

Git and GitHub Assignment

DATA SCIENCE-613

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Instructions

1. **Create a PDF Document** with the following content:
 - **Title:** "Git and GitHub Assignment"
 - **Your GitHub Repository URL:** <https://github.com/jkuoc183/Git-and-GitHub-Assignment>
 - Include the URL of your GitHub repository at the top of the PDF (e.g., <https://github.com/your-username/git-clone-push-assignment>).
 - **Screenshots and Git Commands:**
 - For each of the steps (cloning, adding a file, staging, committing, pushing), include a screenshot of the terminal and the corresponding Git commands and their outputs.
 - Make sure each screenshot is clearly labeled and explained.
 - **Make sure the PDF is properly formatted and easy to follow.**
2. **Submit Your Work:**
 - Upload the PDF file to **Canvas** under the appropriate assignment section.
 - Push the PDF file to your GitHub repository in the cloned folder (optional but recommended). This ensures your repository contains the documentation for future reference.

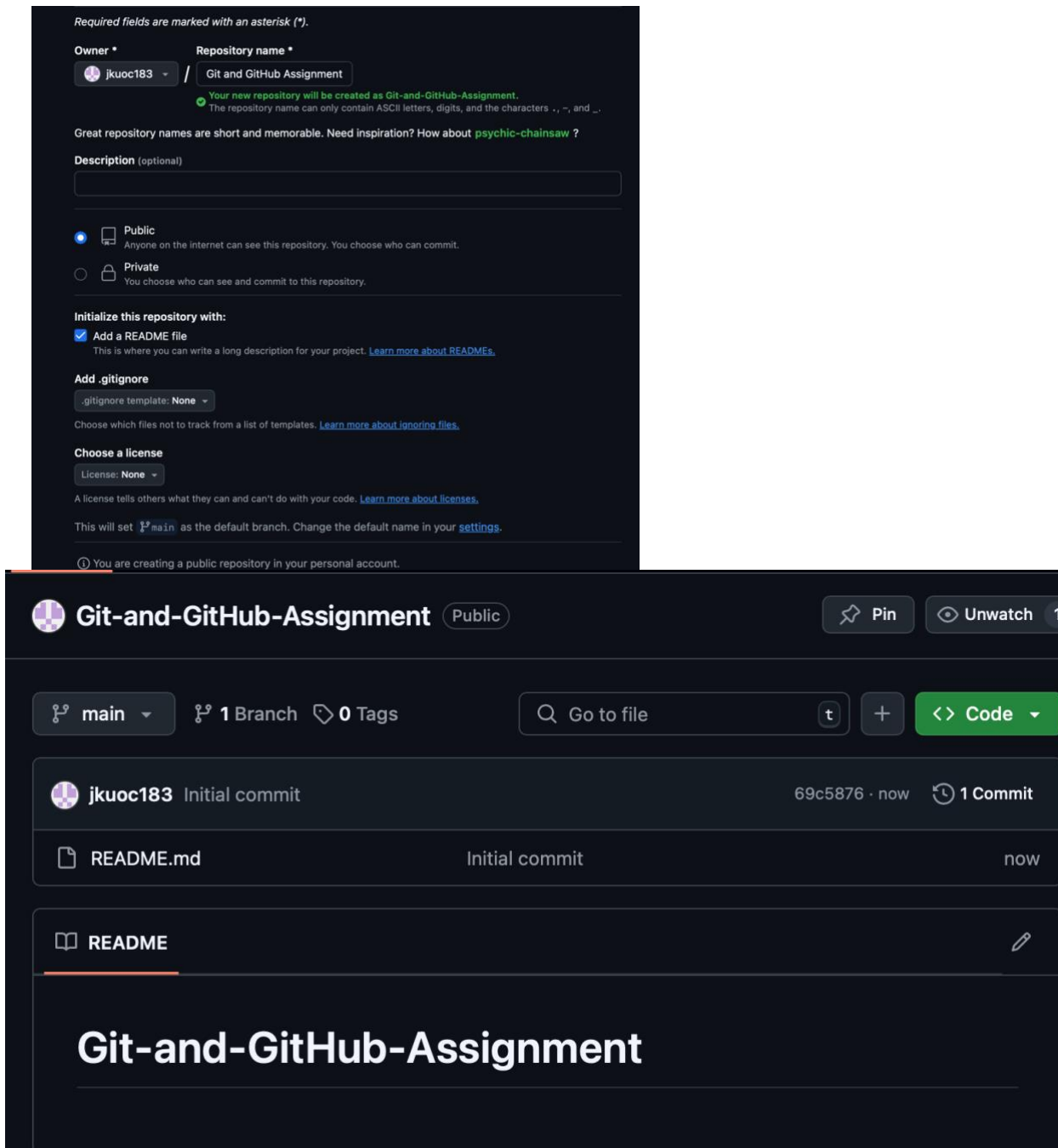
Grading Criteria:

