**Assignment (100 points)**

**CS418/518 – Web Programming**

**TASK 1: Install GIT**

Git is a distributed version control system that we will use in this course to submit coding assignment and develop our respective codebases. To use Git from your local machine, you must first install the Git environment. Your operating system may already have Git installed. Open a terminal emulator (Windows) or terminal (Mac) and type git --version at your command-line to verify this. If an error similar to "command not found" is returned, consult the [Git homepage](https://git-scm.com/book/en/v2/Getting-Started-Installing-Git) (<https://git-scm.com/book/en/v2/Getting-Started-Installing-Git>) to install the program for your operating system.

**TASK 2: Create a repo**

In this course, we will use GitHub for assignment submission from our local Git repositories. Documents in Git reside in a "repository", accessible using both the git:// protocol and through the web interface on GitHub at <https://github.com/yourusername/yourrepositoryname>.

**2.1 Create A Repository for Your Course Project**

GitHub now allows unlimited free private Git repositories. This is necessary for the course project. For this assignment, only a standard GitHub account is needed. Create a blank, private repository ("repo" henceforth) under your account. The name of the repo can be anything **BUT** cs418518-f22 (to prevent a clash for this assignment), such as <https://github.com/fanchyna/test>. In this repo, you will host your project as the course progresses. Add the TA (GitHub user choudhurym) as a collaborator to your repo ([Inviting collaborators to a personal repository](https://docs.github.com/en/github/setting-up-and-managing-your-github-user-account/inviting-collaborators-to-a-personal-repository)).

**2.2 Associating with the Class Repo**

1. Fork the public Git repo at <https://github.com/lamps-lab/cs418518-f22> to your GitHub account.
2. Clone your fork to your local machine
3. Create a new file in the users directory. The file's name should be your ODU user ID (NOT the numerical ID, the computer ID such as j1wu, with combinations of letters and numbers). An example of the file name is j1wu.txt. The content of the file should be the URL of the repo you created in section 2.1 of this assignment, such as <https://github.com/fanchyna/test>.
4. Add and commit this file to your local repo.
5. Push the update you have made to the repo on your machine to your GitHub account.
6. Submit a pull request to the public repo at <https://github.com/lamps-lab/cs418518-f22> with your addition. Be sure NOT to commit invisible files (e.g., .DS\_Store on Mac). To do this, you can add a .ignore file and put the following content into it:   
   .DS\_Store

Hint: You should end up of hosting two GitHub repos under your own account. One has the same name as the course and the other is different.

**EXTRAS**

* Practice your git!!! (I cannot emphasize this enough!)
* If you are already familiar with HTML, CSS, PHP and/or JavaScript, try out the [HTML Validator](http://validator.w3.org/) (http://validator.w3.org/), [CSS validator](http://jigsaw.w3.org/css-validator/) (http://jigsaw.w3.org/css-validator/), [JSLint](http://www.jslint.com/) (https://www.jslint.com/), and [JSHint](http://jshint.com/) (https://jshint.com/). Pay particular attention to the subtle differences between the final two.
  + JSLint is a JavaScript program that looks for problems in JavaScript programs.
  + JSHint is a community-driven tool that detects errors and potential problems in JavaScript code.
* Take a look at Google's [HTML/CSS style guide (https://google.github.io/styleguide/htmlcssguide.html) .](file:///Users/jianwu/Documents/teaching/ODU-teaching/CS418-518-web-programming/jian-wu-fall-2021/assignment/HTML/CSS%20style%20guide%20(https:/google.github.io/styleguide/htmlcssguide.html)%20.)

**Grading rubrics.**

* Creating your personal repo (10 points)
* Sharing the personal repo with the TA (20 points)
* Forking the course repo (10 points)
* Correctly creating your file inside the users directory (20 points)
* Pushed the update to your GitHub account (20 points)
* Submit the pull request (20 points)