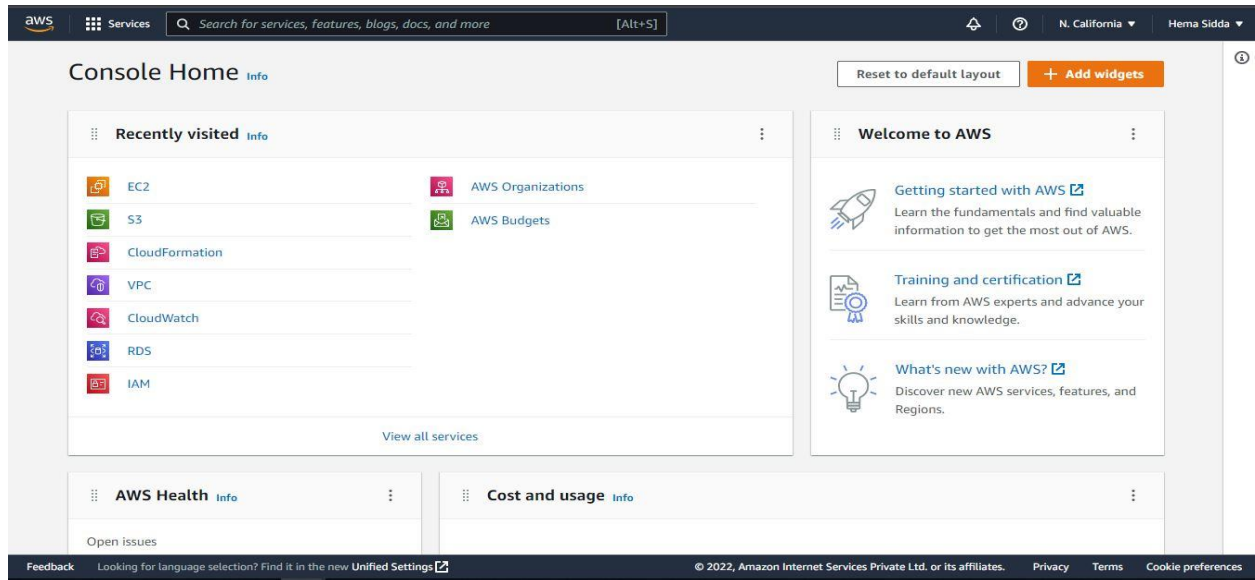


GIT-Version Control system(vcs)

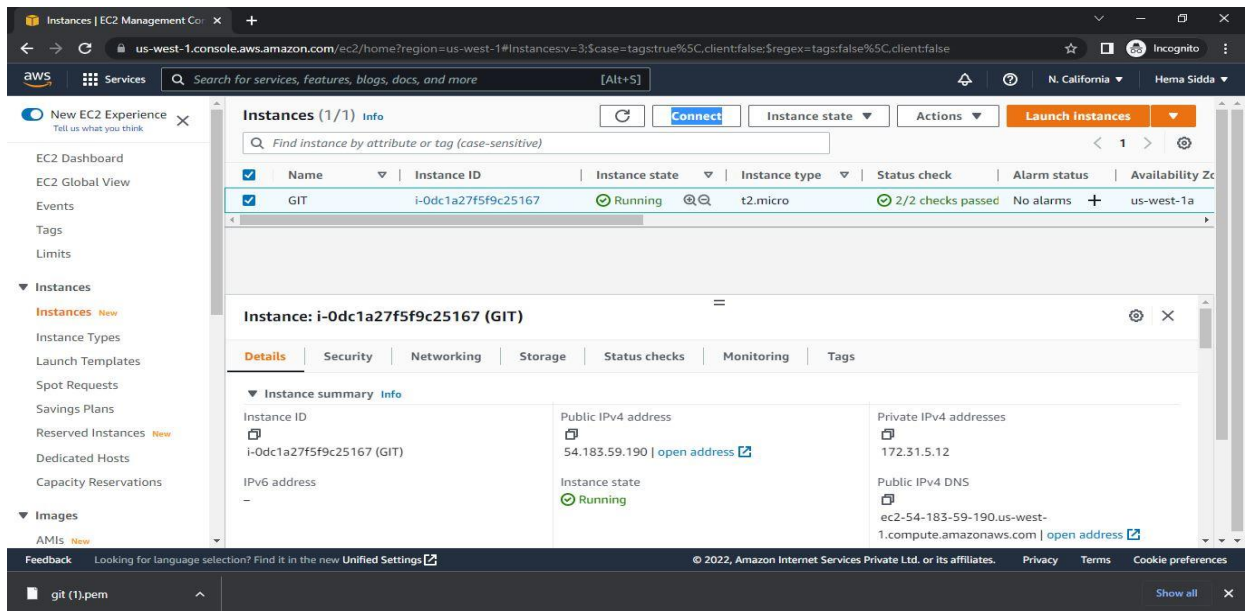
LAB-1

Creating EC2 Instances:

- Login to the AWS account.



- Create the ec2 instance with Amazon-Linux(AMI) with SSH(22) at Security group.



