGO

SUBJECT: ING. SOFTWARE II

TUTOR: DR. MERA CARLOS

DEADLINE: 2020/08/21

1. Abstract

This document contains the technical report corresponding to the first group workshop called **"WORKSHOP OF ACCEPTANCE TEST"** of **GROUP#4** belonging to the **SOFTWARE II ENGINEERING** course of **2020-PAO I**.

The report contains a description of the workshop, the code, the JAVA implementation and the reports.

2. Description

BDD is a way for software teams to work that closes the gap between business-people and technical people by:

- Encouraging collaboration across roles to build shared understanding of the problem to be solved.
- Working in rapid, small iterations to increase feedback and the flow of value
- Producing system documentation that is automatically checked against the system's behavior[1].

ACCEPTANCE TESTING is a level of software testing where a system is tested for acceptability. It is formal testing with respect to user needs, requirements, and business processes conducted to determine whether or not a system satisfies the acceptance criteria and to enable the user, customers or other authorized entity to determine whether or not to accept the system, and if it is acceptable for delivery [2].

The framework to write the acceptance tests is Cucumber, what use "Gherkin" language. The 10 keywords of Gherkin are: [3]:

- Feature
- Scenario
- Given
- When
- Then
- And
- But
- Scenario Outline

- Examples
- Background

3. Source Code

3.1. Repository

Github was used as a collaboration tool for the development of the workshop, the link is:

- https://github.com/leortyz/PruebasAceptacion

3.2. Development Considerations

For the development of the activity and its implementation, the following points were considered:

