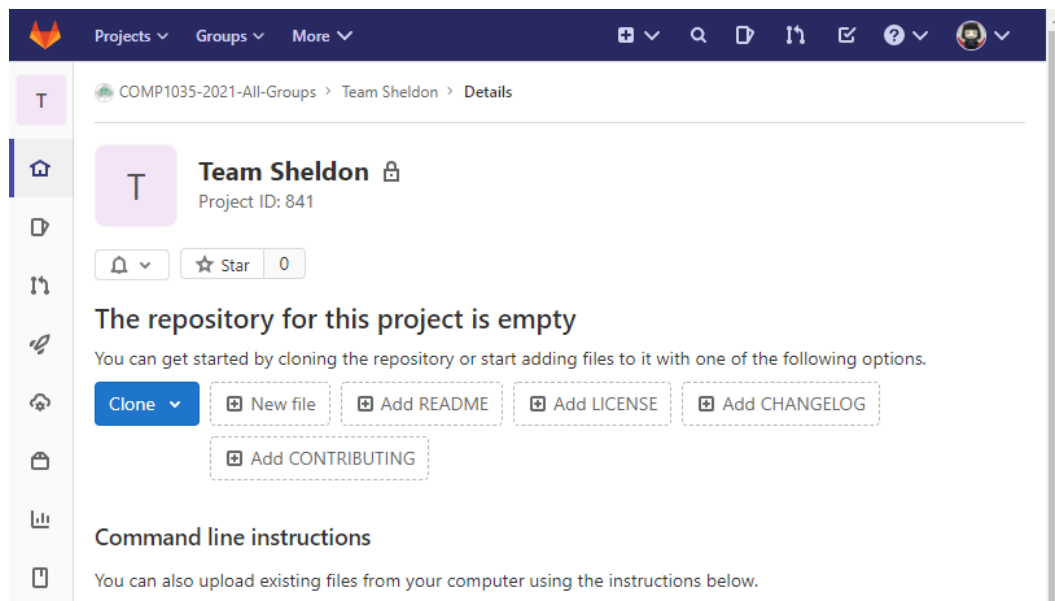


COMP1035 – Lab 01: How to Fork & Clone Repository

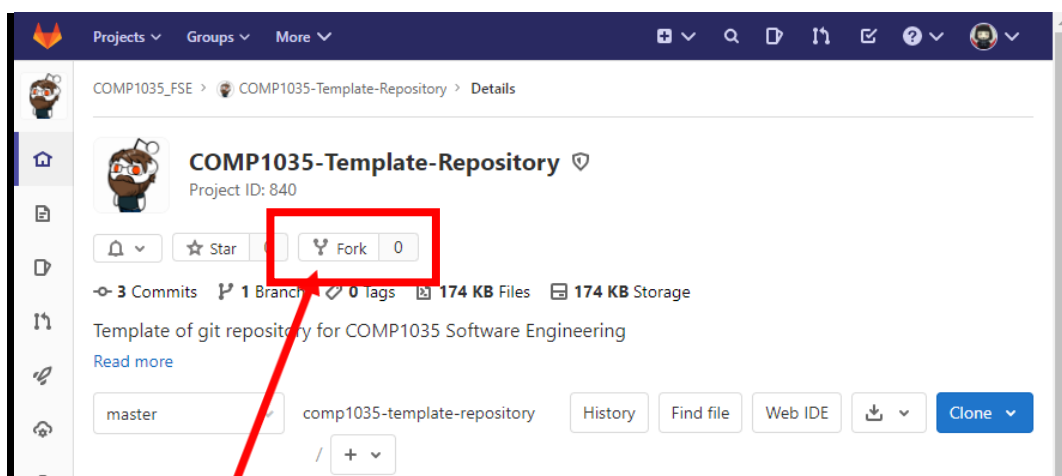
Greetings, I'm Sheldon Cooper. Today, I'll guide you through the process of forking and cloning the repository into your team repository. First, log in to <https://csprojects.nottingham.edu.cn>.