SHAIK.GOUSE RABBANI

GIT-Version Control system(vcs)

- Install Git-bash and Connect the local machine to virtual server by using SSH command of created instance.

```
ec2-user@ip-172-31-6-170:~
acer@DESKTOP-ONJL693 MINGW64 ~
$ cd D
Desktop/ Documents/ Downloads/
acer@DESKTOP-ONJL693 MINGW64 ~
$ cd D
Desktop/ Documents/ Downloads/
acer@DESKTOP-ONJL693 MINGW64 ~
$ cd D
Desktop/ Documents/ Downloads/
acer@DESKTOP-ONJL693 MINGW64 ~
$ cd D
Documents/ Downloads/
acer@DESKTOP-ONJL693 MINGW64 ~
$ cd Downloads
acer@DESKTOP-ONJL693 MINGW64 ~/Downloads
$ ssh -i "gitr.pem" ec2-user@ec2-54-177-31-15.us-west-1.compute.amazonaws.com
The authenticity of host 'ec2-54-177-31-15.us-west-1.compute.amazonaws.com (54.177.31.15)' can't be established.
ED25519 key fingerprint is SHA256:vkjD5JFvSMYt5BN16ME2dVNBfWjOUSHGuOp18+FE.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-54-177-31-15.us-west-1.compute.amazonaws.com' (ED25519) to the list of known hosts.
_ _ _ _ _
| | | | |
|_|_|_|_|_| Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-6-170 ~]$
```

LAB-2

Create Repo In Local Manchine:

- Create the empty directory and initialize it by using git init command.

```
ec2-user@ip-172-31-11-143:~/social
Total download size: 9.3 M
Installed size: 40 M
Downloading packages:
(1/6): git-2.37.1-1.amzn2.0.1.x86_64.rpm | 71 kB 00:00:00
(2/6): git-core-doc-2.37.1-1.amzn2.0.1.noarch.rpm | 2.8 MB 00:00:00
(3/6): git-core-2.37.1-1.amzn2.0.1.x86_64.rpm | 6.4 MB 00:00:00
(4/6): perl-Error-0.17020-2.amzn2.noarch.rpm | 32 kB 00:00:00
(5/6): perl-Git-2.37.1-1.amzn2.0.1.noarch.rpm | 46 kB 00:00:00
(6/6): perl-TermReadKey-2.30-20.amzn2.0.2.x86_64.rpm | 31 kB 00:00:00
-----
Total | 35 MB/s | 9.3 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : git-core-2.37.1-1.amzn2.0.1.x86_64 1/6
Installing : git-core-doc-2.37.1-1.amzn2.0.1.noarch 2/6
Installing : 1perl-Error-0.17020-2.amzn2.noarch 3/6
Installing : perl-TermReadKey-2.30-20.amzn2.0.2.x86_64 4/6
Installing : perl-Git-2.37.1-1.amzn2.0.1.noarch 5/6
Installing : git-2.37.1-1.amzn2.0.1.x86_64 6/6
Verifying : perl-TermReadKey-2.30-20.amzn2.0.2.x86_64 1/6
Verifying : git-core-doc-2.37.1-1.amzn2.0.1.noarch 2/6
Verifying : perl-Git-2.37.1-1.amzn2.0.1.noarch 3/6
Verifying : git-2.37.1-1.amzn2.0.1.x86_64 4/6
Verifying : git-core-2.37.1-1.amzn2.0.1.x86_64 5/6
Verifying : 1perl-Error-0.17020-2.amzn2.noarch 6/6
Installed:
git.x86_64 0:2.37.1-1.amzn2.0.1
Dependency Installed:
git-core.x86_64 0:2.37.1-1.amzn2.0.1 git-core-doc.noarch 0:2.37.1-1.amzn2.0.1 perl-Error.noarch 1:0.17020-2.amzn2 perl-Git.noarch 0:2.37.1-1.amzn2.0.1
perl-TermReadKey.x86_64 0:2.30-20.amzn2.0.2
Complete!
[ec2-user@ip-172-31-11-143 ~]$ ls
social
[ec2-user@ip-172-31-11-143 ~]$ cd social/
[ec2-user@ip-172-31-11-143 social]$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint: git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint: git branch -m <name>
Initialized empty Git repository in /home/ec2-user/social/.git/
[ec2-user@ip-172-31-11-143 social]$
```

GIT-Version Control system(vcs)

- Create the file in vi mode along with some data by using command as
 - a. vi <filename.html or .txt>
- Add and commit the created file by using command as
 - a. git add <filename>
 - b. git commit -m "file information" <filename>
- Now check git status and git branch by using command as
 - a. git status
 - b. git branch