- **Repository Setup** (10 points): Successfully created a GitHub repository and cloned it to your local machine.
- **Git Commands & Output** (30 points): Correct usage of Git commands (`git add`, `git commit`, `git push`), with clear terminal outputs.
- **Screenshots** (30 points): Clear and well-labeled screenshots of each step showing both the terminal and GitHub.
- **PDF Submission** (20 points): Well-organized and easy-to-follow PDF documentation that includes GitHub URL, Git commands, and screenshots.
- **Repository Submission** (10 points): Ensuring the PDF is also uploaded to GitHub (optional, but a good practice).

Link: <https://github.com/jkuoc183/Git-and-GitHub-Assignment>

Creating Respiratory

First step is to go on GitHub create a new respiratory, name the title “Git and GitHub Assignment”. Have the “Public” and “Add a README file” ticked.



The image shows two screenshots from GitHub. The top screenshot is the 'Create new repository' form. It shows the owner 'jkuoc183' and the repository name 'Git and GitHub Assignment'. The 'Public' option is selected, and 'Add a README file' is checked. The bottom screenshot shows the newly created repository page for 'Git-and-GitHub-Assignment'. It displays the repository name, 'Public' status, and a list of files including 'main' branch, '1 Branch', '0 Tags', and a file named 'README.md' with an 'Initial commit'.

Required fields are marked with an asterisk (*).

Owner * Repository name *

Great repository names are short and memorable. Need inspiration? How about [psychic-chainsaw](#) ?

Description (optional)

☒ Public
Anyone on the internet can see this repository. You choose who can commit.

☐ Private
You choose who can see and commit to this repository.

Initialize this repository with:

☒ Add a README file
This is where you can write a long description for your project. [Learn more about READMEs.](#)


Add .gitignore
Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)


Choose a license
License:


A license tells others what they can and can't do with your code. [Learn more about licenses.](#)



This will set `main` as the default branch. Change the default name in your [settings](#).

🔔 You are creating a public repository in your personal account.

 **Git-and-GitHub-Assignment** Public Pin Unwatch 1

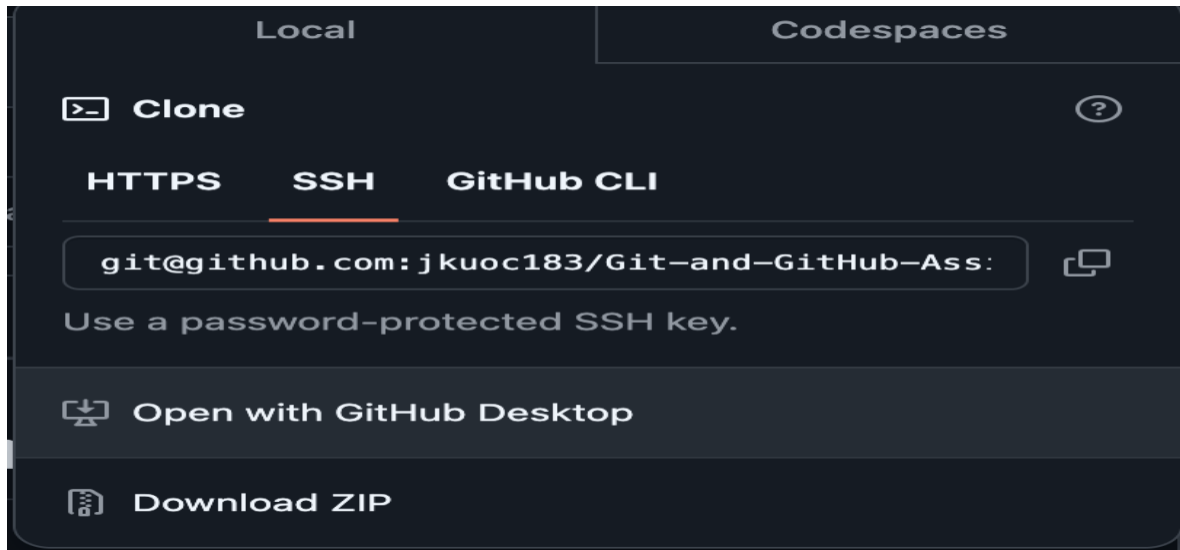
 **jkuoc183** Initial commit 69c5876 · now 🕒 1 Commit