Task A (To be completed by one member, usually the team leader)

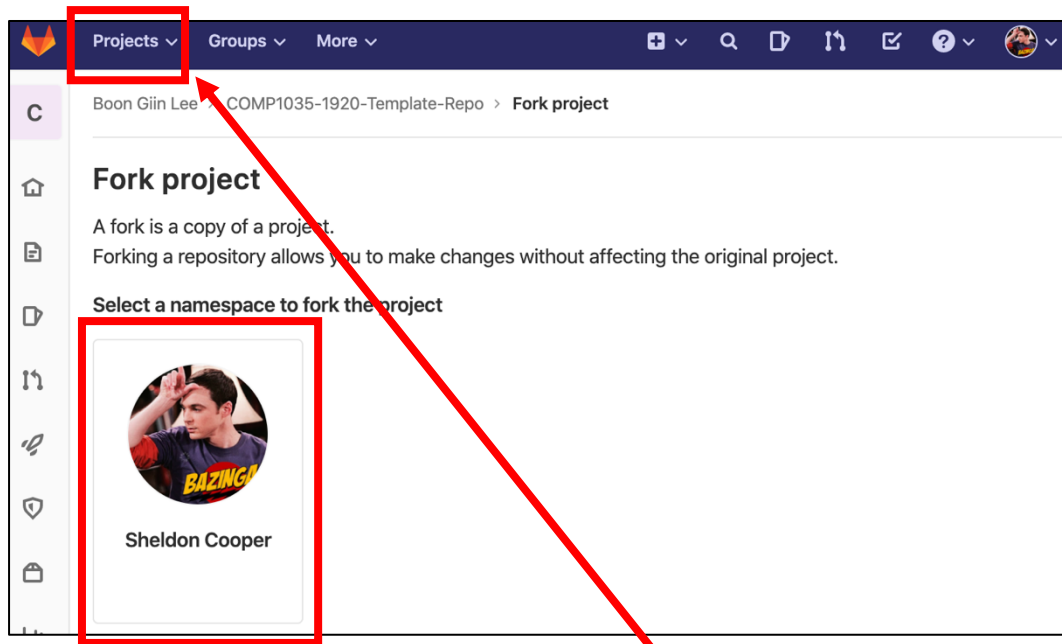
Firstly, go to your group repository (ensure it's the correct one). If it's empty or with only README, we'll begin by forking the repository to initiate our work.



Next, visit csprojects.nottingham.edu.cn/comp1035_fse/comp1035-template-repository.



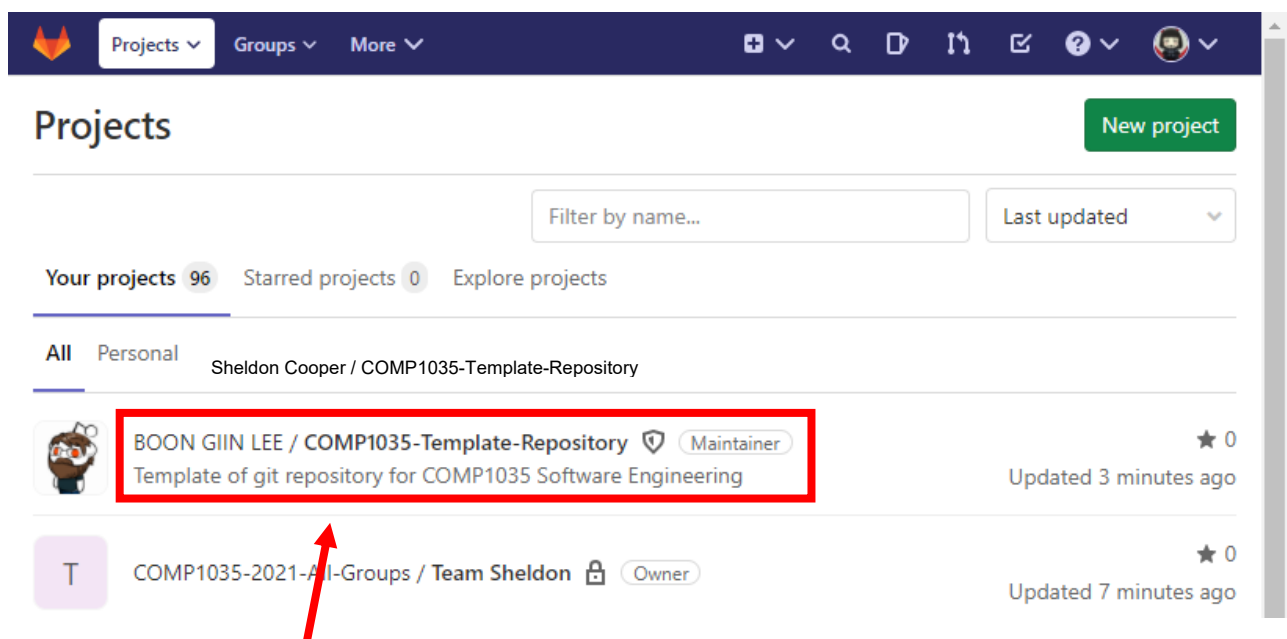
From there, click on "Fork" to create a copy into your repository within your namespace.