Check the created file tracked by git or not by using command as

- a. git ls-files

```
ec2-user@ip-172-31-11-143:~/social
Complete!
[ec2-user@ip-172-31-11-143 ~]$ ls
social
[ec2-user@ip-172-31-11-143 ~]$ cd social/
[ec2-user@ip-172-31-11-143 social]$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/ec2-user/social/.git/
[ec2-user@ip-172-31-11-143 social]$ vi index.html
[ec2-user@ip-172-31-11-143 social]$ cat index.html
hai hello how are you
[ec2-user@ip-172-31-11-143 social]$ git add index.html
[ec2-user@ip-172-31-11-143 social]$ git commit -m "this is for testting file" index.html
[master (root-commit) 2d6f24b] this is for testting file
Committer: EC2 Default User <ec2-user@ip-172-31-11-143.us-west-1.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

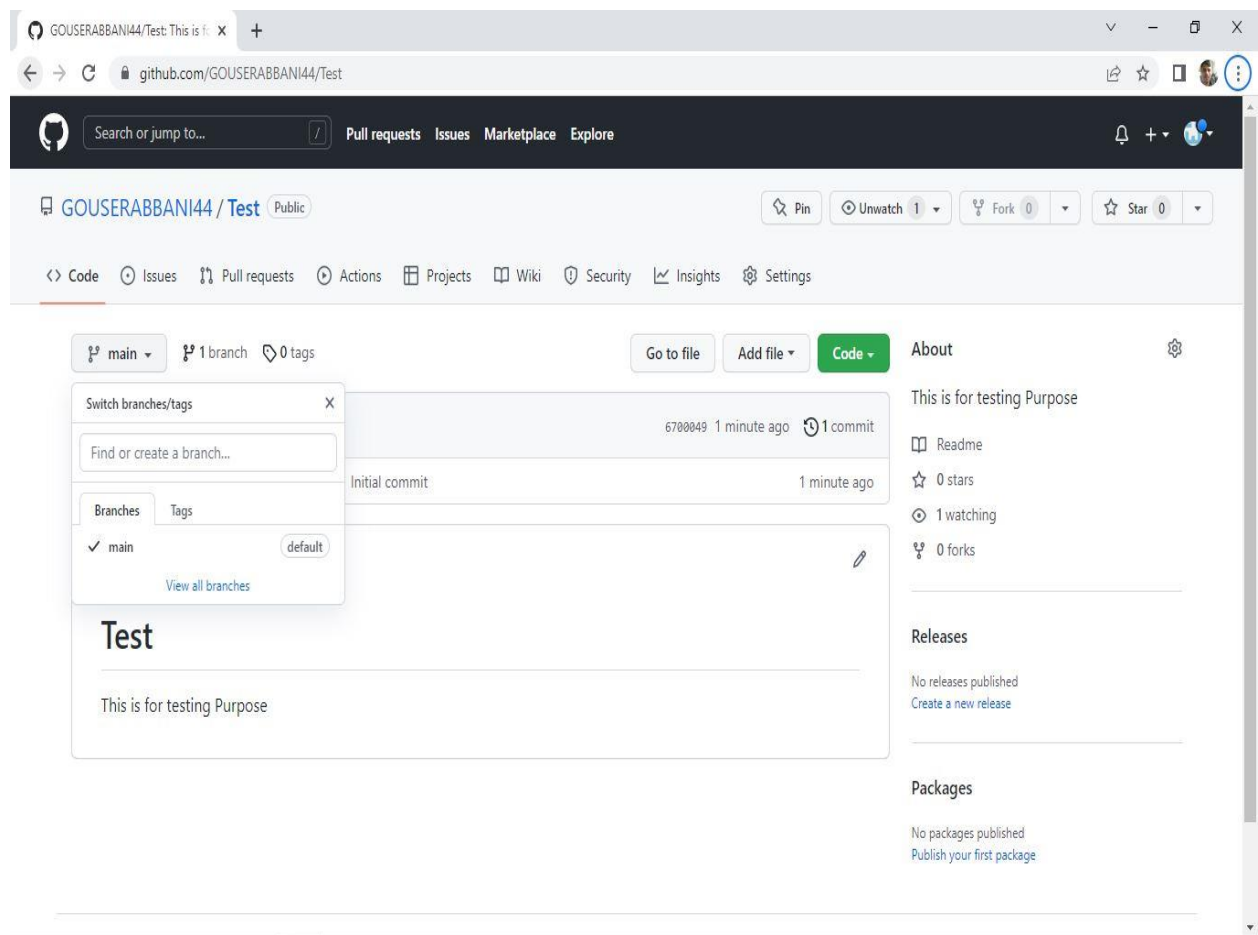
1 file changed, 1 insertion(+)
 create mode 100644 index.html
[ec2-user@ip-172-31-11-143 social]$ ls
index.html
[ec2-user@ip-172-31-11-143 social]$ git branch
* master
[ec2-user@ip-172-31-11-143 social]$ ls
index.html
[ec2-user@ip-172-31-11-143 social]$ git ls-files
index.html
[ec2-user@ip-172-31-11-143 social]$ git status
On branch master
nothing to commit, working tree clean
[ec2-user@ip-172-31-11-143 social]$
```

GIT-Version Control system(vcs)

LAB-3

Creating repo in remote location-github:

- Go to Git-hub account and go to new select it and create a repository with selecting README.md file.
- Finally the repository created in remote location Git-hub.

