Experiment 01 - Version Control and Testing Lab

December 8, 2022

Aim

Create a GitHub repository, clone a sample project and creation of branch.

Theory

Basic Commands used in Git :

- Git clone - git clone $< https : //name - of - the - repository - link >$ - Git clone is a command for downloading existing source code from a remote repository.

- Git branch - $gitbranch < branch - name >$ - By using branches, several developers are able to work in parallel on the same project simultaneously.

- Git checkout - $gitcheckout < name - of - your - branch >$ - To work in a branch, first you need to switch to it. We use git checkout mostly for switching from one branch to another.

Results

The process starts by creating an account on GitHub. An authentic email is required to get started with process. I used my institutional email.

First step after creation of account is to create a repository. The figure 2 is creation of repository.

Figure 3 is details of the repository and figure 4 is successful repository creation.

Cloning a repository is the next step where figure 5 is where clone link can be generated. The figure 6 is where **git clone** command is used to directly clone the repository to system.

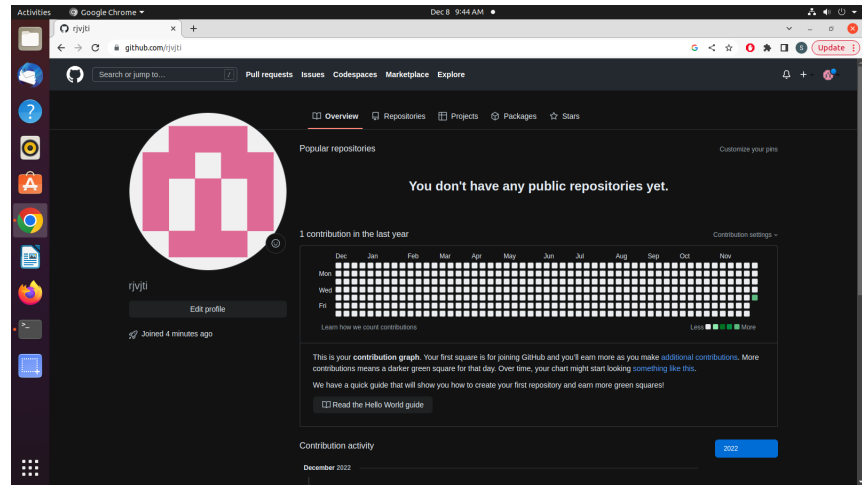Branch creation and usage can be clearly seen in figure 7.
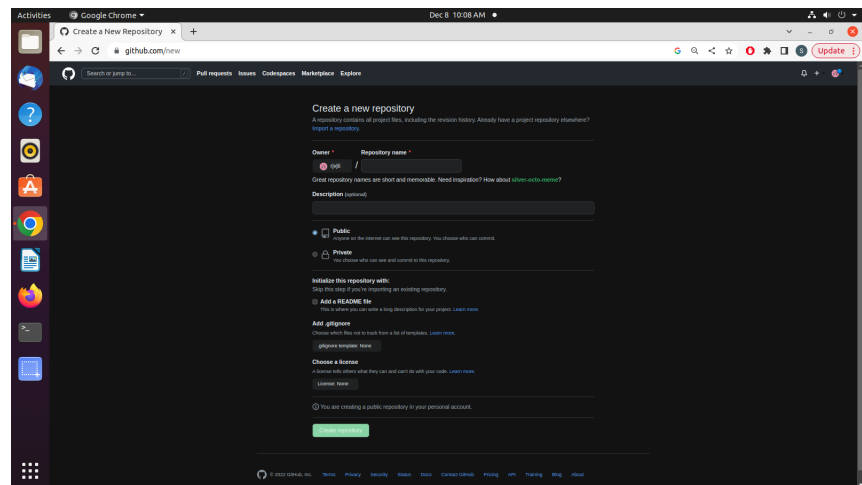
Figure 1: Creation of GitHub user account
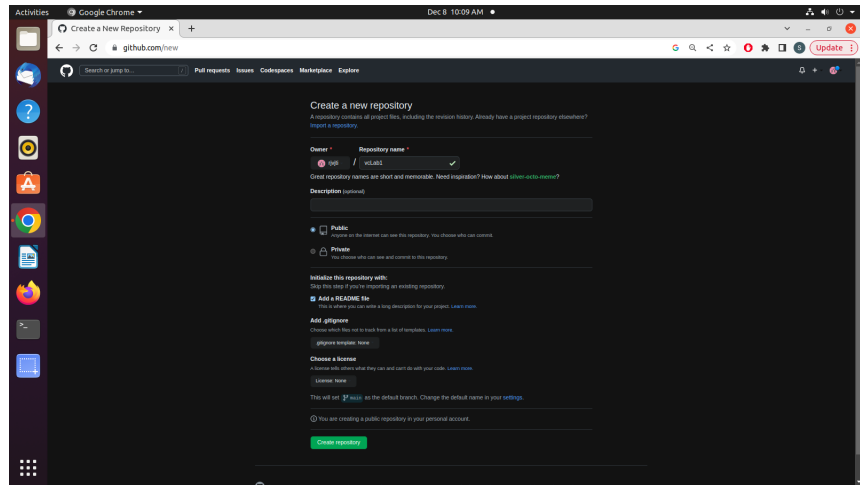