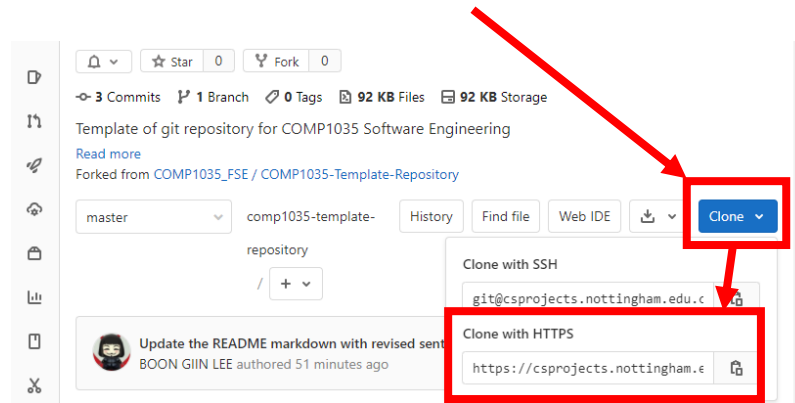
You'll receive a message confirming the successful fork (e.g., "The project was successfully forked."). To ensure it's in your team repository, navigate to "Projects" and then "Personal".

Wait a moment! The forked repository isn't in your group repository! Ah, I see. The fork command copies the repository from cspjprojects.nottingham.edu.cn/comp1035_fse/comp1035-template-repository to cspjprojects.nottingham.edu.cn/<username>/comp1035-template-repository (your repository) with the same structure.

What now? How do I clone this repository into my group repository? Fear not, I'll guide you through it!



Access the forked repository and copy the link by clicking the "Clone" button, then select the "Clone with HTTPS" option.



Now, open your terminal (MacOS) or command prompt (Windows). Enter the following command to clone the repository into your local machine (replace <username> with your username, which you can find by clicking your avatar, shown under your name, do not type in the '@' character).

```
>> git clone --bare https://csprojects.nottingham.edu.cn/<username>/comp1035-template-repository.git
```

```
(base) G:\university\classes\202021-02\COMP1035-FSE\UNNC\Repository>git clone --bare
https://csprojects.nottingham.edu.cn/z2019017/comp1035-template-repository.git
Username for 'https://csprojects.nottingham.edu.cn': z2019017
Password for 'https://z2019017@csprojects.nottingham.edu.cn':
remote: Enumerating objects: 22, done.
remote: Counting objects: 100% (22/22), done.
remote: Compressing objects: 100% (19/19), done.
remote: Total 22 (delta 2), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (22/22), 4.53 KiB | 4.53 MiB/s, done.
Resolving deltas: 100% (2/2), done.
```

Provide your username and password when prompted. Once cloned successfully, set your path to the git repository by typing:

```
>> cd comp1035-template-repository.git
```