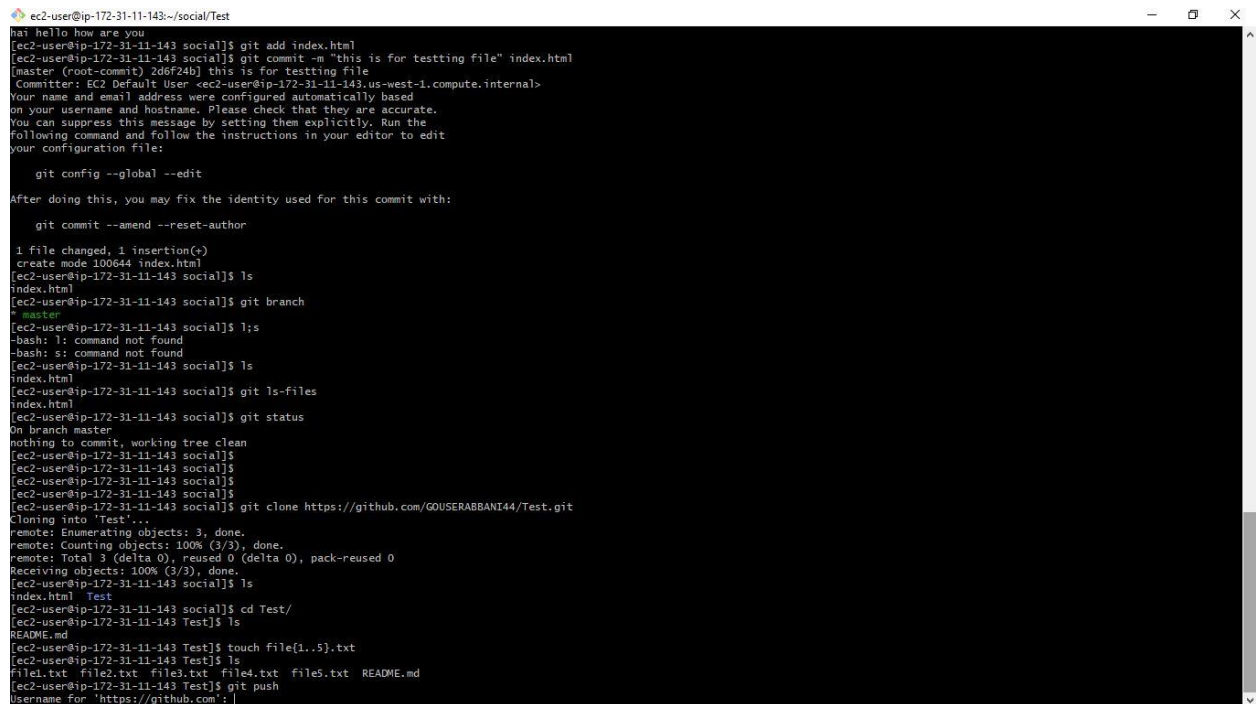


GIT-Version Control system(vcs)

LAB-4

Working on remote repo:

