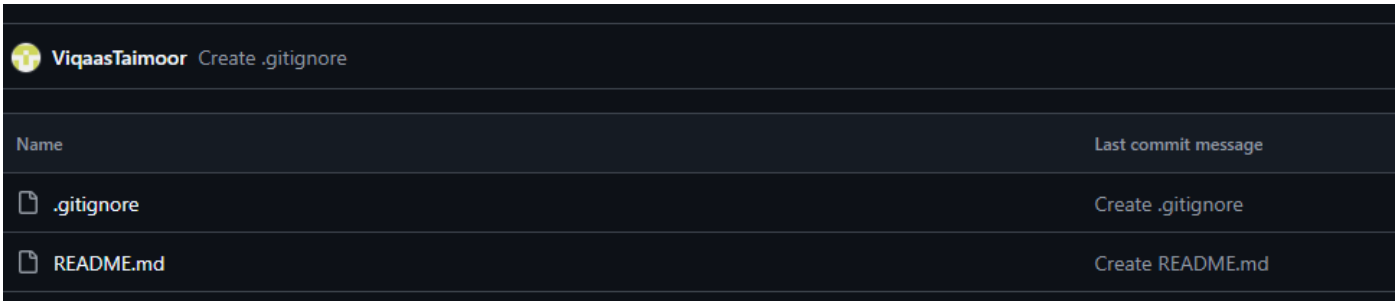
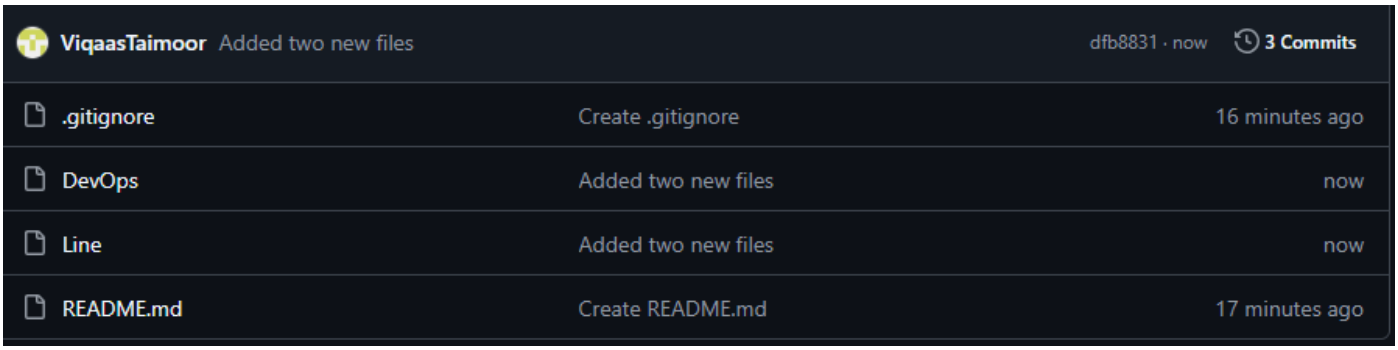
Git & Git Hub Tasks

- Install Git.
- Create a repo in github with README.md and .ignore file.

