



TECHNICAL UNIVERSITY OF MOLDOVA

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PR Laboratory 1

Submitted To:

Gavrilita Mihail
Asst. Univ.
Computer Science
Department

Submitted By :

Sezgin Erol
Group FAF-161
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Topic:

Study and understanding the principles of operation and use of the distributed version control system.

Theory:

Versioning Systems (VCS, Version Control Systems) serve to manage multiple versions of files included in a collaborative project. Every change made to the project element is memorized with the author of the change. It is important to note that at any time it is possible to return to an earlier version of the entity.

The main motivation consists in the possibility that different members of the team, possibly located in remote geographical spaces, can work simultaneously on the project, and finally, their modifications will be merged into new versions of the project. There are also other benefits. When a bug is noticed, it may return to a previous version in order to determine when it was inserted into the program. At the same time, one branch development can be followed, in which multiple versions of the project are being developed - for example one that wants to remove the bugs, and the other, which is intended to add of new functionalities before shedding existing ones.

Tasks:

Create distant repository using one of the git services gitlab/github/bitbucket and synchronize it with local repository.

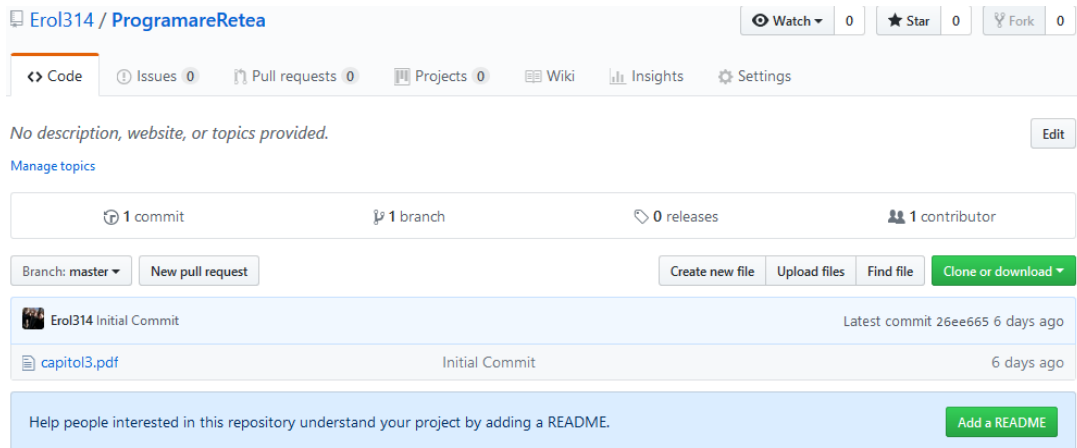


Figure 1: Repository created for PR on GitHub

In figure 1 you can observe already existing repository created at laboratory. To make things done I created a local repository with **Init** command, I added dummy pdf file and added it to rep. with **add .** command. Later I created a repo on GitHub and cloned it with **clone** command. I

Conclusion

During This lab work i refreshed my knowledge of VCS and GitHub in particular. I can mention that GIT became an standard in developing. It allows developers to work distantly and speeds up the process itself, being a tool for CI/CD.

References

- [1] Git, Git basics-Getting a git repository <https://git-scm.com/book/en/v2/Git-Basics-Getting-a-Git-Repository>