Figure 2: Repository Creation

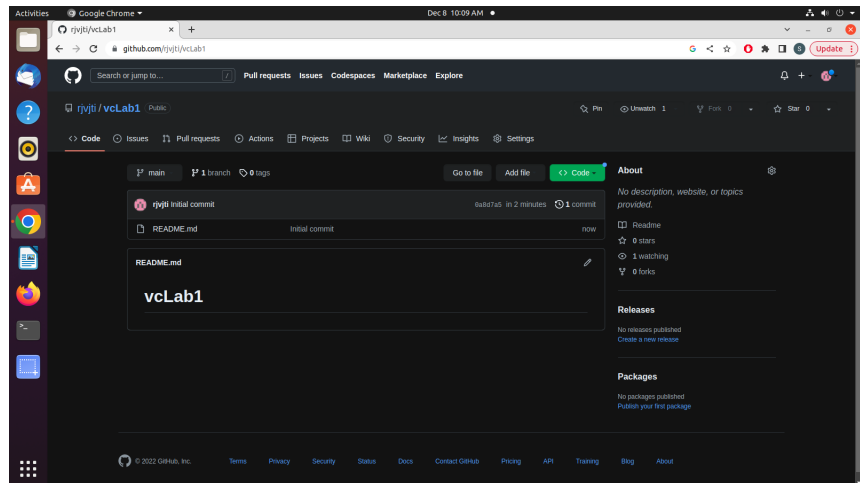Figure 3: Setting required details for repository

Figure 4: Successful Repository Creation

Figure 5: Cloning Repository
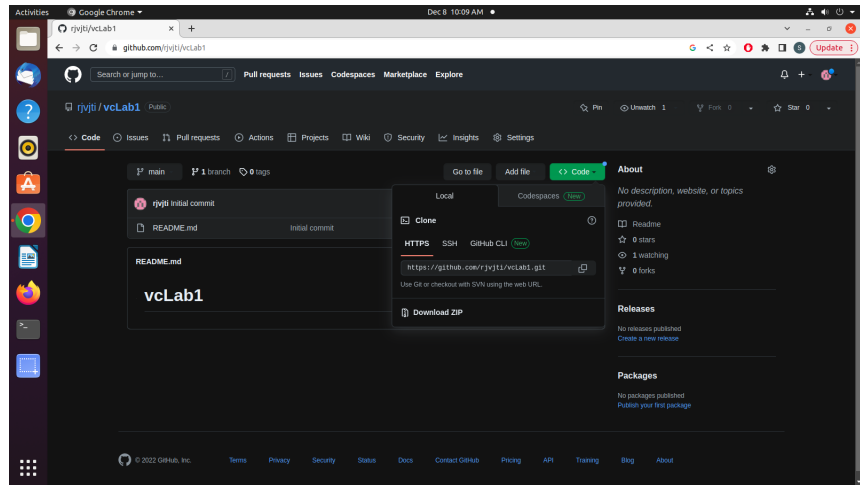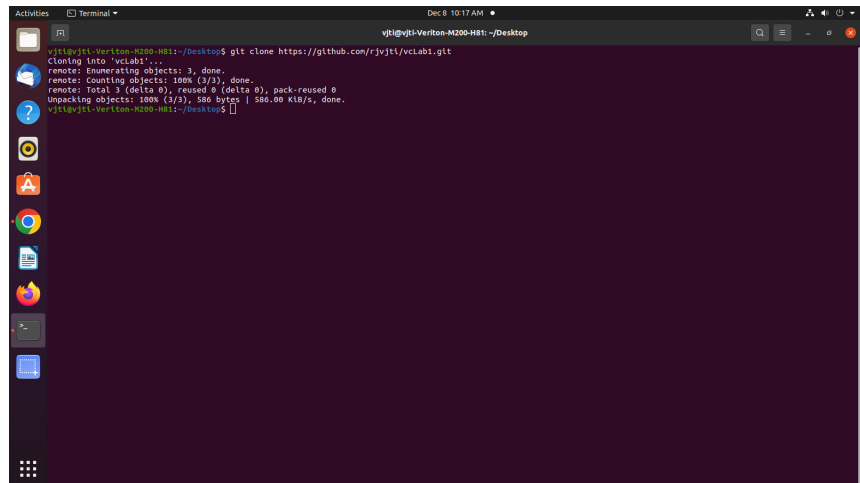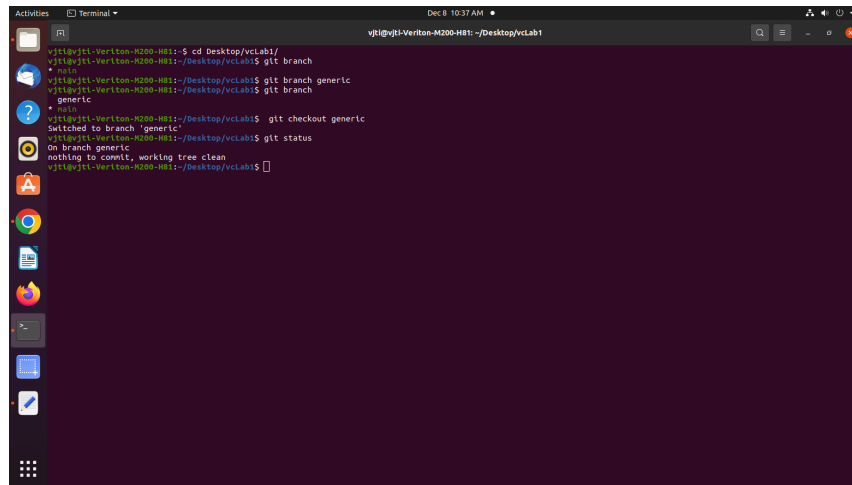

Figure 6: Using git clone

Figure 7: Branch Creation

Conclusion

In the following experiment and lab work the successful interpretation of basic commands used for creation, maintaining and cloning of repository using a branch seamlessly are done.