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2/5/2015

CS 389

Prof. Scharff

**Assignment 1: GitHub Exercises**

Deadline: 2/5/2014 by 23:59 pm. Use the class time to do this work and seek help from your classmates.

In CS 389 we are using GitHub for code versioning, bug tracking, project management and project documentation.

The goal of this exercise is to get you started with GitHub. Even if you are using GitHub regularly you need to do this exercise.

**Part 1:**

Install GitHub bash <http://git-scm.com/downloads> and browse the documentation. Create an account if you do not have one.

**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)

**GitHub is an online Git repository hosting service which began development in 2007 and released in 2008. It was created by Tom Preston-Werner, Chris Wanstrath, and PJ Hyett. Other similar platforms include SourceForge, Bitbucket, Redmine, Gitlab, Launchpad, Gitorious, Ubirimi, and many more. One may use such a platform to network with likeminded people, to expand on existing projects, and show your work and contributions.**

**Part 3:**

Go through the Git tutorial here: <https://try.github.io/levels/1/challenges/1>. While doing the tutorial, save your work in a Word file called FirstnameLastnameGitTutorial-mm-dd-yyyy.docx.

**Part 4:**

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

* **Repository – where data and code is managed and kept.**
* **Commit – when a change is made to code that you plan on making permanent**
* **Push – to make changes officially permanent**
* **Branch – another copy of code that you can work on without affecting the original**
* **Fork – to make your own copy of a repository**
* **Merge – to take changes of a branch and combine it with the another**
* **Clone – to make a copy of the repository on your computer**
* **Pull – to apply all changes to the repository**
* **Pull request – to show the changes before it is reviewed and then applied after it is confirmed**

**Part 5:**

Push the Word file in your GitHub account in a repository called *cs389spring2015*. You will use this repository this semester.

**Part 6:**

Retrieve the file README.md at:

<https://github.com/paceuniversity/courses>

Add your name (firstname lastname) in the file, add a comment, and update the file README.md at: <https://github.com/paceuniversity/courses>.

List the commands and strategy you use to do this part of the exercise.

**First I went to the repository then I forked the repository to my GitHub. Then I cloned it to my computer then made the changes to add it, then commit then, push it to the repository then finally made a pull request. The commands I used were: git add, git push origin master, git commit –m, and git remote add upstream.**

Please note that the changes must be in <https://github.com/paceuniversity/courses> (my repository).

Please note that I may have to accept the change before it appears for you.

**Part 7:**

Add an issue with title “GitHub training” in your repository called cs389spring2015. Issues will be used for tasks and bug reports.

**Part 8:**

Edit the main page of the wiki in your repository called cs389spring2015. Add the title “CS 389 Spring 2015” to the page. The wiki will be used for documenting the project.

**Part 9:**

Put the information about your GitHub account in the file here:

<https://docs.google.com/spreadsheets/d/14vYl8zjw_AX6mJZ5DzLwTObvtDs4hqCtxK6fPWWfgWY/edit#gid=0>

The link you will put should be of the form: <https://github.com/yourpseudo/cs389spring2015>.

I will check your work directly on GitHub using the information you provided.

Please note that the file needs to be organized in alphabetical order.

**References and more resources:**

Tutorials

<https://try.github.io/levels/1/challenges/1>

<https://help.github.com/>

<https://guides.github.com/activities/hello-world/>

<https://www.udacity.com/course/ud775>

Software  
<http://git-scm.com>

Videos

<https://www.youtube.com/watch?v=73I5dRucCds>  
<https://www.youtube.com/watch?v=0fKg7e37bQE>

<https://www.codeschool.com/paths/git>

Who are you on Git?

<http://osrc.dfm.io>