 **README.md** Initial commit now

 **README** 

Git-and-GitHub-Assignment

Cloning



1. Copy: “git@github.com:jkuoc183/Git-and-GitHub-Assignment.git”
2. Type in terminal “git clone [git@github.com:jkuoc183/Git-and-GitHub-Assignment.git](https://github.com/jkuoc183/Git-and-GitHub-Assignment.git)”
3. for cloning the repository, to check if it was successfully clone type “ls” and it should show the desired file.
4. In terminal change the directory “cd Git-and-GitHub-Assignment”

```
j.k.@MacBookAir ~ % git clone git@github.com:jkuoc183/Git-and-GitHub-Assignment.git
Cloning into 'Git-and-GitHub-Assignment'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
j.k.@MacBookAir ~ % ls
09HW_612.R          OneDrive - american.edu
Applications        Pictures
Becko              Potencial housing.xlsx
Becko.pub          Public
Coinbase.R         Python
Data 612 Statistical Programming R  Sites
Data_Science-      This
Desktop            Visual Studio Code.app
Documents           eval "$(ssh-agent -s)"
Downloads           eval "$(ssh-agent -s)".pub
Git-and-GitHub-Assignment          ls
Intro to pyhton     myenv
Library             temp_bash
Movies              version
Music               video_practice_employees.R
j.k.@MacBookAir ~ % cd Git-and-GitHub-Assignment
j.k.@MacBookAir Git-and-GitHub-Assignment %
```

```
j.k.@macbookair Git-and-GitHub-Assignment % git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
j.k.@macbookair Git-and-GitHub-Assignment %
```

Adding a file

The file content will show “Github Assignment” and it is named “HW.md”

```
j.k.@MacBookAir Git-and-GitHub-Assignment % echo "Github Assignment" > HW.md
j.k.@MacBookAir Git-and-GitHub-Assignment % ls
HW.md      README.md
j.k.@MacBookAir Git-and-GitHub-Assignment %
```

Staging & Committing

1. Staging a file type in the terminal “git add addingafile.txt”
2. Then followed by typing in terminal “git commit -m “Committing a file.txt””, the commit saves the stages changes with descriptive message.

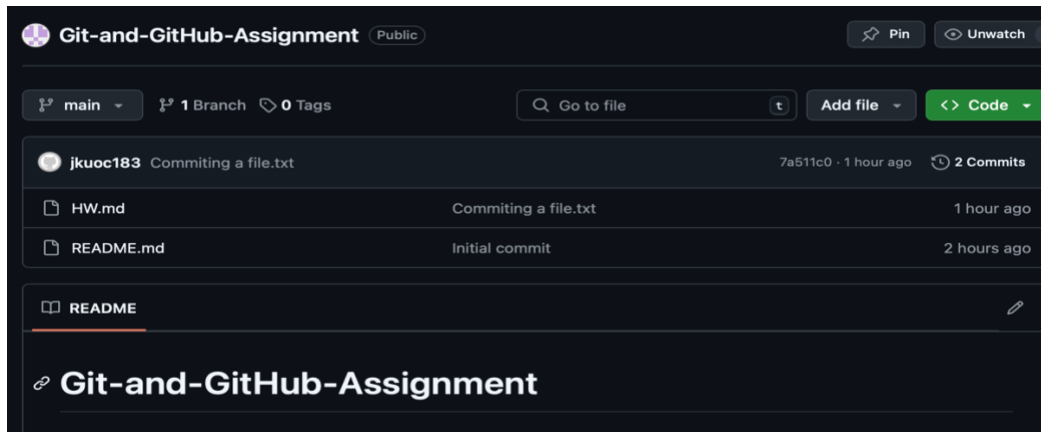
```
j.k.@MacBookAir Git-and-GitHub-Assignment % git add HW.md
j.k.@MacBookAir Git-and-GitHub-Assignment % git commit -m "Committing a file.txt"

[main 7a511c0] Committing a file.txt
 1 file changed, 1 insertion(+)
 create mode 100644 HW.md
j.k.@MacBookAir Git-and-GitHub-Assignment %
```

Pushing

1. Type terminal “git push origin main” and it will upload to Github the file added.
2. To check if it was succesfully uploaded, follow the link below.
3. Link: <https://github.com/jkuoc183/Git-and-GitHub-Assignment>

```
j.k.@macbookair Git-and-GitHub-Assignment % git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 289 bytes | 289.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:jkuoc183/Git-and-GitHub-Assignment.git
 69c5876..7a511c0  main -> main
```



To submit the pdf file to Github, I need to repeat the same process:

1. Type in terminal “git add Git_and_Github.pdf”, important note since it is a pdf, need to type “.pdf”
2. Type in terminal “git commit -m “Good practice”, it gives a brief description of the file.
3. Type in terminal “git push origin main”, it will upload the file to GitHub