

Project 2

For the second activity you will contribute to a project. Here is the link to the repository, <https://github.com/HamoyeHQ/Version-ctrl-with-git.git>

1. Fork the repository.
2. Clone the repository, so you can have a copy of the repository on your local machine.
3. Create a new branch
4. Contribute
5. Stage changes
6. Commit changes
7. Create a pull request (PR)

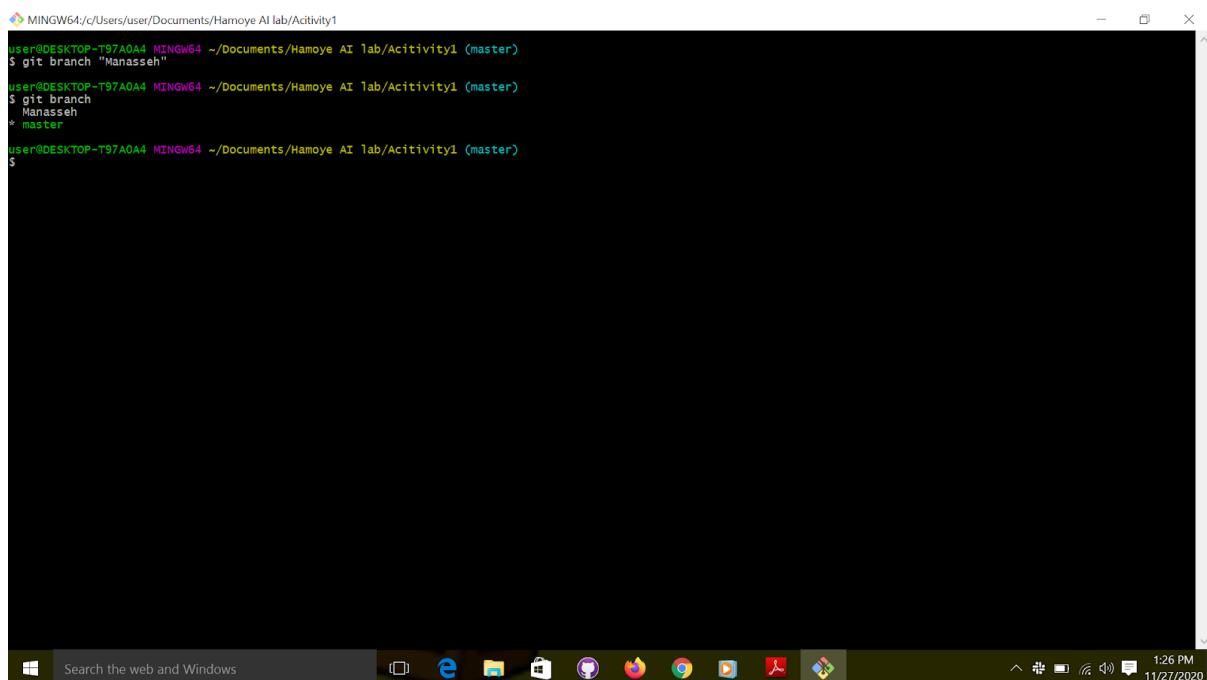
Solution

1. To "fork" the repository, go to the repository, click on "fork" and select which account to copy the repository to.
2. Copy the link to your version of the repository.
3. To clone the repository, go to the folder where you want the repository to be copied to and "git bash" here. Then run the command to clone a repository.

git clone url

4. Close the "git bash", open the cloned repository and do "git bash" here.
5. Create a branch. You can name the branch anything, but it's preferable to use your name. You can do this by running the command;