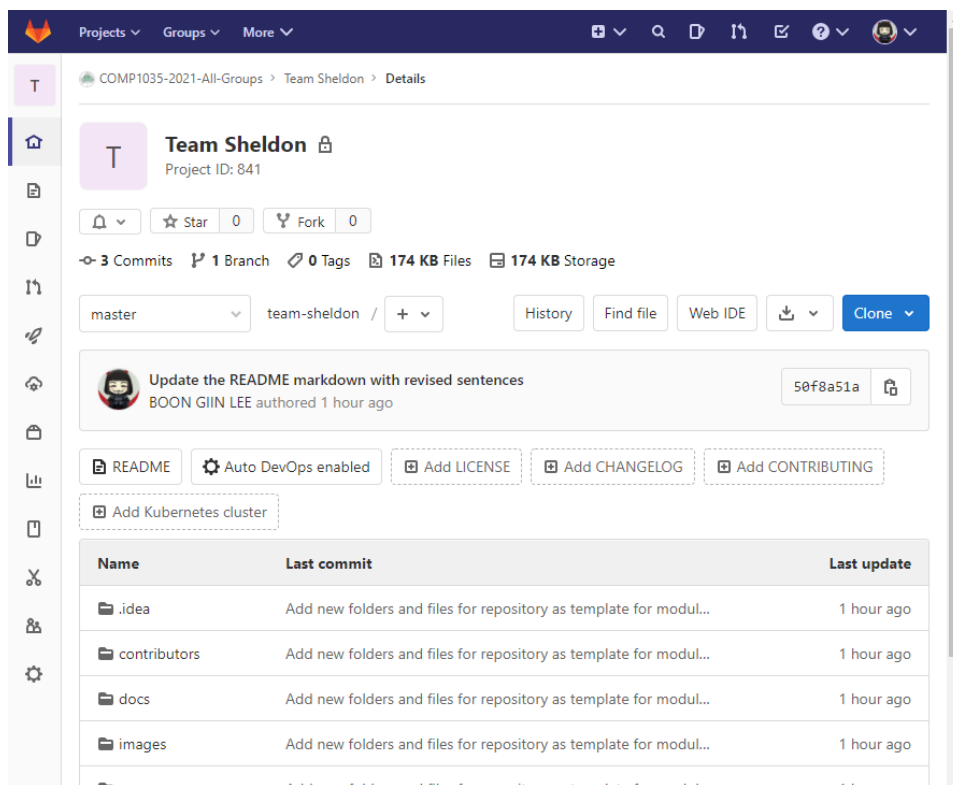
Next, push this cloned repository into your group repository by entering:

```
>> git push --mirror https://csprojects.nottingham.edu.cn/<group-name>
```

Replace <group-name> with your group repository's name. You can find the link of your group repository in the same way as before, by copying the link under "Clone with HTTPS". Provide your username and password when prompted. Voila! "Everything up-to-date!"

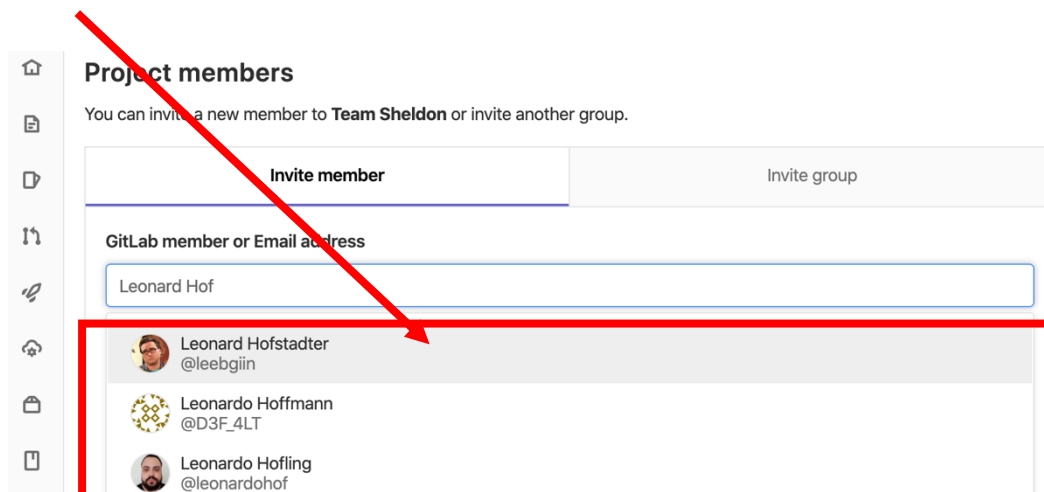
```
(base) G:\university\classes\202021-02\COMP1035-FSE\UNNC\Repository\comp1035-template-
repository.git>git push --mirror https://csprojects.nottingham.edu.cn/comp1035-2021-
all-groups/team-sheldon
Username for 'https://csprojects.nottingham.edu.cn': z2019017
Password for 'https://z2019017@csprojects.nottingham.edu.cn':
warning: redirecting to https://csprojects.nottingham.edu.cn/comp1035-2021-all-groups
/team-sheldon.git/
Everything up-to-date
```

Return to your group repository and refresh the page to ensure everything is in order.



Fantastic! It looks like everything's in place. Kudos to Sheldon! Now, you can commence work on your repository. Oh wait, where are your group members?! You must add them to this repository. Click on "**Manage**" and then "**Members**" in the sidebar.

Sheldon: "Leonard, I'm adding you to my group and assigning you the role of "**Maintainer**" (Enter your team members' university IDs).