- Clone the repository to local machine from github by using command as
 - a. `git clone <the https url link of repository>`



```
ec2-user@ip-172-31-11-143:~/social/Test
$ cat hello how are you
[ec2-user@ip-172-31-11-143 social]$ git add index.html
[ec2-user@ip-172-31-11-143 social]$ git commit -m "this is for testing file" index.html
[master (root-commit) 2d6f24b] this is for testing file
Committer: EC2 Default User <ec2-user@ip-172-31-11-143.us-west-1.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

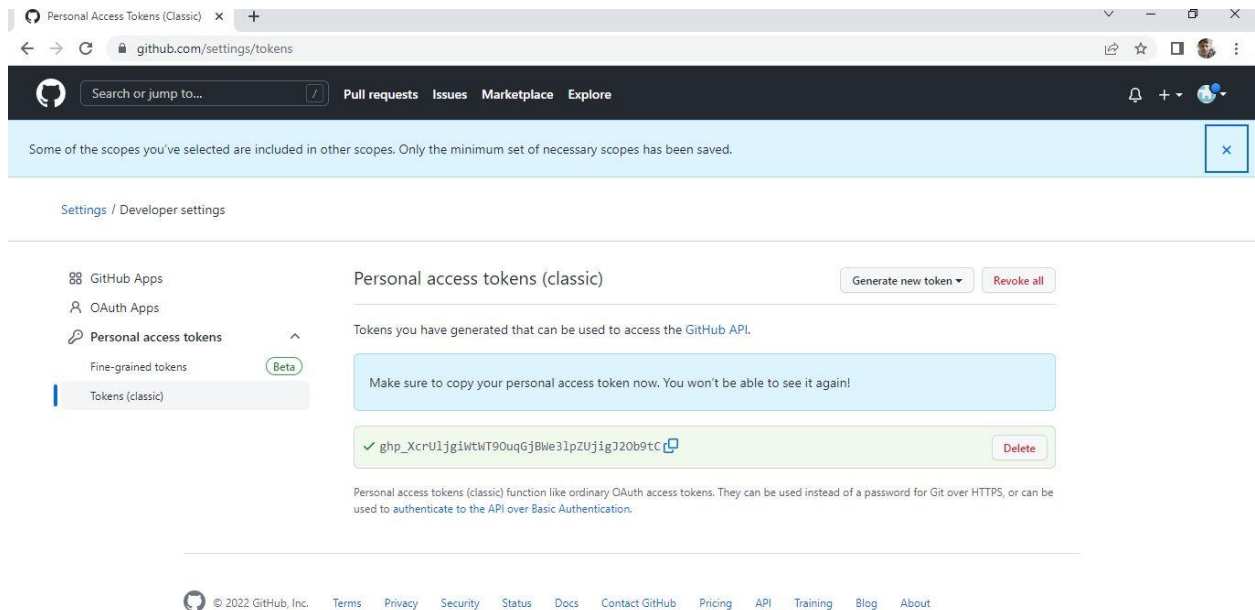
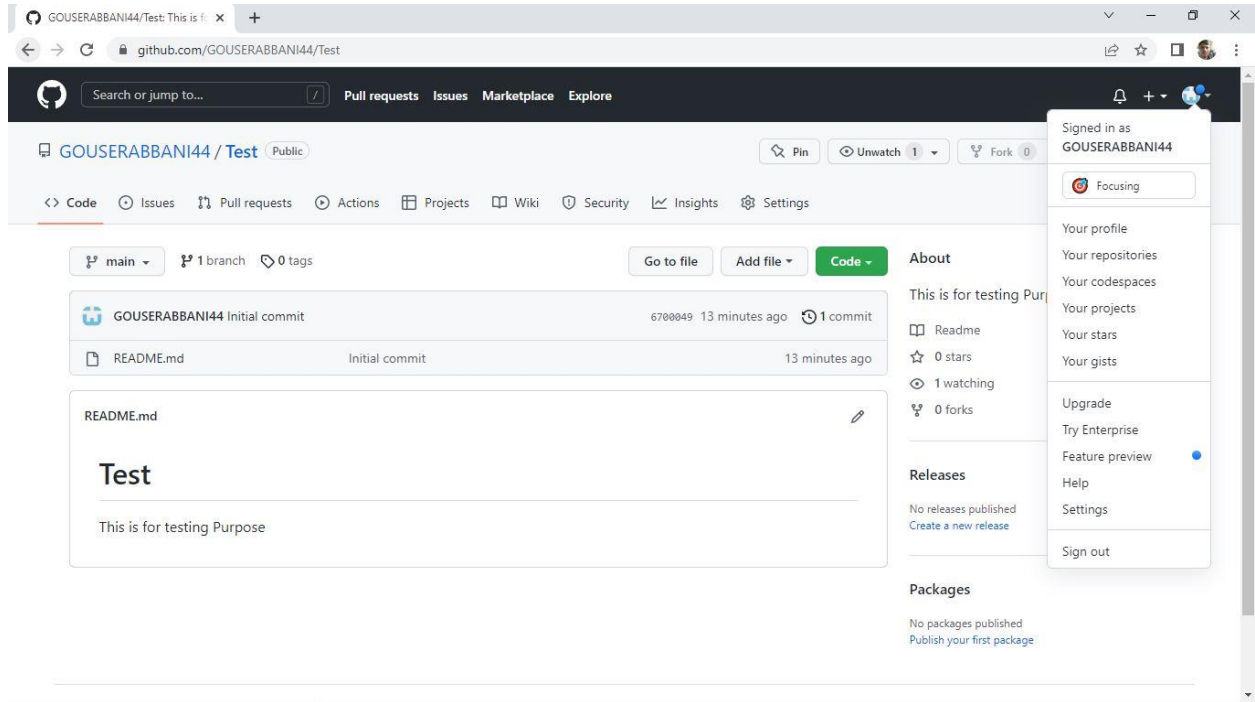
After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 1 insertion(+)
create mode 100644 index.html
[ec2-user@ip-172-31-11-143 social]$ ls
index.html
[ec2-user@ip-172-31-11-143 social]$ git branch
* master
[ec2-user@ip-172-31-11-143 social]$ ls
-bash: ls: command not found
-bash: $: command not found
[ec2-user@ip-172-31-11-143 social]$ ls
index.html
[ec2-user@ip-172-31-11-143 social]$ git ls-files
index.html
[ec2-user@ip-172-31-11-143 social]$ git status
On branch master
nothing to commit, working tree clean
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$ git clone https://github.com/GOUSERABBANI44/Test.git
Cloning into 'Test'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
[ec2-user@ip-172-31-11-143 social]$ ls
index.html  Test
[ec2-user@ip-172-31-11-143 social]$ cd Test/
[ec2-user@ip-172-31-11-143 Test]$ ls
README.md
[ec2-user@ip-172-31-11-143 Test]$ touch file[1..5].txt
[ec2-user@ip-172-31-11-143 Test]$ ls
file1.txt  file2.txt  file3.txt  file4.txt  file5.txt  README.md
[ec2-user@ip-172-31-11-143 Test]$ git push
Username for 'https://github.com':
```

- Create a file and add it and commit it and finally push it by using PAT(Personal Access Token).
- Now go to the github account and go to settings, and go to developers setting and click on generate token by giving expire date.

GIT-Version Control system(vcs)



