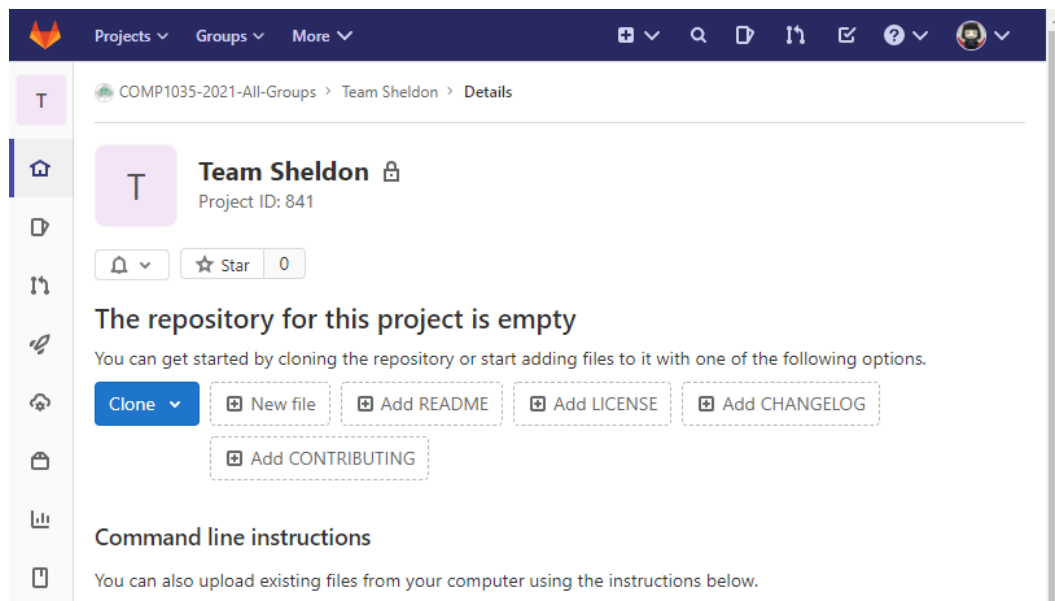


COMP1035 – Lab 01: How to Fork & Clone Repository

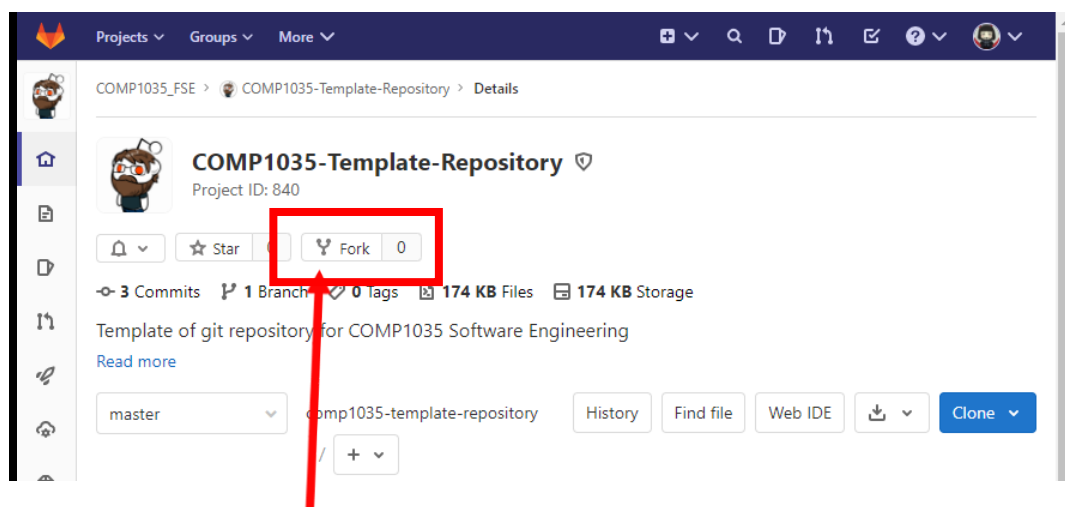
Hi, I am Sheldon Cooper. Today, I am going to teach you how to fork and clone the repository into your team repository. First, log into <https://www.github.com>. **BAZINGA!** 🤖🤖 (it's a joke). You should log into <https://csprojects.nottingham.edu.cn>.