Leonard: "Hold on, Sheldon! I don't want to be in your group!"

Sheldon: "You have no choice, it's done."

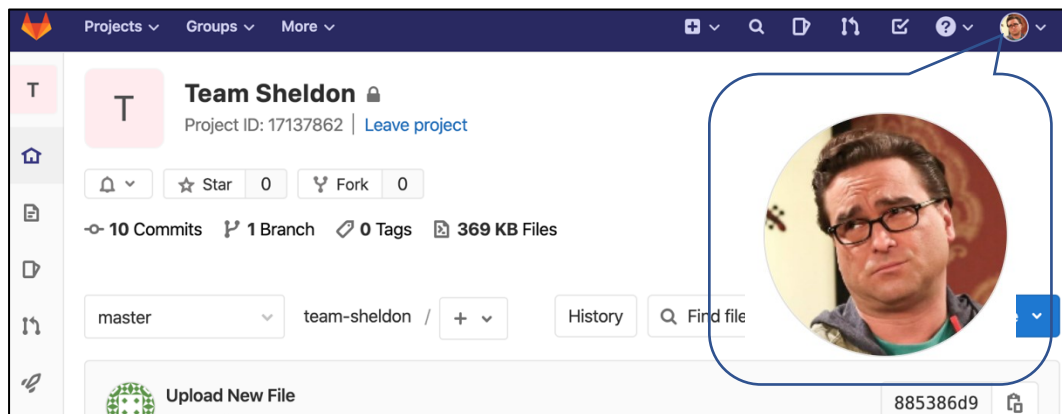
Leonard: "..."

Sheldon: "Here's the proof, Leonard. You're officially part of Team Sheldon!"

Existing members and groups

Members of Team Sheldon 3		Find existing members by name	Sort by	Name, ascending
	Boon Giin Lee @unnc-bglee · COMP1035-1920-All-Groups	Given access 6 hours ago	Owner	
	Leonard Hofstadter @leebgiin	Given access just now	Maintainer	Expiration date
	Sheldon Cooper @bglee85	Given access 2 hours ago	Maintainer	Leave

Leonard: “No no no no ... Let me check my GitLab repository.”



Leonard: “Indeed, I'm part of the team! I wish this were BAZINGA!

Sheldon: “Leonard, now recruit more members for HALO night! Chao!”

Leonard: “Sheldon!!! Arrgh ...!!!”

Task B

Hi everyone, I'm Leonard Hofstadter, and I'll continue from here. I'm going to clone the group repository into my local machine. First, navigate to a folder (any folder) in your local machine and ensure you don't have the cloned repository “comp1035-template-repository”. Now, open your terminal and enter the command:

>> `git clone https://csprojects.nottingham.edu.cn/<group-name>.git`

```
(base) G:\university\classes\202021-02\COMP1035-FSE\UNNC\Repository>dir
Volume in drive G is TOSHIBA EXT
Volume Serial Number is 80D6-90CA

Directory of G:\university\classes\202021-02\COMP1035-FSE\UNNC\Repository

19/02/2021  13:18    <DIR>          .
19/02/2021  13:18    <DIR>          ..
19/02/2021  13:06    <DIR>          comp1035-template-repository.git
19/02/2021  13:14    <DIR>          team-sheldon
               0 File(s)                0 bytes
               4 Dir(s)  1,600,380,063,744 bytes free
```

Provide your username and password when prompted. The repository will be unpacked successfully.

```
(base) G:\university\classes\202021-02\COMP1035-FSE\UNNC\Repository>dir
Volume in drive G is TOSHIBA EXT
Volume Serial Number is 80D6-90CA

Directory of G:\university\classes\202021-02\COMP1035-FSE\UNNC\Repository
19/02/2021  13:18    <DIR>          .
19/02/2021  13:18    <DIR>          ..
19/02/2021  13:06    <DIR>          comp1035-template-repository.git
19/02/2021  13:14    <DIR>          team-sheldon
               0 File(s)              0 bytes
               4 Dir(s)  1,600,380,063,744 bytes free
```

Verify that the folder is cloned into your local machine. Perfect! Let's set the path to the folder and open it.

```
>> cd team-sheldon
```

```
>> [Windows] start .
```

```
>> [MacOS] open .
```

Excellent, everything's set up. That's all. We're done! Oh dear, I'm late for my date with Penny. Bye for now~!