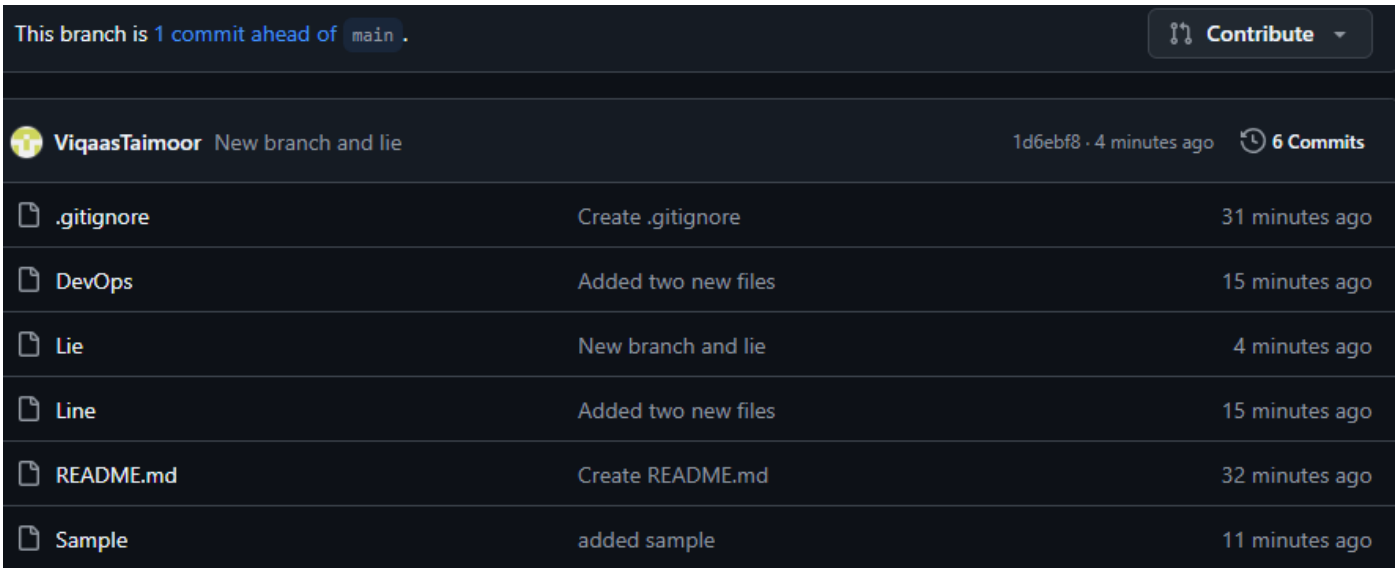


- Clone the created repo to local.

- Create two files in local repo.
- Commit two files and push to central Repository.



- Create a branch in local and create a sample file and push to central.



Git & Git Hub Tasks

- Create a branch in github and clone that to local.

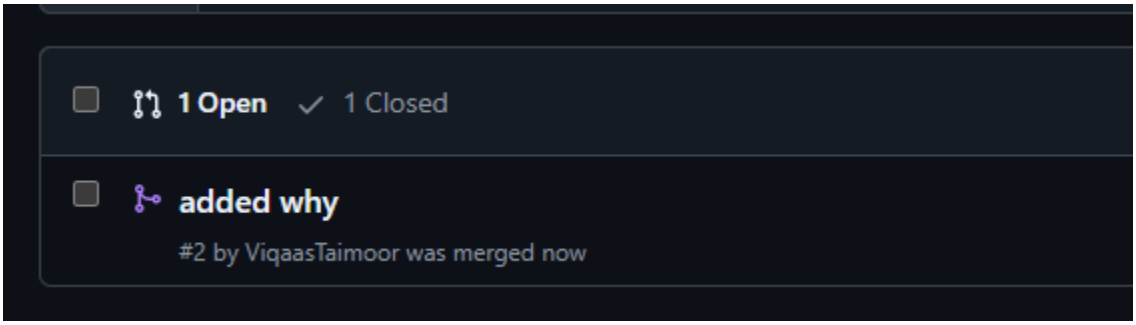
```
Viqaas@LAPTOP-VGO25G9U MINGW64 ~/Desktop/Testing/Testing (Polo)
$ git branch --list
  New
* Polo
  main
```

- Merge the created branch with master in git local.

```
Viqaas@LAPTOP-VGO25G9U MINGW64 ~/Desktop/Testing/Testing (main)
$ git merge Polo
Updating 290717a..aa709de
Fast-forward
 killer | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 killer

Viqaas@LAPTOP-VGO25G9U MINGW64 ~/Desktop/Testing/Testing (main)
$ ls
DevOps  Line  README.md  Sample  killer
```

- Merge the created branch with master in github by sending a pull request.



- Create a file in local and send that to branch in github.

```
$ git log
commit 9929b1395a5ddd6acd8c69ce5e00f76e0bffd25e (HEAD -> Polo,
Polo)
Author: ViqaasTaimoor <viqaastaimoor@gmail.com>
Date:   Fri Dec 26 13:15:36 2025 +0530

    added fighter
```

Git & Git Hub Tasks

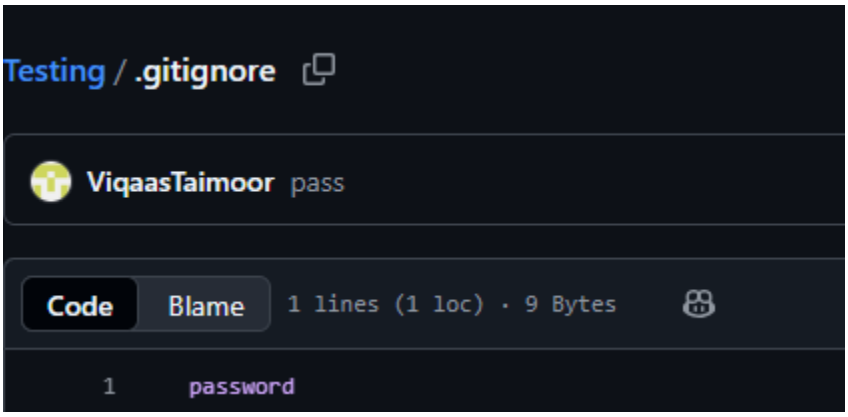
- Clone only a branch from github to local.

```
Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Polo)
$ git branch --list
  New
* Polo
  main

Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Polo)
$ git checkout -b Marco origin/Marco
Switched to a new branch 'Marco'
branch 'Marco' set up to track 'origin/Marco'.

Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ ls
DevOps  Line  README.md  Sample  Why  killer
```

- Create a file with all passwords and make that untrackable with git.