GIT-Version Control system(vcs)

```
ec2-user@ip-172-31-11-143:~/Rabbani$ ls
README.md
[ec2-user@ip-172-31-11-143 Rabbani]$ touch file1.txt
[ec2-user@ip-172-31-11-143 Rabbani]$ git add file1.txt
[ec2-user@ip-172-31-11-143 Rabbani]$ git commit -m "new file for testing"
(main 40ac88c) new file for testing
Committer: EC2 Default User <ec2-user@ip-172-31-11-143.us-west-1.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

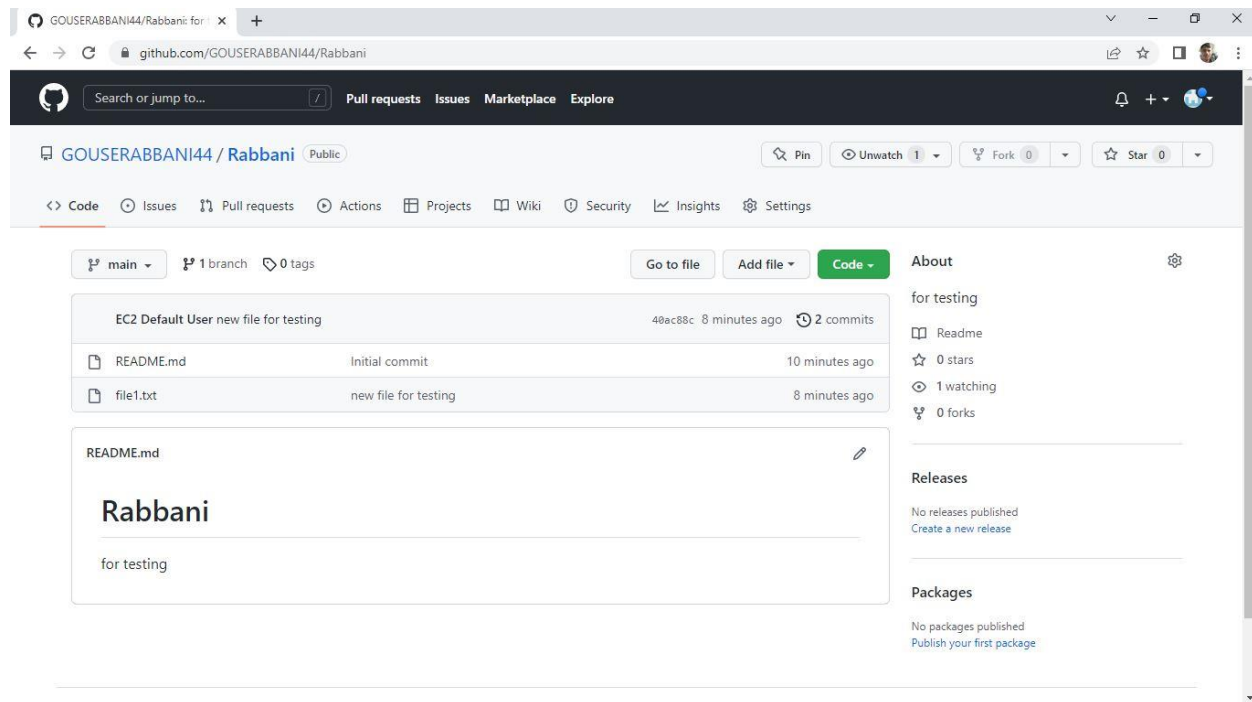
    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file1.txt
[ec2-user@ip-172-31-11-143 Rabbani]$ git branch
* main
[ec2-user@ip-172-31-11-143 Rabbani]$ git push
Username for 'https://github.com': gouserabbani44
Password for 'https://gouserabbani44@github.com':
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/en/get-started/getting-started-with-git/about-remote-repositories#cloning-with-https-urls for information on currently recommended modes of authentic
ation.
fatal: Authentication failed for 'https://github.com/GOUSERABBANI44/Rabbani.git/'
[ec2-user@ip-172-31-11-143 Rabbani]$
[ec2-user@ip-172-31-11-143 Rabbani]$
[ec2-user@ip-172-31-11-143 Rabbani]$
[ec2-user@ip-172-31-11-143 Rabbani]$
[ec2-user@ip-172-31-11-143 Rabbani]$ git push
Username for 'https://github.com': gouserabbani44
Password for 'https://gouserabbani44@github.com':
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/en/get-started/getting-started-with-git/about-remote-repositories#cloning-with-https-urls for information on currently recommended modes of authentic
ation.
fatal: Authentication failed for 'https://github.com/GOUSERABBANI44/Rabbani.git/'
[ec2-user@ip-172-31-11-143 Rabbani]$ git push
Username for 'https://github.com': gouserabbani44
Password for 'https://gouserabbani44@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 312 bytes | 312.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/GOUSERABBANI44/Rabbani.git
   0a3fcca..40ac88c  main -> main
[ec2-user@ip-172-31-11-143 Rabbani]$
```

- Finally the main branch files are pushed from local machine to github.



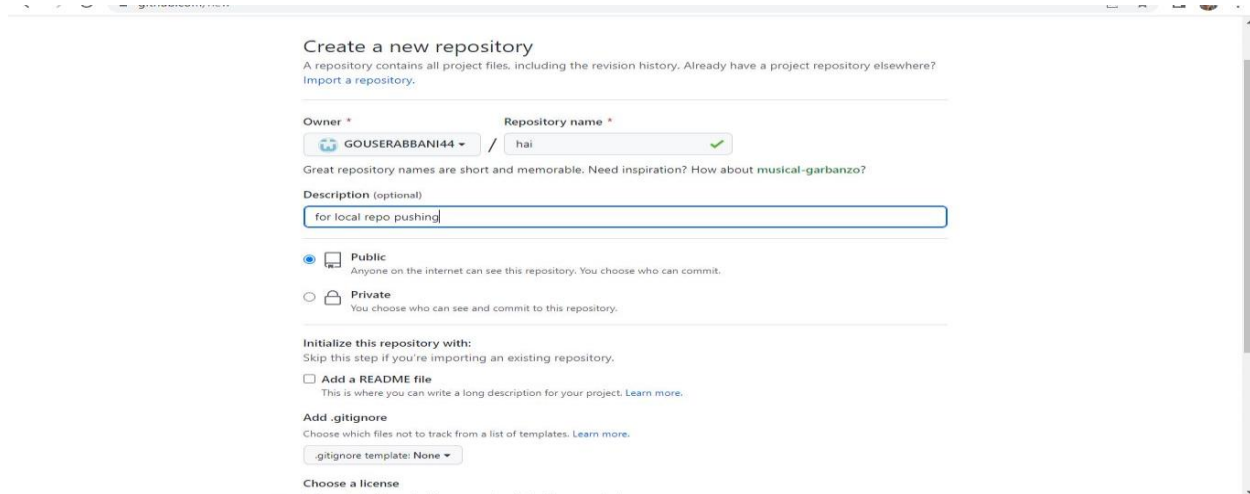
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GIT-Version Control system(vcs)