Task A

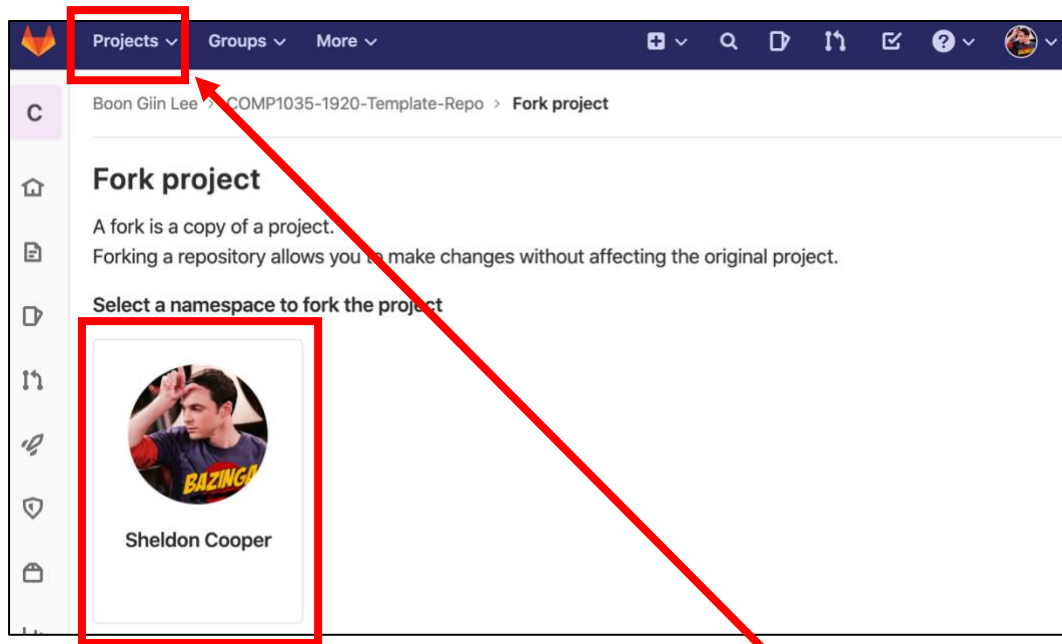
Firstly, I go to my team repository. I see an empty repository. Now, I am going to fork the repository to get my work started.



First, I go to csprojects.nottingham.edu.cn/comp1035_fse/comp1035-template-repository.



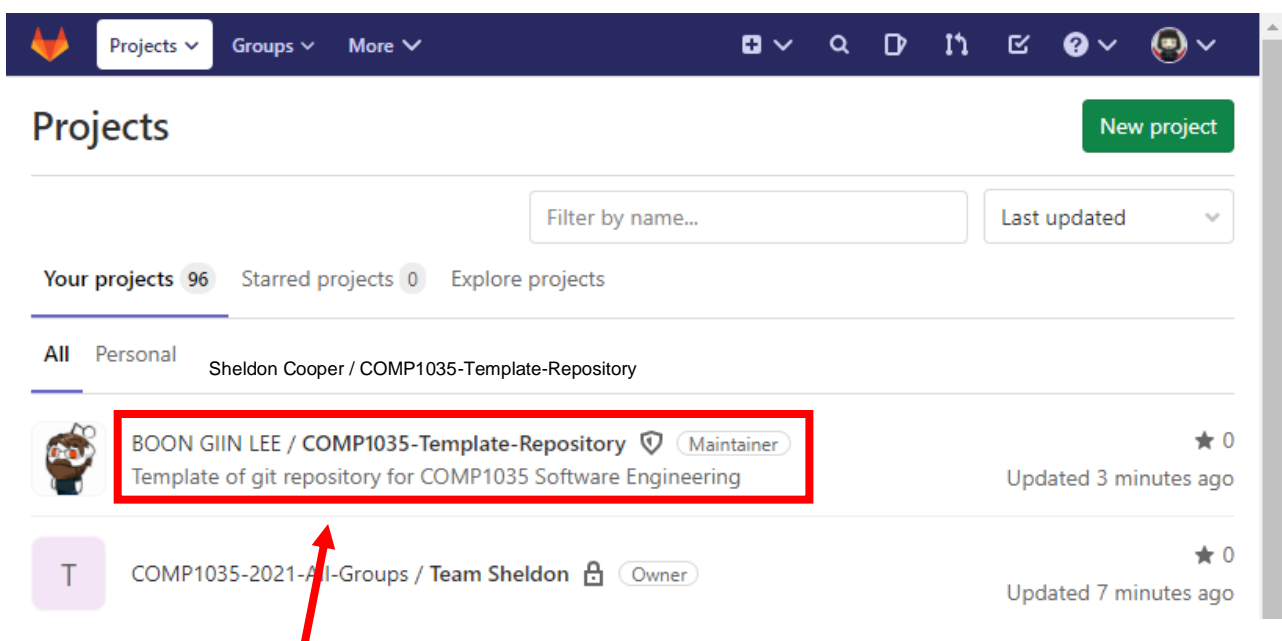
From here, I click on the “Fork” to create a copy into my repository. Then I select my namespace to fork the project.



