**Part 3:** What is GitHub? When was it created? Why? By who? What similar platforms exist? Why would you use such a platform?

Github is a collaborative tool for developers to share, track, test, and control multiple versions of code for projects. It was created in April 2008 according to (<https://github.com/ten)> by Tom Preston-Werner, Chris Wanstrath, and PJ Hyett. Technology Advice lists nine alternatives on a [blog post](https://technologyadvice.com/blog/information-technology/github-alternatives/), such as bitbucket, GitLab, FogBugz Kiln/DevHub, Beanstalk, SourceForge, Apache Allura, Cloud Source, AWS CodeCommit, GitKraken. These platforms are very useful for developers working on the same project with multiple areas that need coding. One team can work on different parts and bring it all together as one or work on the same code and make multiple test versions in order to not overwrite and delete previous versions you may need to go back and start from scratch.

**Part 4:** Git Tutorial (https://try.github.io)

Press enter to submit commands

> git init  
Initialized empty Git repository in /.git/  
Success!

$ git status  
# On branch master  
#  
# Initial commit  
#  
nothing to commit (create/copy files and use "git add" to track)  
Success!

$ git status  
# On branch master  
#  
# Initial commit  
#  
# Untracked files:  
# (use "git add <file>..." to include in what will be committed)  
#  
# octocat.txt  
nothing added to commit but untracked files present (use "git add" to track)  
Success!

$ git add octocat.txt  
Nice job, you've added octocat.txt to the Staging Area

$ git status  
# On branch master  
#  
# Initial commit  
#  
# Changes to be committed:  
# (use "git rm --cached <file>..." to unstage)  
#  
# new file: octocat.txt  
#  
Success!

$ git commit -m "Add cute octacat story"  
[master (root-commit) 4f7b891] Add cute octacat story  
1 file changed, 1 insertion(+)  
create mode 100644 octocat.txt  
Success!

$ git add '\*.txt'  
Success!

$ git status

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

$ git push -u origin master  
Branch master set up to track remote branch master from origin.  
Success!

$ git pull origin master  
Updating 3852b4d..3e70b0f  
Fast-forward  
yellow\_octocat.txt | 1 +  
1 file changed, 1 insertion(+)  
create mode 100644 yellow\_octocat.txt  
Success!

$ git diff HEAD  
diff --git a/octocat.txt b/octocat.txt  
index 7d8d808..e725ef6 100644  
--- a/octocat.txt  
+++ b/octocat.txt  
@@ -1 +1 @@  
-A Tale of Two Octocats  
+[mA Tale of Two Octocats and an Octodog  
Success!

$ git add octofamily/octodog.txt  
Success!

$ git diff --staged  
diff --git a/octofamily/octodog.txt b/octofamily/octodog.txt  
new file mode 100644  
index 0000000..cfbc74a  
--- /dev/null  
+++ b/octofamily/octodog.txt  
@@ -0,0 +1 @@  
+[mwoof  
Success!

$ git reset octofamily/octodog.txt

Success!

$ git checkout --octocat.txt  
unrecognized option `--octocat.txt'

$ git checkout -- octocat.txt  
Success!

$ git branch clean\_up  
Success!

$ git checkout clean\_up

Switched to branch 'clean\_up'  
Success!

$ git rm '\*.txt'  
rm 'blue\_octocat.txt'  
rm 'octocat.txt'  
rm 'octofamily/baby\_octocat.txt'  
rm 'octofamily/momma\_octocat.txt'  
rm 'red\_octocat.txt'  
Success!

$ git commit -m "remove all the cats"  
[clean\_up a6a3de9] remove all the cats  
5 files changed, 5 deletions(-)  
delete mode 100644 blue\_octocat.txt  
delete mode 100644 octocat.txt  
delete mode 100644 octofamily/baby\_octocat.txt  
delete mode 100644 octofamily/momma\_octocat.txt  
delete mode 100644 red\_octocat.txt  
Success!

$ git checkout master  
Switched to branch 'master'  
Success!

$ git merge clean\_up

Updating 3852b4d..ec6888b  
Fast-forward  
blue\_octocat.txt | 1 -  
octocat.txt | 1 -  
octofamily/baby\_octocat.txt | 1 -  
octofamily/momma\_octocat.txt | 1 -  
red\_octocat.txt | 1 -  
5 files changed, 5 deletions(-)  
delete mode 100644 blue\_octocat.txt  
delete mode 100644 octocat.txt  
delete mode 100644 octofamily/baby\_octocat.txt  
delete mode 100644 octofamily/momma\_octocat.txt  
delete mode 100644 red\_octocat.txt  
Success!

$ git branch -d clean\_up  
Deleted branch clean\_up (was ec6888b).  
Success!

$ git push

**Part 5:** Define the following terms in the context of Git

* Repository, is a folder that contains your files that are needed for your project. These can be any type of files that can be hosted on your local drive and then uploaded to the web hosted repository
* Commit, is the point in which you have decided the changes made to a specific file or repository needs saving. It places a date stamp with some info identifying it in order to keep track of the changes.
* Push, allows you to publish your changes/commits to the repository. Local files can be edited but will need to be posted in order for others to view/collaborate.
* Branch, a branch is to me like a fork as it’s a copy of the repository and can be edited to not overwrite the original repository until the branch is ready to be combined.
* Fork, is when you make a copy of someone else’s work/project. The original file will not be affected and may be updated.
* Merge, is when a published change is made and combined to the main repository file. This can be done through a pull request that may need to be reviewed and approved before it includes any changes.
* Clone, is a copy or duplicate version of the original file. This is done in order to freely make edits without the negatively affecting the live or original file/repository.
* Pull, is the instance that your file/repository updates with any changes or edits requested.
* Pull request, is the submission of the changes that needs to be approved if not automatically done so. This can be a local file pushed to the repository or a request from a forked repository.

**Part 7:** https://github.com/paceuniversity/courses

Steps and commands

1. Forked the repository (<https://github.com/paceuniversity/courses)>
2. Cloned Version is on my repository
3. Command Lines
   1. git init
   2. git clone <https://github.com/kd90693n/courses.git>
   3. git status
4. Opened up my directory and went to the folder “courses” and opened “README.md” using sublime
5. Edited the file to include my last name, first name datetime and saved
6. Command Lines
   1. git add courses/README.md
   2. cd courses
   3. git status
   4. git add README.md
   5. git config --global user.name “Kevin Delgado”
   6. git config --global user.email [kd90693n@pace.edu](mailto:kd90693n@pace.edu)
   7. git commit –m “Update README.md File”
   8. git push origin <https://github.com/paceuniversity/courses.git> FAILED
   9. git remove add upstream <https://github.com/paceuniversity/courses.git>
   10. git push origin
   11. Login info(username and password)
7. Went into my forked repository “courses” and clicked “New Pull Request” to send the request to paceuniversity/courses
8. Waiting for merge by the professor

**Part 8:** https://github.com/kd90693n/CS6392018/issues/1

**Part 9:** https://github.com/kd90693n/CS6392018/wiki/CS-639-2018

Reference:

<https://technologyadvice.com/blog/information-technology/github-alternatives/>

<https://github.com/ten>

<https://help.github.com/articles/github-glossary/>