LAB-5

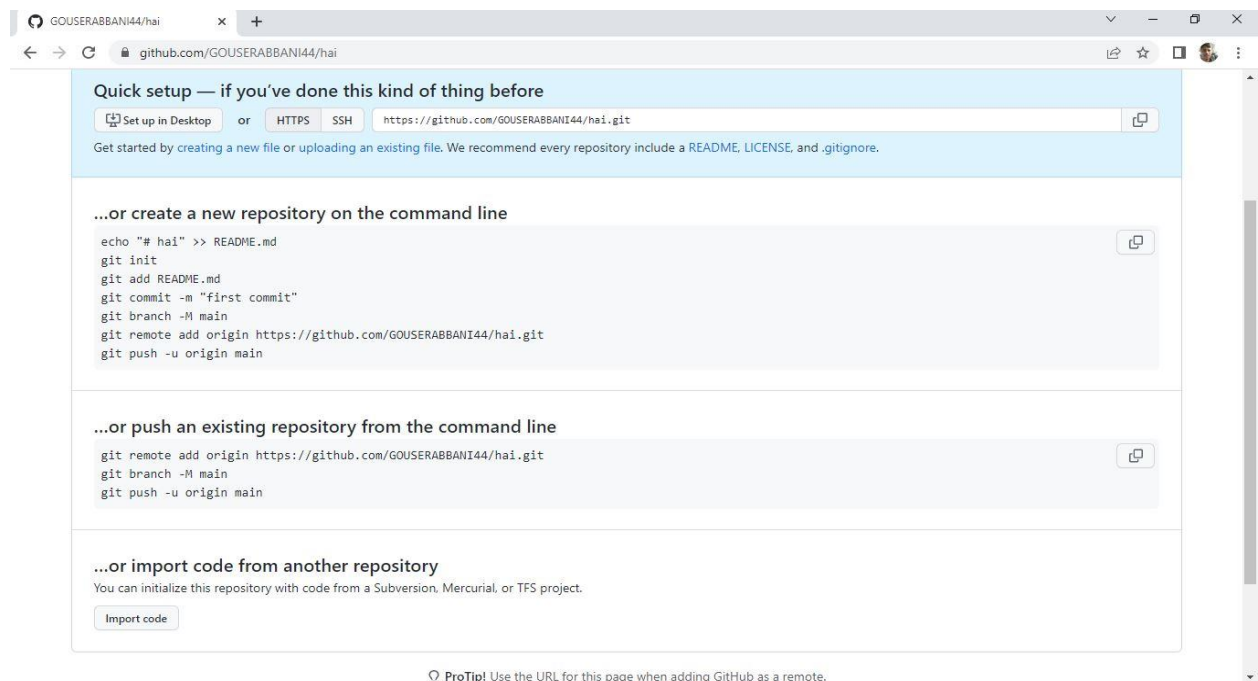
Pushing a locally created repo to Github:

- Now go to github and create a empty repository without adding README.md file.



The screenshot shows the GitHub 'Create a new repository' page. The 'Owner' is 'GOUSERABBANI44' and the 'Repository name' is 'hai'. The 'Description' is 'for local repo pushing'. The 'Public' option is selected. The 'Initialize this repository with' section has 'Add a README file' unchecked. The 'Add .gitignore' section has '.gitignore template: None' selected. The 'Choose a license' section is visible at the bottom.

- There is command to give fetch and push paths along with created empty repository HTTPS URL link.



The screenshot shows the GitHub 'Quick setup' page. It provides instructions for setting up a repository on the command line. The 'HTTPS' URL is 'https://github.com/GOUSERABBANI44/hai.git'. The 'SSH' URL is 'https://github.com/GOUSERABBANI44/hai.git'. The 'Quick setup' section includes instructions for creating a new repository on the command line, pushing an existing repository from the command line, and importing code from another repository.

```
echo "# hai" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/GOUSERABBANI44/hai.git
git push -u origin main
```

```
git remote add origin https://github.com/GOUSERABBANI44/hai.git
git branch -M main
git push -u origin main
```


GIT-Version Control system(vcs)