Git & Git Hub Tasks

- Make a commit and make that commit reset without savings changes.

```
Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ git log -1
commit d6716c4b4de8e69aa069275f1e399de7543f8989 (HEAD -> Marco)
Author: ViqaasTaimoor <viqaastaimoor@gmail.com>
Date:   Fri Dec 26 13:23:41 2025 +0530

    added reset

Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ git reset --hard HEAD~1
HEAD is now at 1516b85 pass

Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ git log -1
commit 1516b85fa8ac7022517e59c5f638dec7830f3e6b (HEAD -> Marco, origin
/Marco)
Author: ViqaasTaimoor <viqaastaimoor@gmail.com>
Date:   Fri Dec 26 13:21:18 2025 +0530

    pass

Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ ls
DevOps  Line  README.md  Sample  Why  killer  password
```

- Revert a commited commit to the older version.

```
Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ git log -1
commit 4316a7c843ec98e482ff3a84fc46a7f026793cb2 (HEAD -> Marco)
Author: ViqaasTaimoor <viqaastaimoor@gmail.com>
Date:   Fri Dec 26 13:26:59 2025 +0530

    added revert

Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ git revert 4316a
[Marco 6a7caf3] Revert "added revert"
 1 file changed, 0 insertions(+), 0 deletions(-)
 delete mode 100644 revert

Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ ls
DevOps  Line  README.md  Sample  Why  killer  password

Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ git log -1
commit 6a7caf3fc2ad19c667e9545a71ec816f722918bc (HEAD -> Marco)
Author: ViqaasTaimoor <viqaastaimoor@gmail.com>
Date:   Fri Dec 26 13:27:32 2025 +0530

    Revert "added revert"

    This reverts commit 4316a7c843ec98e482ff3a84fc46a7f026793cb2.
```

Git & Git Hub Tasks

- Push a file to stash without savings the changes and work on another file.

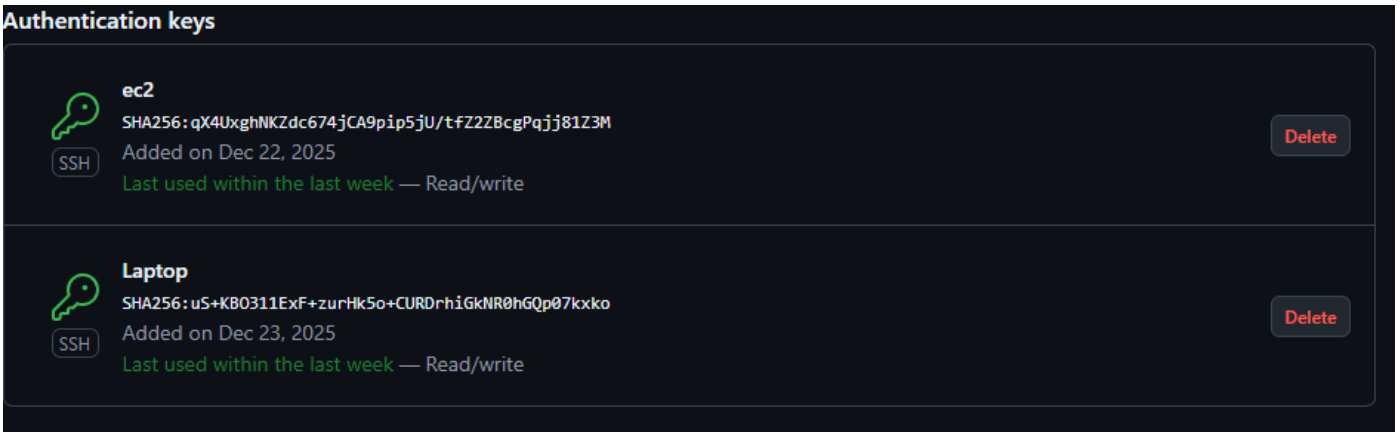
```
Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ git stash list
stash@{0}: WIP on Marco: 6a7caf3 Revert "added revert"
```

- Undo the stash file and start working on that again.