- **Python >= 3.7.3**
- **Behave para Python >= 1.2.6**

4. Activity Screenshots

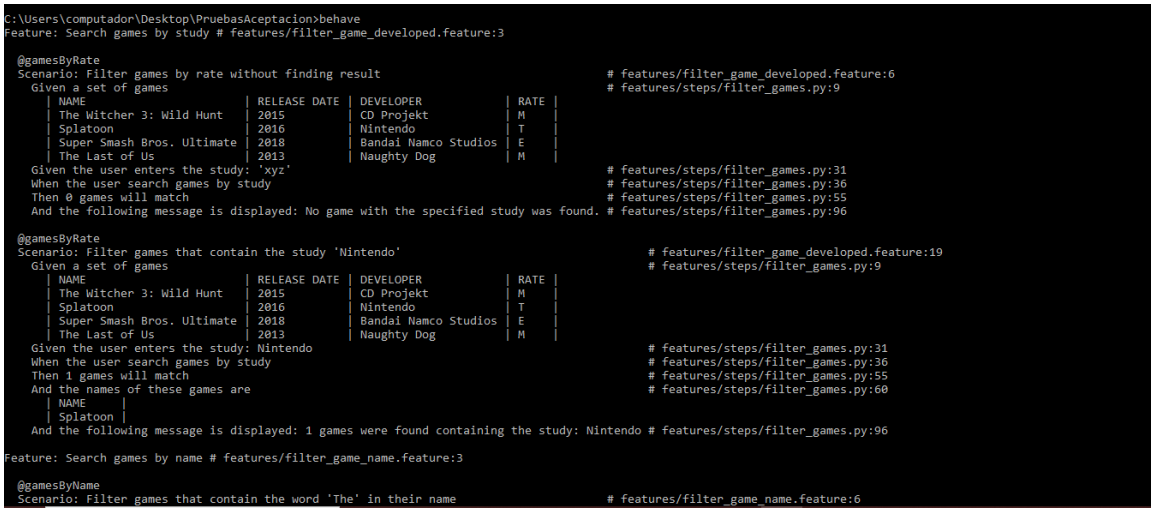

Figure 1.- Run Behave

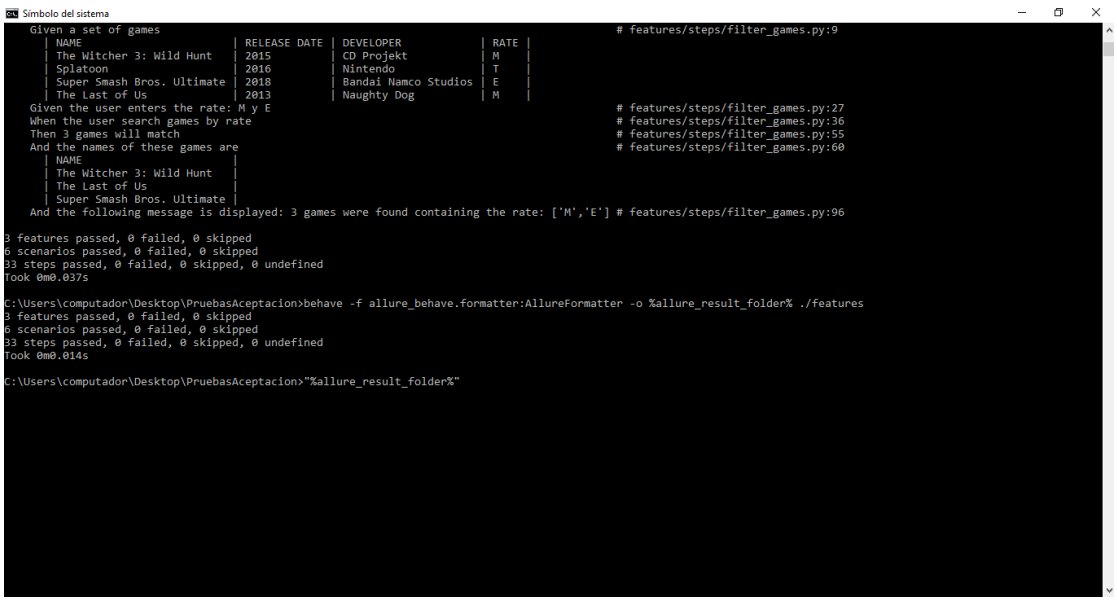

Figure 2.- Generate Report Json

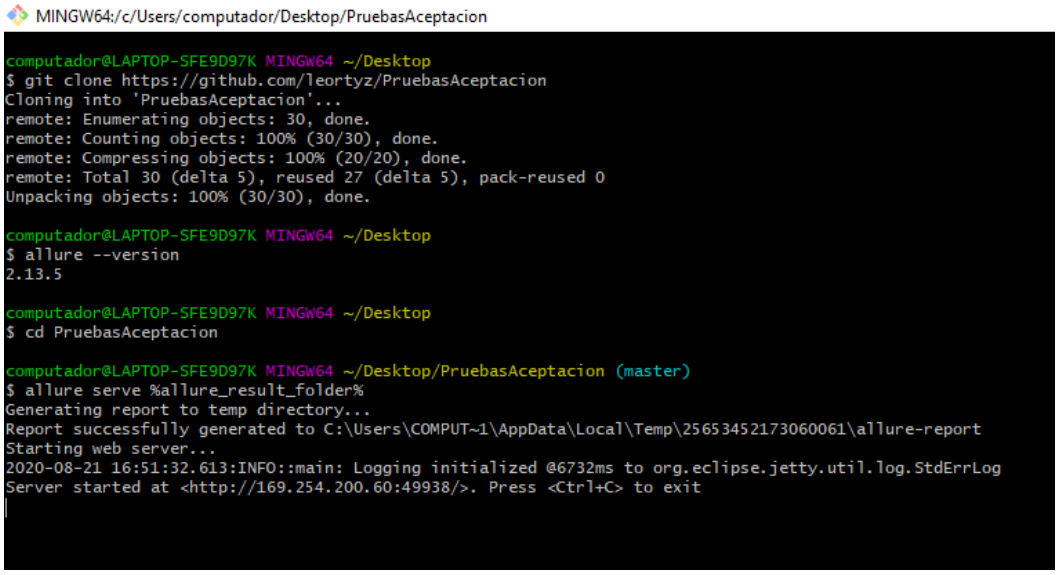

Figure 3.- Run server allure to see report

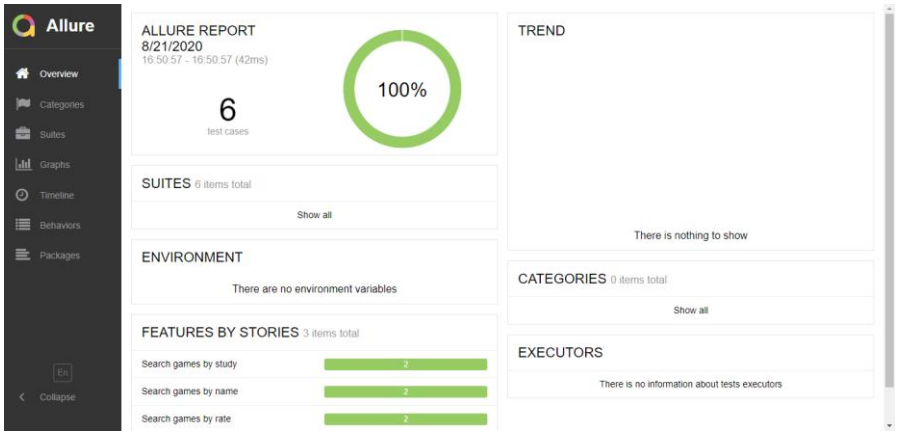

Figure 4.- Report Allure

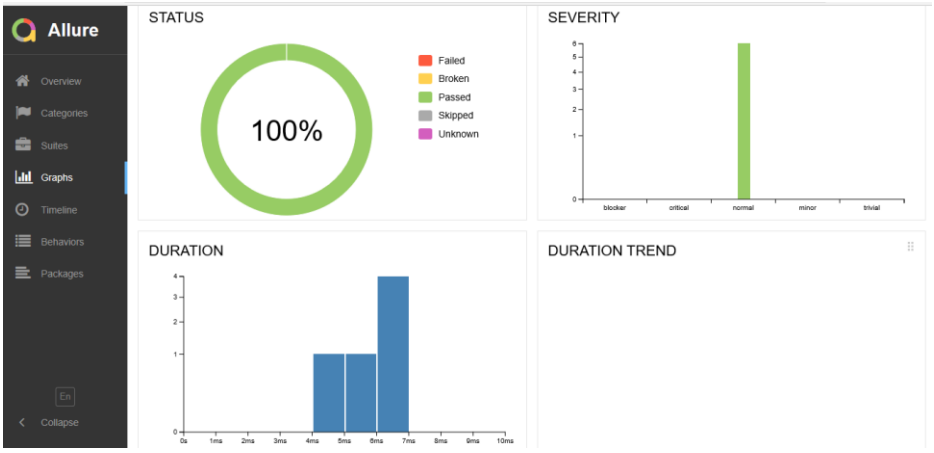

Figure 5.- Report Graph

Figure 6.- Report Timeline

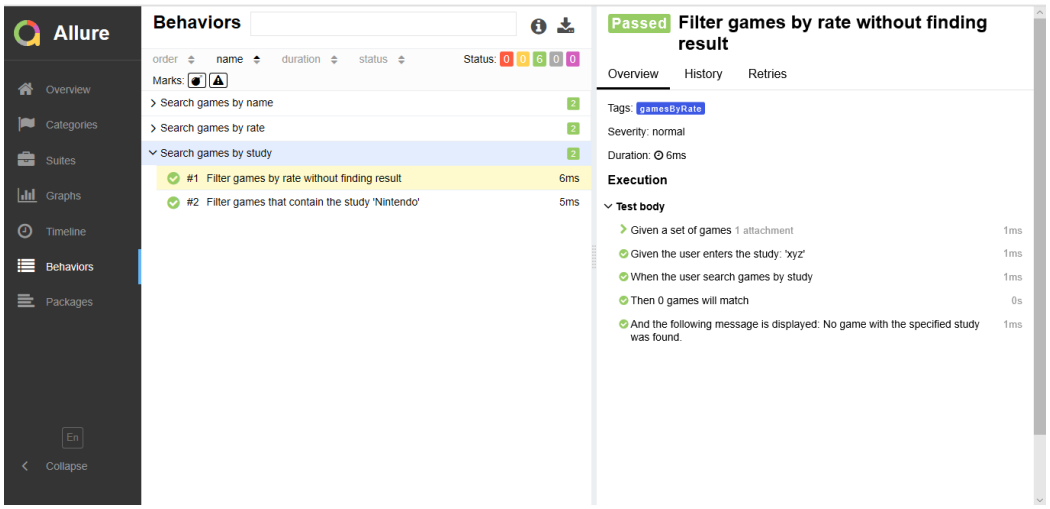

Figure 7.- Detail

5. Conclusions

- This plug-in is a useful tool to the acceptance test.
- The control and the facility to see the report is a good approach.
- Is easy to implent if you have a guide.
- Is complicated use cucumber, its easiest use allure

6. References

[1] https://cucumber.io/docs/bdd/ [Último acceso: june 2020].

[2] Software Testing Fundamentals, «Acceptance Testing,» [En línea]. Available: http://softwaretestingfundamentals.com/acceptance-testing/.

[3] R. Hewitt, «Gherkin for Business Analysts,» Modern analyst, 2017. [En línea]. Available: https://www.modernanalyst.com/Resources/Articles/tabid/115/ID/3810/Gherkin-forBusiness-Analysts.aspx. [Último acceso: 14 Marzo 2020].

[4] «Gherkin Reference,» [En línea]. Available: https://cucumber.io/docs/gherkin/reference/. [Último acceso: Marzo 2020].

[5] S. Vergara, «¿Qué es BDD (Behavior Driven Development)?,» ITDO, 18 Julio 2019. [En línea]. Available: https://www.itdo.com/blog/que-es-bdd-behavior-driven-development/. [Último acceso: 14 Marzo 2020].