**CS 389**

**GitHub**

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**Part 1:**

Done

**Part 2:**

What is GitHub? When was it created? Why? By who? What similar platforms exist? Why would you use such a platform? (Answer between 5 and 10 lines)

Answer:

Git is a Distributed Version Control System (DVCS), which means it was created to control different versions of files in a project, allowing the comparison and merging of different versions of them. Its differential from other VCSs (Version Control Systems) is that it is distributed, which allow the project to be made by different people and be driven (forked) in different directions. This is the reason why it is really great for open source projects or other kinds of projects that are made by many people at the same time.

Linus Torvalds created it in 2005, to help developing the Linux kernel.

There are other platforms, such as SVN, CVS, and others. Git was the first distributed VCS, and it is the most used nowadays.

GitHub is a web hosting for remote repositories, which means that is an online system that keeps a copy of the repositories of the projects the user want. Depending on the type of account, other users can see your projects, download them (clone them) and contribute to it.

**Part 3: (Done)**

Press enter to submit commands

> git init

$ git status

$ git status

$ git add octocat.txt

$ git status

$ git commit -m "Add cute octocat story"

$ git add '\*.txt'

$ git commit -m 'Add all the octocat txt files'

$ git log

$ git remote add origin https://github.com/try-git/try\_git.git

$ git push -u origin master

$ git pull origin master

$ git diff HEAD

$ git add octofamily/octodog.txt

$ git diff --staged

$ git reset octofamily/octodog.txt

$ git checkout --octocat.txt

$ git checkout -- octocat.txt

$ git branch clean\_up

$ git checkout clean\_up

$ git rm '\*.txt'

$ git commit -m "Remove all the cats"

$ git checkout master

$ git merge clean\_up

$ git branch -d clean\_up

$ git push

> **Part 4:**

Define the following terms (in 2 lines maximum) in the context of Git:

* ***Repository***: it’s a directory where Git keeps the snapshots of the changes a the project.
* ***Commit***: send a change made in the files to the repository. In other words, take a snapshot and save on the repository.
* ***Push***: submit the snapshot in the repositories to a remote repository.
* ***Branch***: it is a new direction that a project can go to or just a place to test new modifications before merge them to the “main idea” or direction of the project.
* ***Fork***: take someone’s project and take it to another direction or modified before merging it to the main stream of the project.
* ***Merge***: merge (combine) files in different branches
* ***Clone***: “download” a remote repository to your working directory
* ***Pull***: fetch a remote repository and merge it to your working directory.
* ***Pull request***: ask someone to accept a change that you made in his our her project.

**Part 5:**

Done

**Part 6:**

1 – Forked the *paceuniversity* repository project into my account on GitHub;

2 – Cloned the repository to my local repository in a directory created for this projects;

$ git remote origin https://github.com/paceuniversity/courses.git

3 – Modified the README.md document on a text editor;

4 – Added the changes to the staging area;

$ git add README.md

5 – Committed them to my local repository;

$ git commit –m “Modifies README.md file - by Luiz Henrique”

6 – Pushed my local repo into my remote repo.

$ push origin master

7 – Made a Pull Request on GitHub

**Part 7:**

Done

**Part 8:**

Done

**Part 9:**

Done