Using GitHub in EEL418 course
2016-09-20

The purpose of these instructions is to show how to use GitHub in EEL418 course at DEL-POLI-UFRJ (Rio de Janeiro, Brazil).

The starting point for a student is to create a personal account at GitHub, if he/she does not yet have one. Creating such an account is free and can be made at https://github.com. A free personal account allows creating an unlimited number of <u>public</u> repositories. Public repositories are visible for read-only by the general public. They are typically used to develop open, free software with any kind of license. A repository is thus a place where one can store project files using Git version control.

This is the first step a student of EEL418 must take, but pay attention: you are **not** going to use any public repository in your account to send assignments to the instructor. You are going to use a private repository in an organization called UFRJ-POLI-DEL-EEL418 in the instructor's account. You will need your personal account just to grant access to a private repository created for you by the instructor.

The instructor also has a personal account. The people at GitHub were kind enough to provide an organizational account and an organization called UFRJ-POLI-DEL-EEL418 was created. This organization has rights to create <u>private</u> repositories and can be accessed at https://github.com/UFRJ-POLI-DEL-EEL418. A public repository at https://github.com/UFRJ-POLI-DEL-EEL418/sumario has instructions about the course (syllabus).

This organization has a <u>private</u> repository for each student. It also has a (secret) team for each private repository. This team must have <u>write</u> access to the corresponding repository. The instructor will then add a person (the student) to the team. At this point the instructor must know the students personal GitHub user name. An inviting email will then be automatically sent by GitHub to the student. The student must accept the invitation to join the team. These repositories, teams and invitations are manually created by the instructor and are somewhat time consuming (30 students each semester).

Having access to his private repository the student can proceed to create the first Netbeans Project in it:

1. Sign in at https://github.com with your personal account.
2. Go to https://github.com/UFRJ-POLI-DEL-EEL418.
3. Check whether your private repository is visible, for example: https://github.com/UFRJ-POLI-DEL-EEL418/JOHN_SMITH. Copy this repository URL. This is where you are going to develop your project.
4. Open Netbeans and close all projects (just to avoid problems). Go to Team->Git->Clone. In the opening window paste your repository URL. Fill up your username and password. Choose a local folder to place your project.
5. Continue with "next" filling the appropriate options. When Netbeans asks if you want to create a project, choose "Maven/Web Application" (or whatever).
6. Done. From this point on do "Git->Commit..." to save locally the modifications and "Git->Remote->Push..." to save the modifications remotely at GitHub.
7. Send an email to the instructor before the deadline telling the assignment is ready. No email, no download. Check if you can download your own Project!

Note: English is not my native language. If you care to let me improve this writing I will appreciate.

End of instructions.