git branch branchname

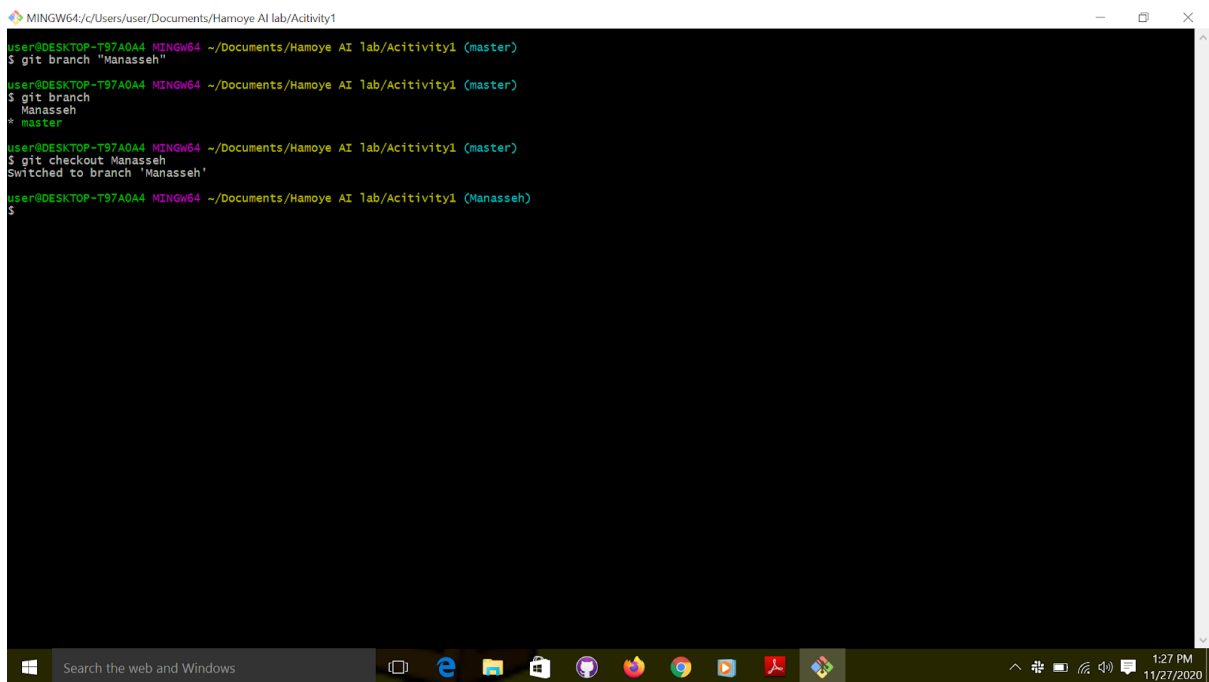


```
user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (master)
$ git branch "Manasseh"
user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (master)
$ git branch
* master
  Manasseh
user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (master)
$
```

Figure 60: create the branch

6. Switch to the new branch using the git checkout command;

Git checkout branch name

A terminal window titled 'MINGW64/c/Users/user/Documents/Hamoye AI lab/Activity1' showing the following commands and output:

```
user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (master)
$ git branch "Manasseh"

user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (master)
$ git branch
  Manasseh
* master

user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (master)
$ git checkout Manasseh
Switched to branch 'Manasseh'

user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (Manasseh)
$
```