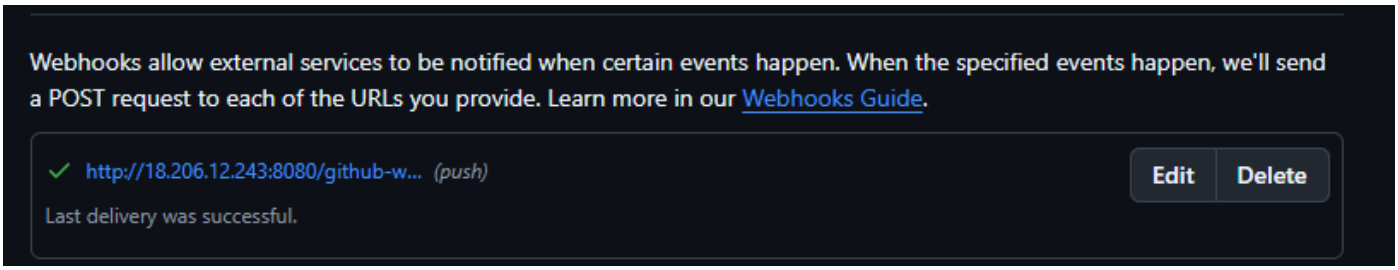
```
Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ git restore --source=stash@{0} local

Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ ls
DevOps  Line  README.md  Sample  Why  killer  local  password
```

- Generate a ssh-keygen and configure it into github.



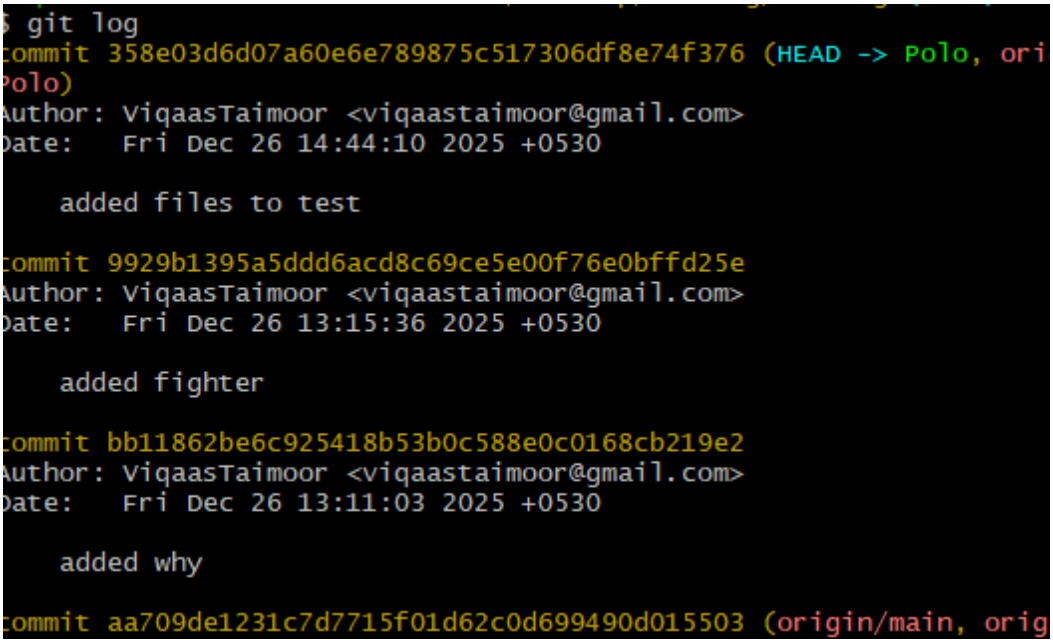
- Configure webhooks to github.

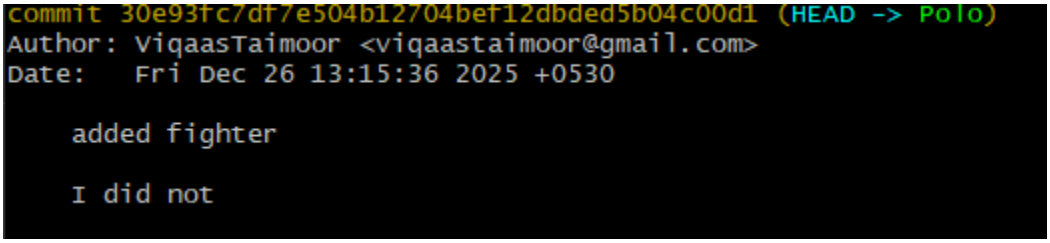


- Basic understanding of .git file: The .git directory is a hidden folder that stores the entire version history, configuration, and metadata of a Git repository.

Git & Git Hub Tasks

- Check all the logs of git.



- Rename the commit message.

- Merge multiple commits into single commit.