ESCUELA SUPERIOR

PÓLITECNICA DEL LITORAL

Workshop: Continous

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INTRODUCTION

Continuous Integration (CI) is the practice of automating the integration of multi-contributor code changes into a single software project [1]. The CI process is made up of tools that facilitate and automate the version control of code between the different versions of it, among which we have the aforementioned version controller, a code analyzer, unit tests, integration and development tests.

Because with CI, developers check their progress in the central repository on a regular basis, carrying out different types of tests, which validate and test that their code meets coding and development standards [2]. This allows developers to identify what errors can occur in compilation and what steps to take to mitigate the error [5]

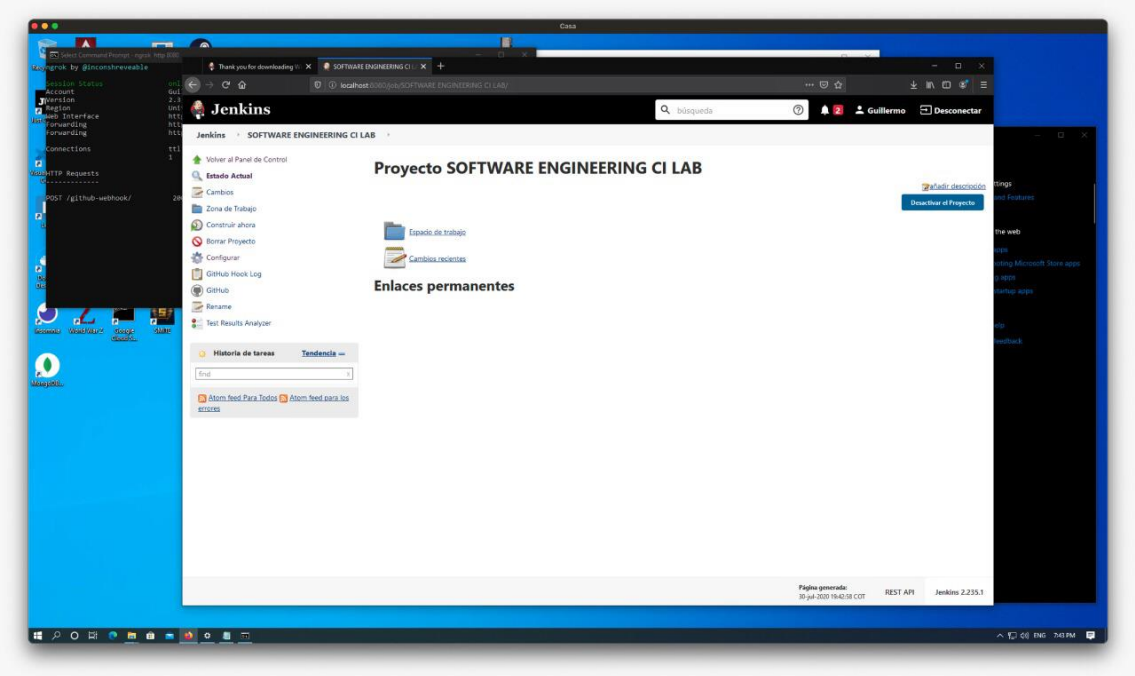
CI is recommended in projects that works on agile software development [3].

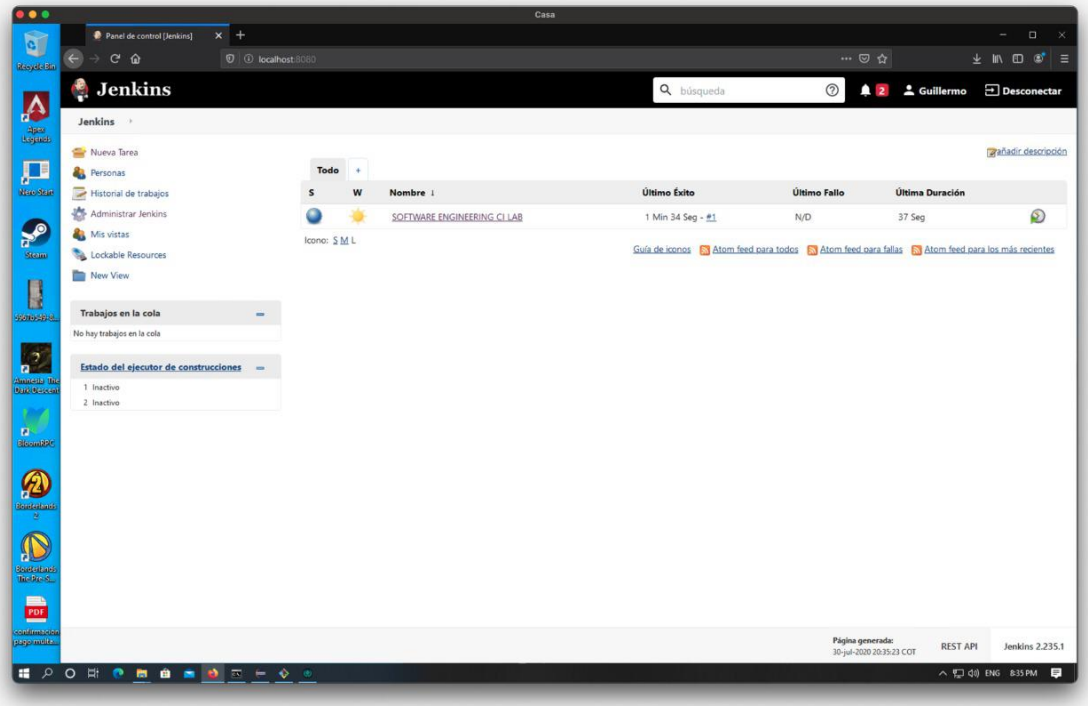
Poor performance: One advantages of practicing CI is making processes faster and more effective, not implementing it causes the opposite effect.

