

PROGRAMMING ASSIGNMENT 1

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Due Date : 13.10.2024 (23:00:00)

GitHub/Git

1 Introduction

GitHub is a powerful platform for version control and collaboration, enabling users to manage and share their code effectively. In this assignment, you will explore the basics of GitHub by creating your own repository and uploading files. This exercise will introduce you to the essential features of GitHub. By using GitHub, you will gain valuable experience in tracking your progress, which is an essential skill for modern software development. All you need is a GitHub account and internet access to get started!

2 GitHub

GitHub is a tool that helps people store and organize their work, especially when they are writing code or working on projects. Think of it as a big online folder where you can save your files. But what makes GitHub special is that it helps you keep track of changes to your work over time, like saving different versions of an essay so you can see what you changed and when. It allows you and others to work together on a project from anywhere.

3 Create Your GitHub Account

You should first create your GitHub account as shown in 1. Please, make sure to use your **CS e-mail** account and student ID **bXXXXXX** as your username for your GitHub account. **Otherwise, your work will not be graded..**

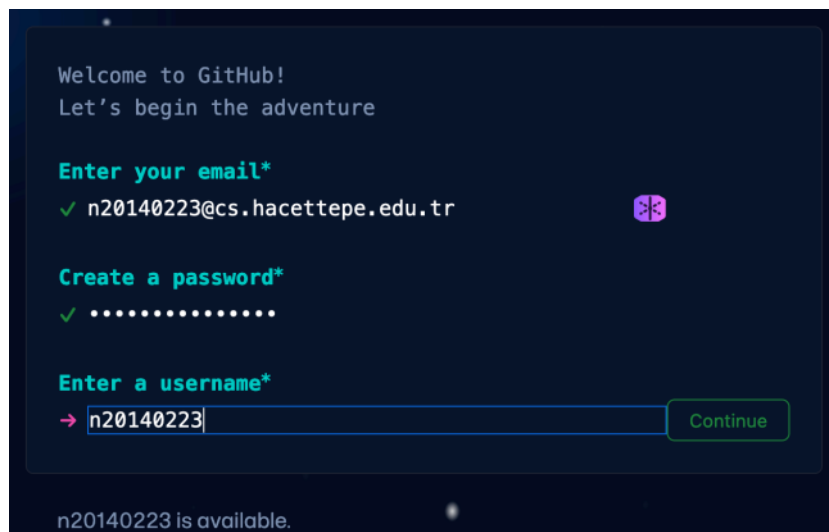


Figure 1: GitHub sign up example

We will use GitHub classroom for this assignment. First, click the link shared on Piazza and accept the Assignment 1. GitHub Classroom automatically generates remote repository and the repository link will be available on the current page.

Simply create a text file, named with your student ID (b2XXXXXXX.txt), in which is an **academic integrity consent** that you introduce yourself and state that you understand and accept the course policy as illustrated in 2. This file and photo of yourself named with your ID b2XXXXXXX.jpg (or .png) should be placed under a directory also named with your ID as shwon in 3.

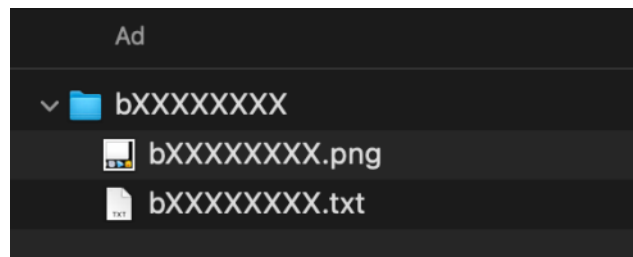


Figure 2: File structure

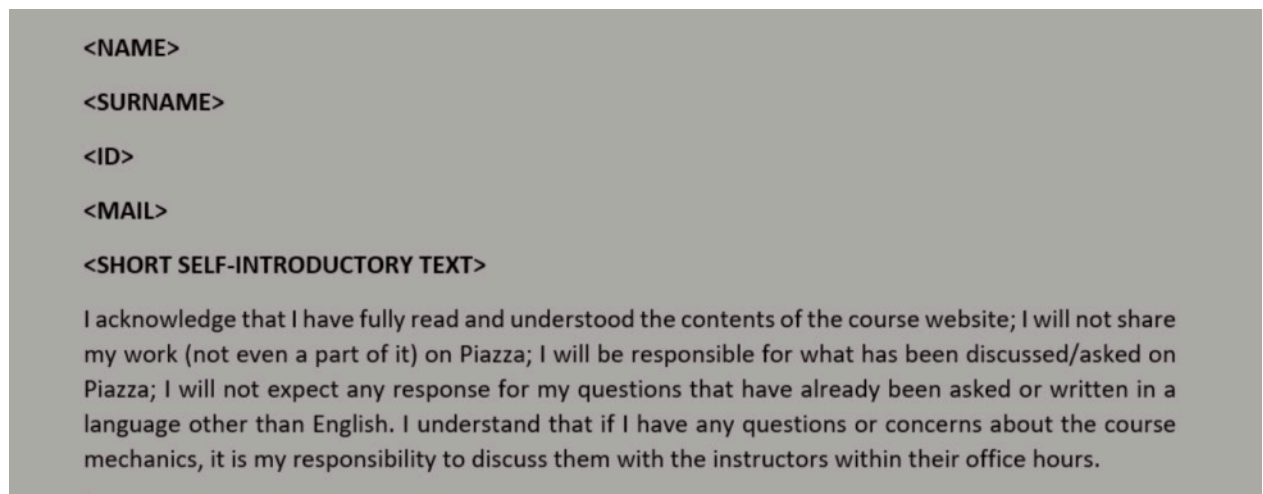


Figure 3: Text file content

4 How to Use GitHub/Git

Firstly, download and install the Git versioning system from [here](#). Follow the installation instructions for your operating system. Set your username and email using the following Git commands from your (or dev) command line:

- `git config --global user.name "b2XXXXXXX"`
- `git config --global user.email "b2XXXXXXX@cs.hacettepe.edu.tr"`

These are your actual GitHub username and email. Initialize a new Git repository inside the project folder b2XXXXXX using the following command **git init**.

Then, add the GitHub repository as the remote repository for your local Git repository using the remote repository url which we discussed earlier

- `git remote add origin <repository-url>`

Stage the changes when you make changes within the folder using **git add <filename>** or **git add .** to stage all changes. Then, commit the changes using the command: **git commit -m "Your message"**.

Finally, use **git push** command to push commits made on your local branch to a remote branch as follows:

- `git push REMOTE-NAME BRANCH-NAME`

Late Policy

You have two days for late submission. You will lose 10 points from maximum evaluation score for each day (your submitted study will be evaluated over 90 and 80 for each late submission day). You must submit your solution in at the most two days later than submission date, otherwise it will not be evaluated. Please do not e-mail to me even if you miss the deadline for a few seconds due to your own fault as it would be unfair for your friends, e-mail submissions will not be considered if you do not have a valid issue.

Notes and Restrictions

- **You must use git commands to complete this assignment.**
- Do not miss the submission deadline.
- Do not forget to add academic integrity consent and student ID card (20% penalty will be applied).
- Follow the instructions about folder/file names and file structure (20% penalty will be applied) .
- All assignments must be original, individual work. Duplicate or very similar assignments are both going to be considered as cheating.