OK, I got a message says, “**The project was successfully forked.**”. Good. Now, to verify whether the forked repository is in my team, I will go and click “Projects”, “Your projects” on the top and go into my team repository.

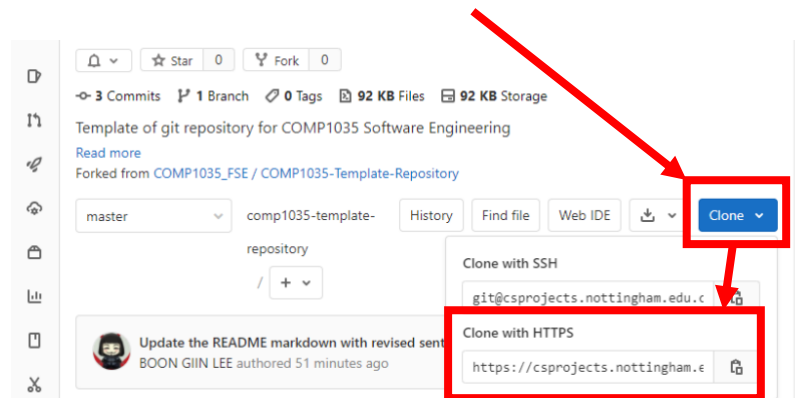
Eh, what? The forked repository is **NOT** in my team repository! Hm, oh, the reason is that the fork command actually copy the repository from csprojects.nottingham.edu.cn/comp1035_fse/comp1035-template-repository into csprojects.nottingham.edu.cn/<username>/comp1035-template-repository (my repository) with the same structure.

So, what should I do now? How can I clone this repository into my team repository? Luckily, you have me! Let me, Sheldon the Flash teach you how to do it!



Now, I enter the forked repository.

I copy the link by clicking the “Clone” button, then, I click on the button on the right of “Clone with HTTPS!”.



Then, I open my terminal (MacOS) or command prompt (Windows).

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

I type in the above command to clone the repository into my local machine (replace <username> with your own username which can be found by clicking my avatar on the top right of menu bar).

```
(base) G:\university\classes\202021-02\COMP1035-FSE\UNNC\Repository>git clone --bare  
https://csprojects.nottingham.edu.cn/z2019017/comp1035-template-repository.git  
Cloning into bare repository '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.
```

Type in the username and password. OK. Now I got the message saying cloning successfully. Next, I set my path to the git repository I just cloned by typing:

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

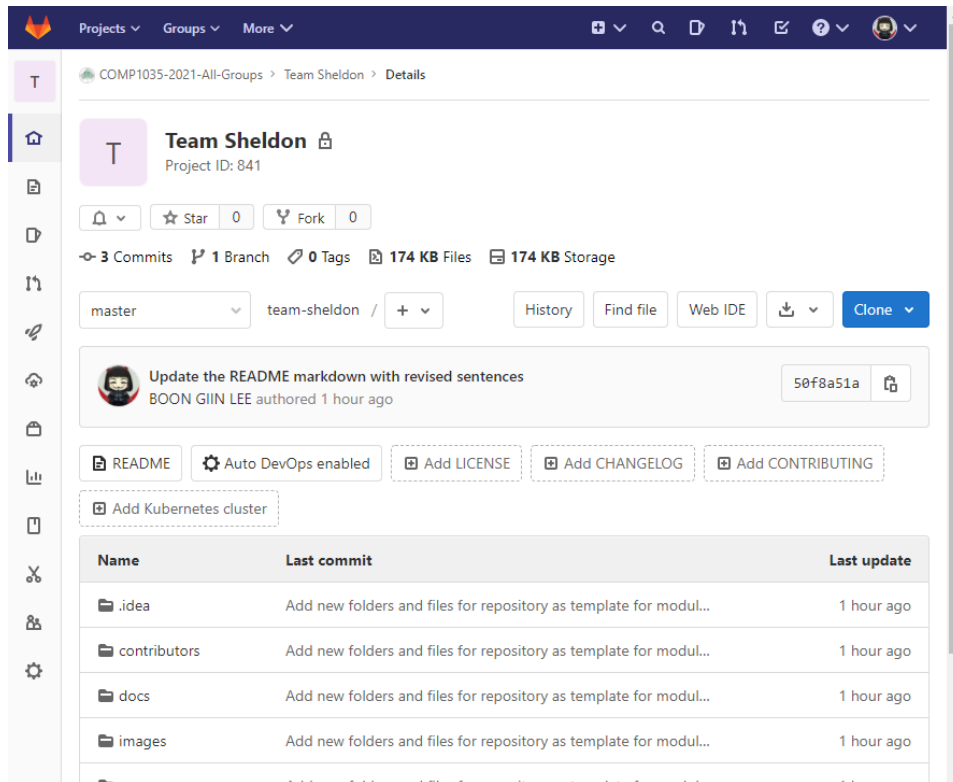
Now, I am going to push this cloned repository into my team repository by typing:

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

Replace the <team-name> with the name of your team repository. You can find the link of your team repository the same way I did just now by copy the link at “Clone with HTTPS”. Type in the username and password. Yeah! “Everything up-to-date!”.