Flawed tests: This happens when tests are poorly written, outdated, or not suitable for a particular app. The wrong approach to testing can lead to many problems in production.

Version control: CI processes are usually created for a specific version, which could break when a new version is updated. These changes could force you to rewrite your deployment processes. It is especially painful when a new version appears during deployment, is updated, and everything starts to crash tests, deployment, and production [4].

DEVELOPMENT

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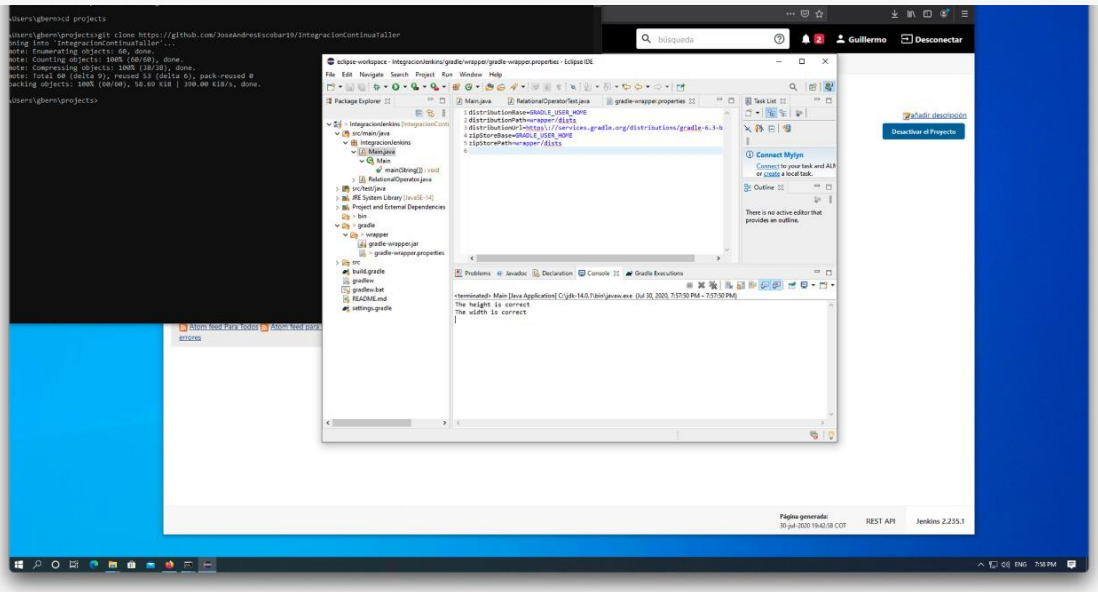
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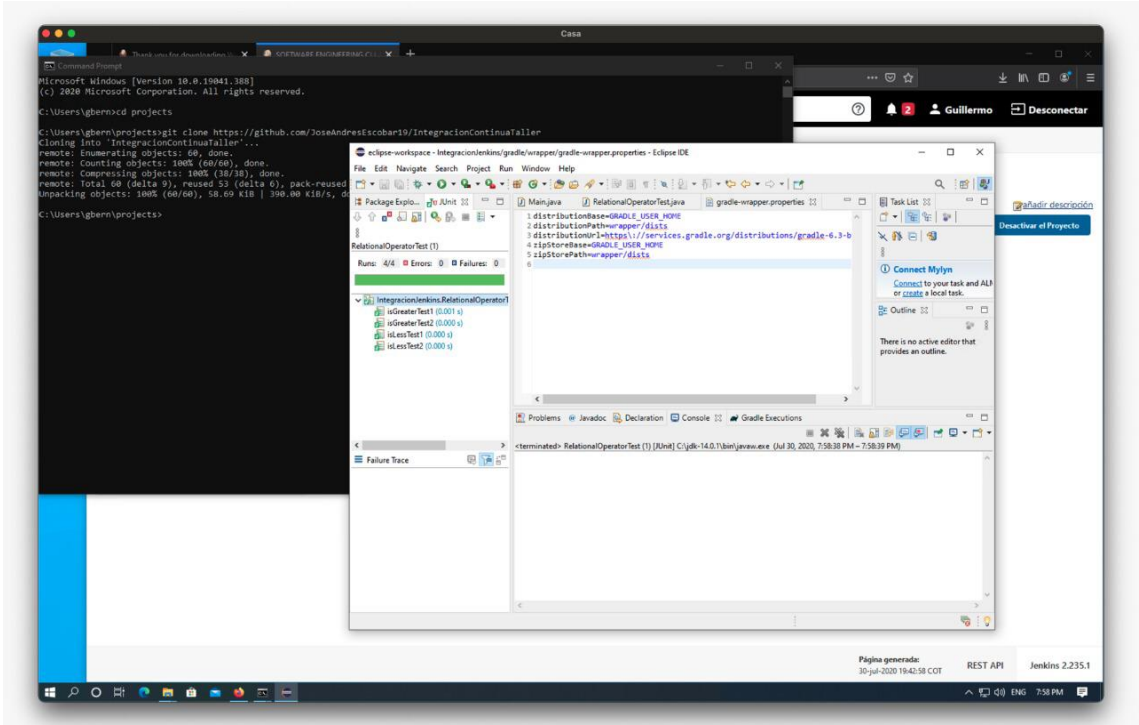
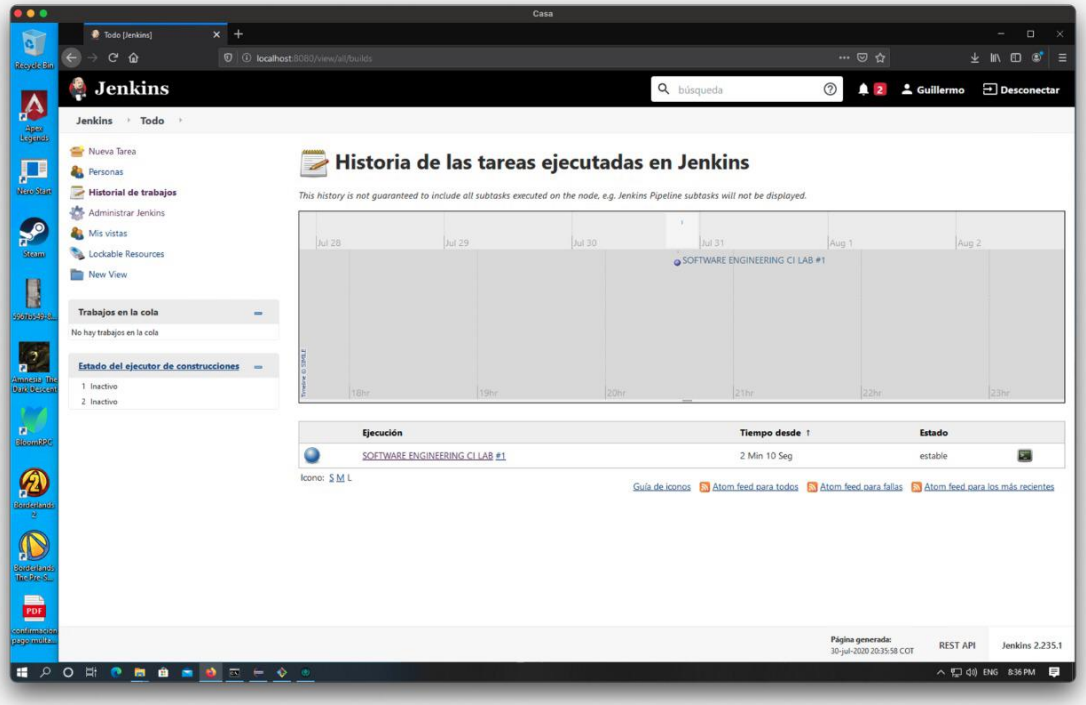
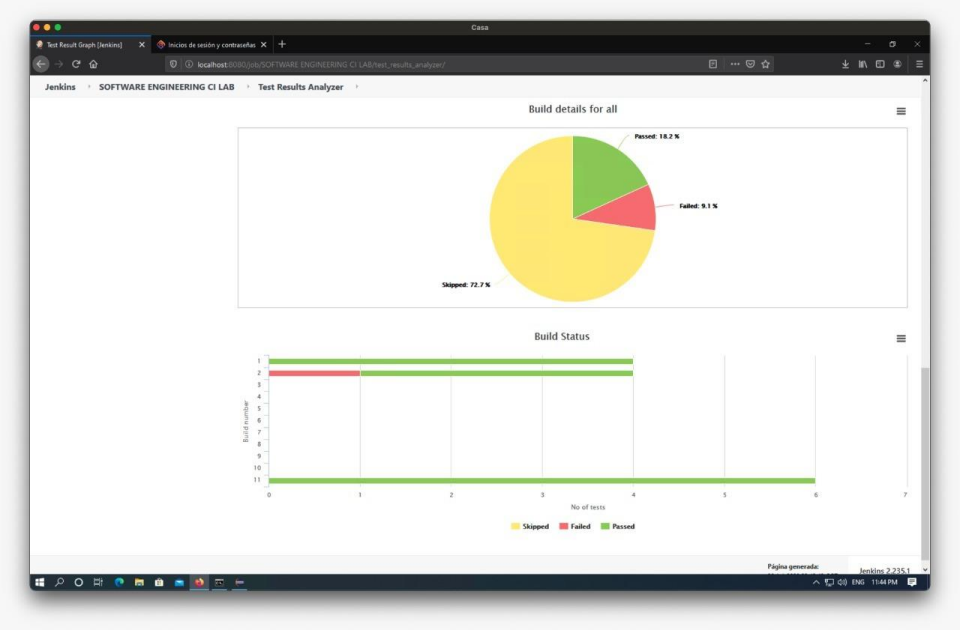
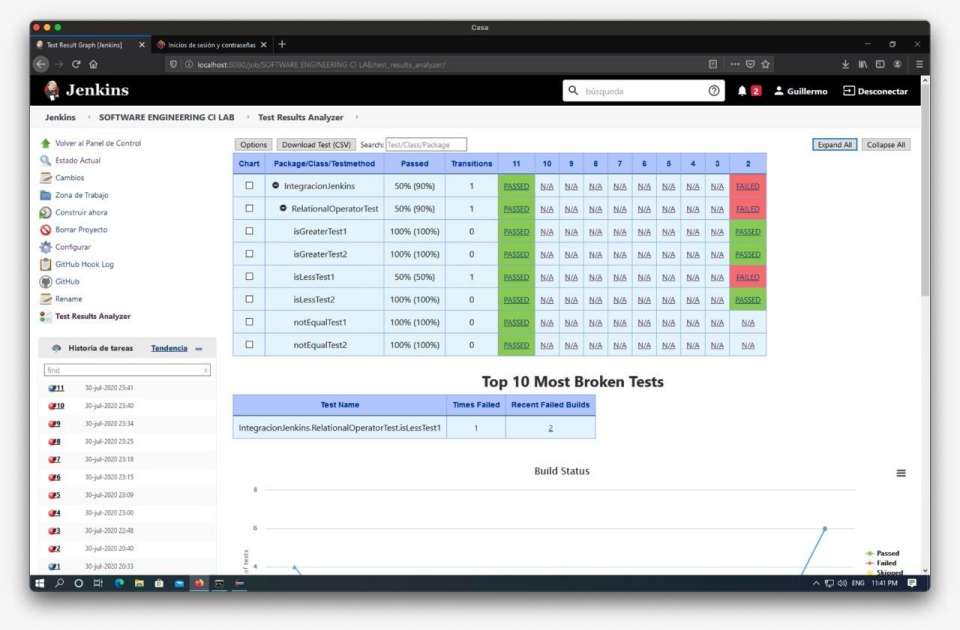




CONCLUSIONS AND RECOMMENDATIONS





References

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[2] C. Inc., "Continuous Integration: What is CI? Testing, Software & Process Tutorial", *Continuous Integration Essentials | Code ship*. [Online]. Available: https://codeship.com/continuous-integration-essentials. [Accessed: 30- Jul- 2020].

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[5] F. Motlik, "Why You Should Use Continuous Integration and Continuous Deployment | CSS-Tricks", *CSS-Tricks*, 2017. [Online]. Available: https://css-tricks.com/continuous-integration-continuous-deployment/. [Accessed: 30- Jul- 2020].