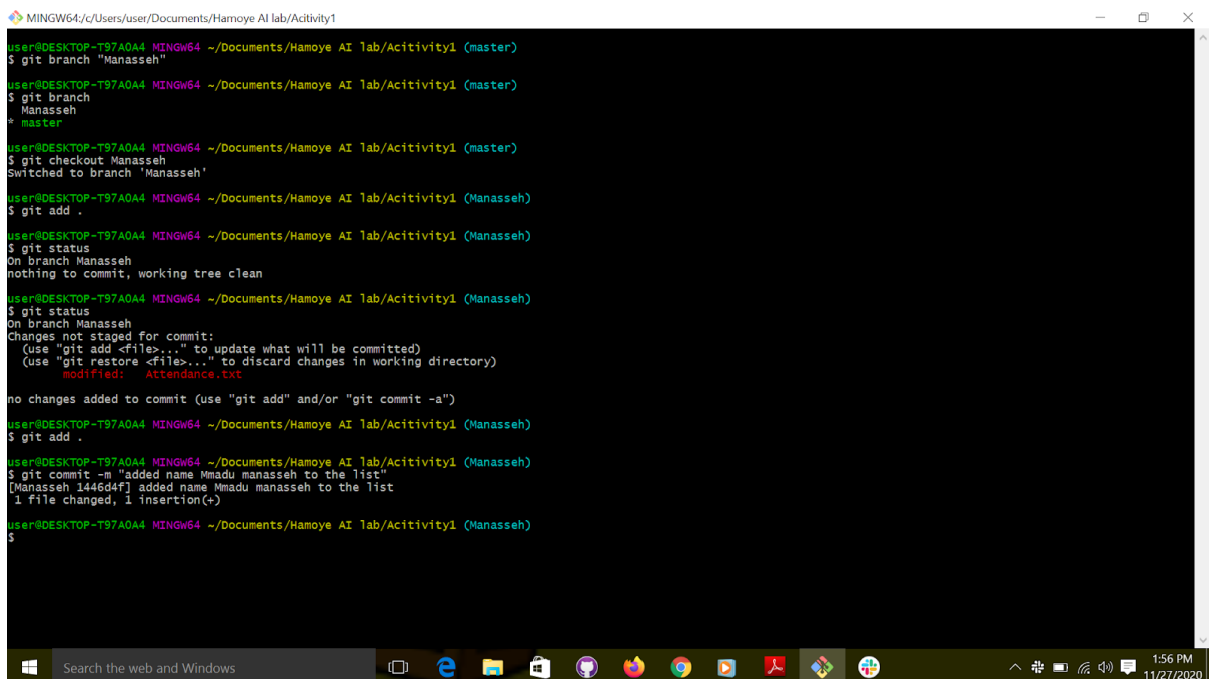
Figure 61: switching to the new branch

7. Edit the attendance.txt file using any text editor. Add your name to the list of names. Save and exit.

8. “git add” to stage the changes

“git add.”

9. “Git commit” to commit the changes,

A terminal window titled 'MINGW64/c/Users/user/Documents/Hamoye AI lab/Activity1' showing the following commands and output:

```
user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (master)
$ git branch "Manasseh"

user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (master)
$ git branch
  Manasseh
* master

user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (master)
$ git checkout Manasseh
Switched to branch 'Manasseh'

user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (Manasseh)
$ git add .

user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (Manasseh)
$ git status
On branch Manasseh
nothing to commit, working tree clean

user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (Manasseh)
$ git status
On branch Manasseh
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   Attendance.txt

no changes added to commit (use "git add" and/or "git commit -a")

user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (Manasseh)
$ git add .

user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (Manasseh)
$ git commit -m "added name Mmadu manasseh to the list"
[Manasseh 1446d4f] added name Mmadu manasseh to the list
1 file changed, 1 insertion(+)

user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (Manasseh)
$
```

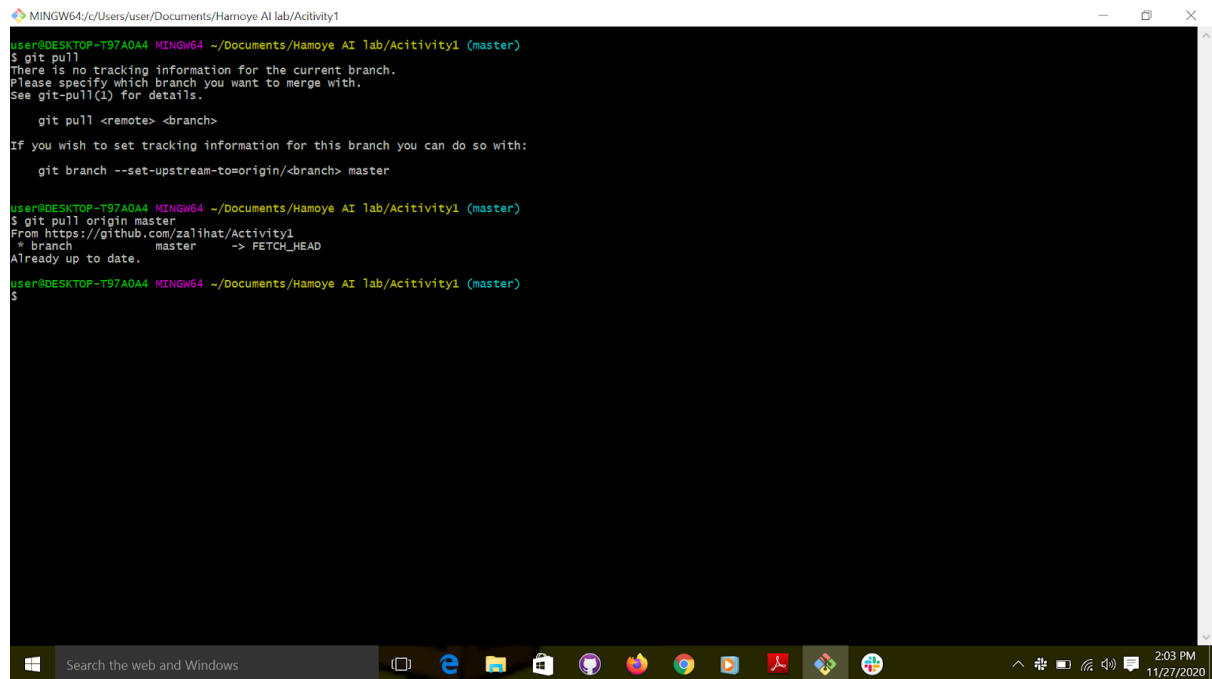
Figure 62: make changes to the repository, stage and commit changes.