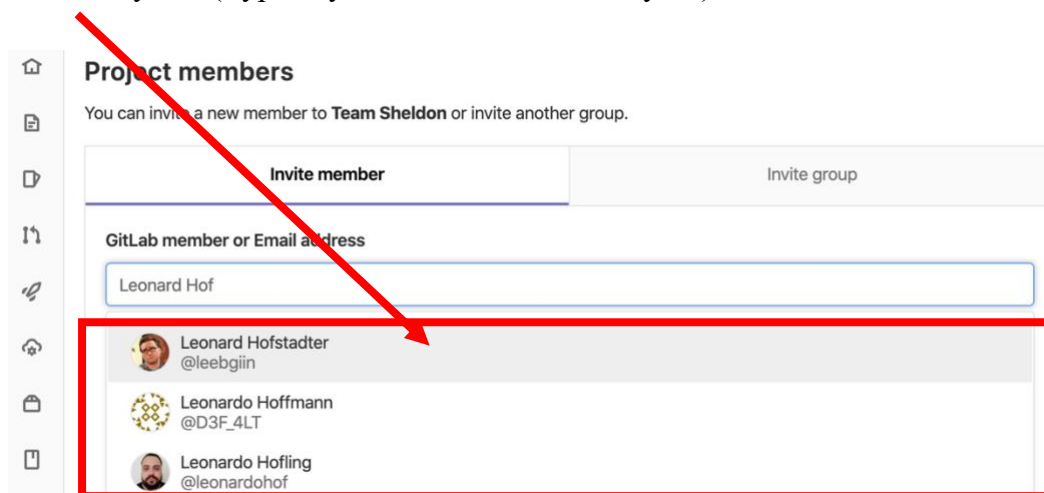
```
(base) G:\university\classes\202021-02\COMP1035-FSE\UNNC\Repository\comp1035-template-  
repository.git>git push --mirror https://csprojects.nottingham.edu.cn/comp1035-2021-  
all-groups/team-sheldon  
Username for 'https://csprojects.nottingham.edu.cn': z2019017  
Password for 'https://z2019017@csprojects.nottingham.edu.cn':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

Let go back to the team repository and have a look (refresh the page).



Yes! Seems like everything is in order. A big applause to Sheldon! Now, I can start to work on my repository now. Oh wait, where is my team members?!? I should add my team member into this project to work with. Click on the “**Project information**” then “**Members**” at the sidebar.

Sheldon: “Leonard, I am going to add you into my team, and I am assigning the **role permission** “**Maintainer**” to you.” (Type in your members’ university ID)



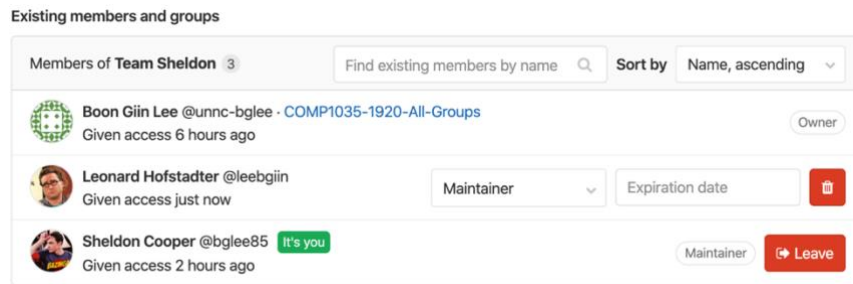
Leonard: “Oh wait, what?!? Sheldon, I don’t want to be in your team!”.

Sheldon: “You have no choice, is done.”.

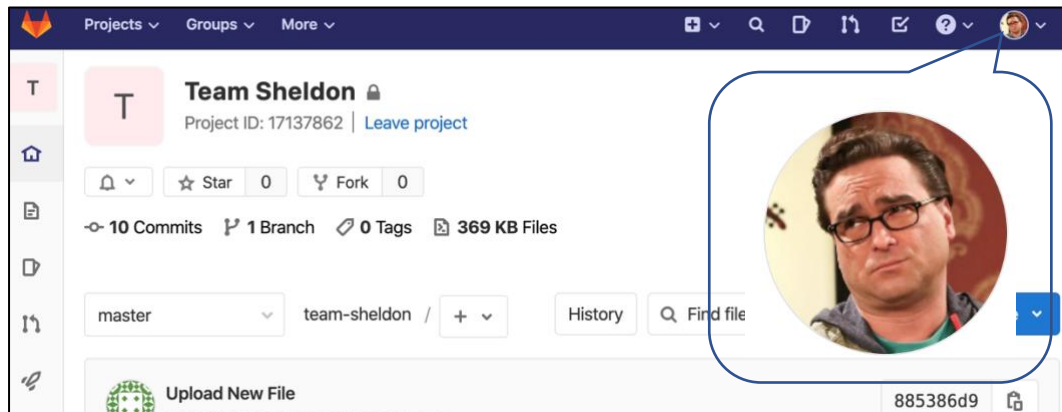
Leonard: “...”

Leonard, here the proof for you. You are officially in Team Sheldon!

Leonard: “No no no no ...”.



Leonard: “Let me check my GitLab repository”.



Leonard: “Indeed, I am in the team! I wish this is BAZINGA!”

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

Leonard: “Sheldon!!! Argghh ...!!!”

Task B

Hi everyone, I am Leonard Hofstadter, I am going to take over from here. I am going to clone the team repository into my local machine. First, navigate to a folder (any folder). Be aware of **NOT** having the repository cloned in “comp1035-template-repository”. I will go to my terminal by typing:

```
git clone https://csprojects.nottingham.edu.cn/<team-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
```

Type in the username and password. Yes. Unpacking 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
```

I am going to verify the folder is successfully cloned in my local machine. Yes, it is there. Let us set the path to the folder and open the folder.

```
cd team-sheldon
[Windows] start .
[MacOS] open .
```

Great, I have all I need here. That's all. We are done! Ooppss, I am late for the date. Penny is going to mad at me. Bye for now~!