10. Switch to the master branch

git checkout master.

11. Pull changes so that your copy can be up to date with the remote repository.

Git pull origin master



```
MINGW64/c/Users/user/Documents/Hamoye AI lab/Activity1
user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (master)
$ git pull
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.

    git pull <remote> <branch>

If you wish to set tracking information for this branch you can do so with:

    git branch --set-upstream-to=origin/<branch> master

user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (master)
$ git pull origin master
From https://github.com/zalihat/Activity1
* branch      master       -> FETCH_HEAD
Already up to date.

user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (master)
$
```

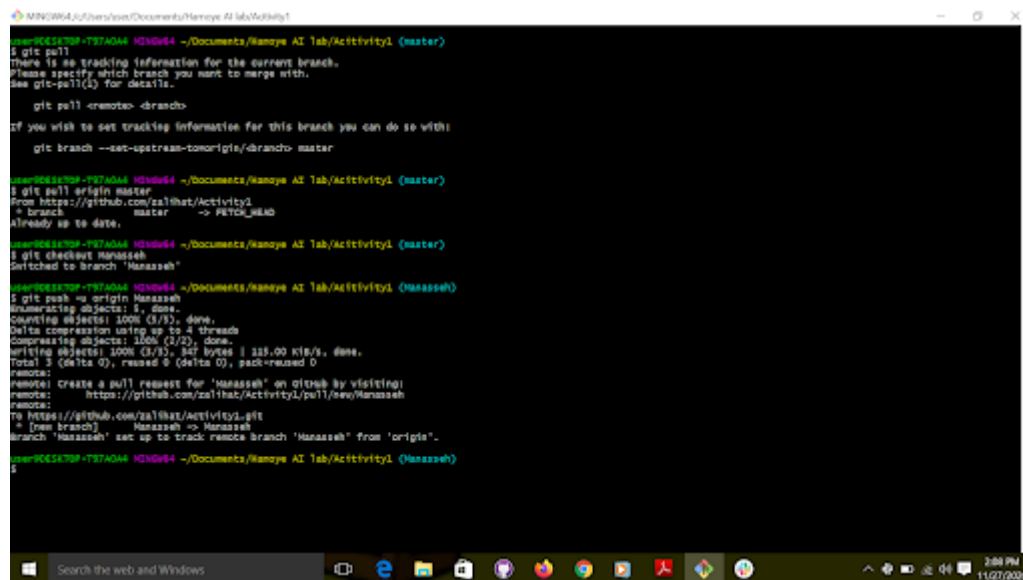
Figure 63: Pull changes

12. Push your branch to the remote repository.

First switch back to your new branch

Then push

Git push -u origin branch name



```
MINGW64/c/Users/user/Documents/Hamoye AI lab/Activity1
user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (master)
$ git pull
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.

    git pull <remote> <branch>

If you wish to set tracking information for this branch you can do so with:

    git branch --set-upstream-to=origin/<branch> master

user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (master)
$ git pull origin master
From https://github.com/zalihat/Activity1
* branch      master       -> FETCH_HEAD
Already up to date.

user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (master)
$ git checkout Manasseh
Switched to branch 'Manasseh'

user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (Manasseh)
$ git push -u origin Manasseh
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 113 bytes | 113.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote: Create a pull request for 'Manasseh' on GitHub by visiting:
remote:   https://github.com/zalihat/Activity1/pull/new/Manasseh
remote:
remote:   https://github.com/zalihat/Activity1.git
* [new branch]   Manasseh -> Manasseh
branch 'Manasseh' set up to track remote branch 'Manasseh' from 'origin'.

user@DESKTOP-T97A0A4 MINGW64 ~/Documents/Hamoye AI lab/Activity1 (Manasseh)
$
```

Figure 64:

push changes to the local repository.

Yes, we just pushed to the remote repository, but we need to create a PR to notify the owner of the repository that we want to make changes,

13. Make a Pull request (PR).

If you check the message after the push command, you will get the link to create the pull. For example,

<https://github.com/zalihat/Version-ctrl-with-git/pull/new/attendance>

14. Follow the link to create a PR

The link will look like this;

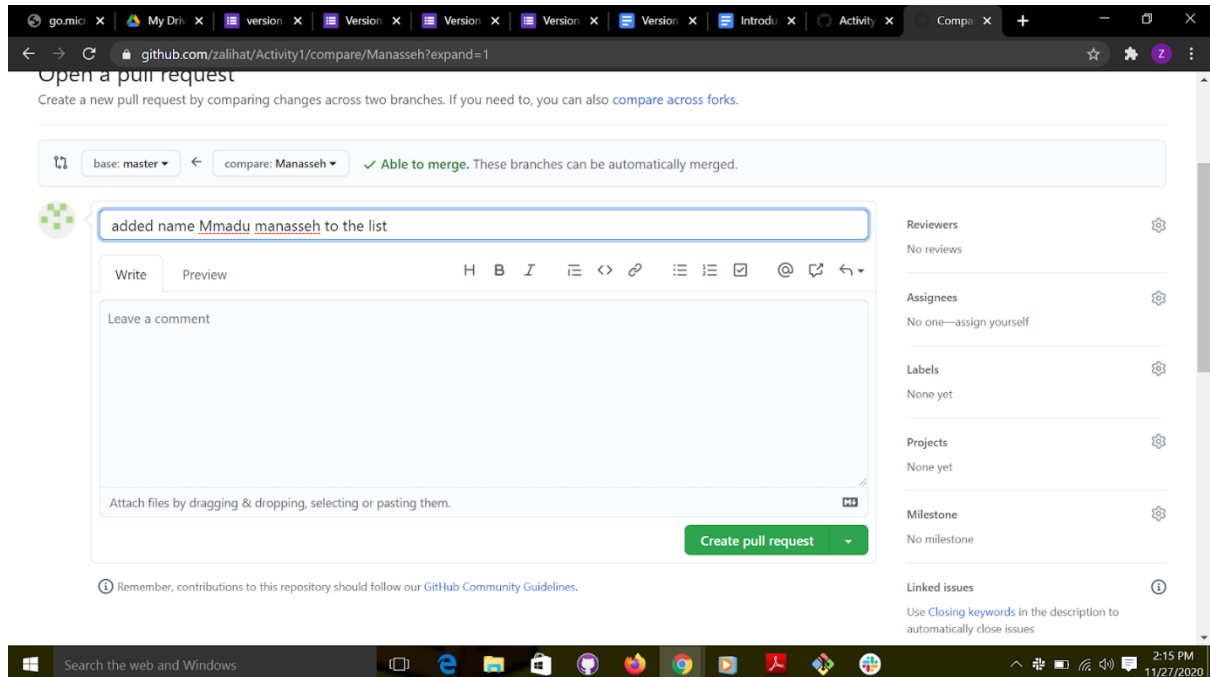


Figure 65: Create a pull request.

Create the Pull request and wait for the reviewer to merge your pull request.

You will get a notification once your pull request has been merged.

Congratulations, you have successfully contributed to another person's repo. This is how you contribute to open source projects.