- Now go to terminal and past this command as
 - a. `git remote add origin <The URL link of empty repository>`.

```
After doing this, you may fix the identity used for this commit with:

git commit --amend --reset-author

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file.html
[ec2-user@ip-172-31-11-143 social]$ git add hello.txt
[ec2-user@ip-172-31-11-143 social]$ git commit -m "testing"
[master 99ccc8d] testing
Committer: EC2 Default User <ec2-user@ip-172-31-11-143.us-west-1.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

git config --global --edit

After doing this, you may fix the identity used for this commit with:

git commit --amend --reset-author

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 hello.txt
[ec2-user@ip-172-31-11-143 social]$ ls
file.html  hello.txt  index.html
[ec2-user@ip-172-31-11-143 social]$ git push
fatal: No configured push destination.
Either specify the URL from the command-line or configure a remote repository using

git remote add <name> <url>

and then push using the remote name

git push <name>

[ec2-user@ip-172-31-11-143 social]$ git remote -v
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$ git remote add origin https://github.com/GOUSERABBANI44/ha.git
origin https://github.com/GOUSERABBANI44/ha.git (fetch)
origin https://github.com/GOUSERABBANI44/ha.git (push)
[ec2-user@ip-172-31-11-143 social]$
```

- Now push the all branches files of local repository to git hub by using command as `git push --all` or `git push origin <branch>`.

```
ec2-user@ip-172-31-11-143:~/social
file.html  hello.txt  index.html
[ec2-user@ip-172-31-11-143 social]$ git push
fatal: No configured push destination.
Either specify the URL from the command-line or configure a remote repository using

git remote add <name> <url>

and then push using the remote name

git push <name>

[ec2-user@ip-172-31-11-143 social]$ git remote -v
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$ git remote add origin https://github.com/GOUSERABBANI44/ha.git
origin https://github.com/GOUSERABBANI44/ha.git (fetch)
origin https://github.com/GOUSERABBANI44/ha.git (push)
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$ git push
fatal: The current branch master has no upstream branch.
To push the current branch and set the remote as upstream, use

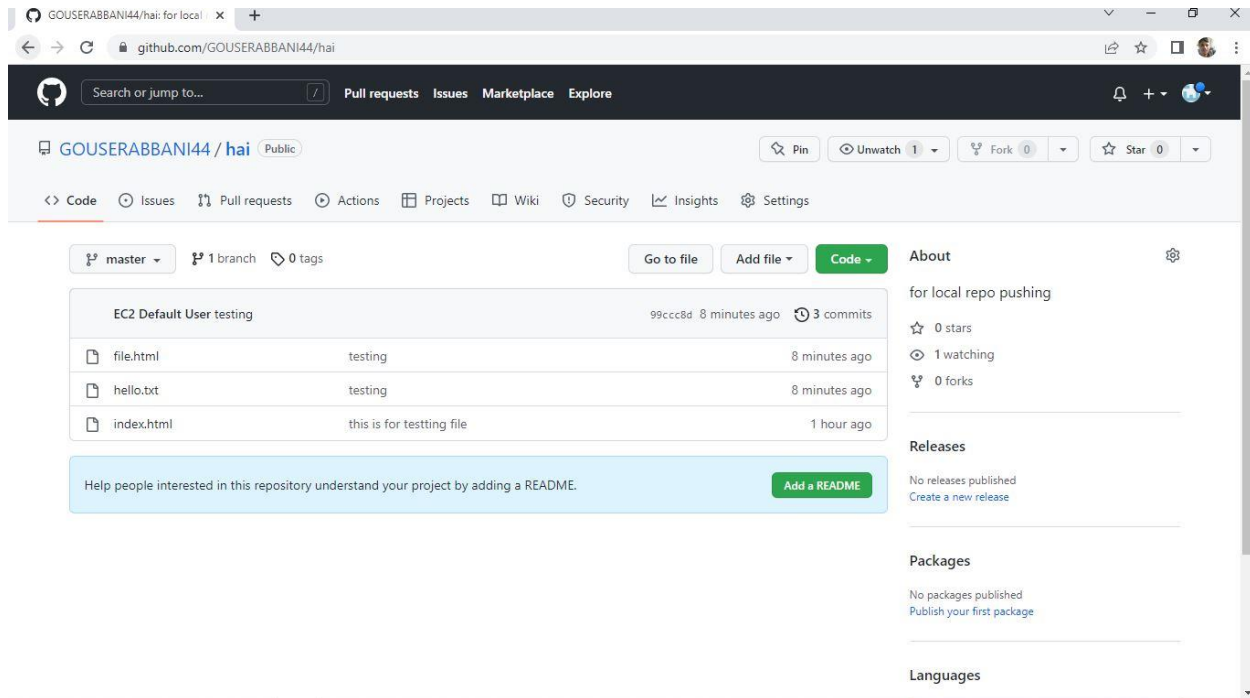
git push --set-upstream origin master

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

[ec2-user@ip-172-31-11-143 social]$ ls
file.html  hello.txt  index.html
[ec2-user@ip-172-31-11-143 social]$ git branch
* master
[ec2-user@ip-172-31-11-143 social]$ git push origin master
Username for 'https://github.com': gouserabbani44
Password for 'https://gouserabbani44@github.com':
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Compressing objects: 100% (5/5), done.
Writing objects: 100% (8/8), 699 bytes | 699.00 KiB/s, done.
Total 8 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/GOUSERABBANI44/ha.git
 * [new branch] master -> master
[ec2-user@ip-172-31-11-143 social]$
```

- Finally all branches files are pushed to github successfully.

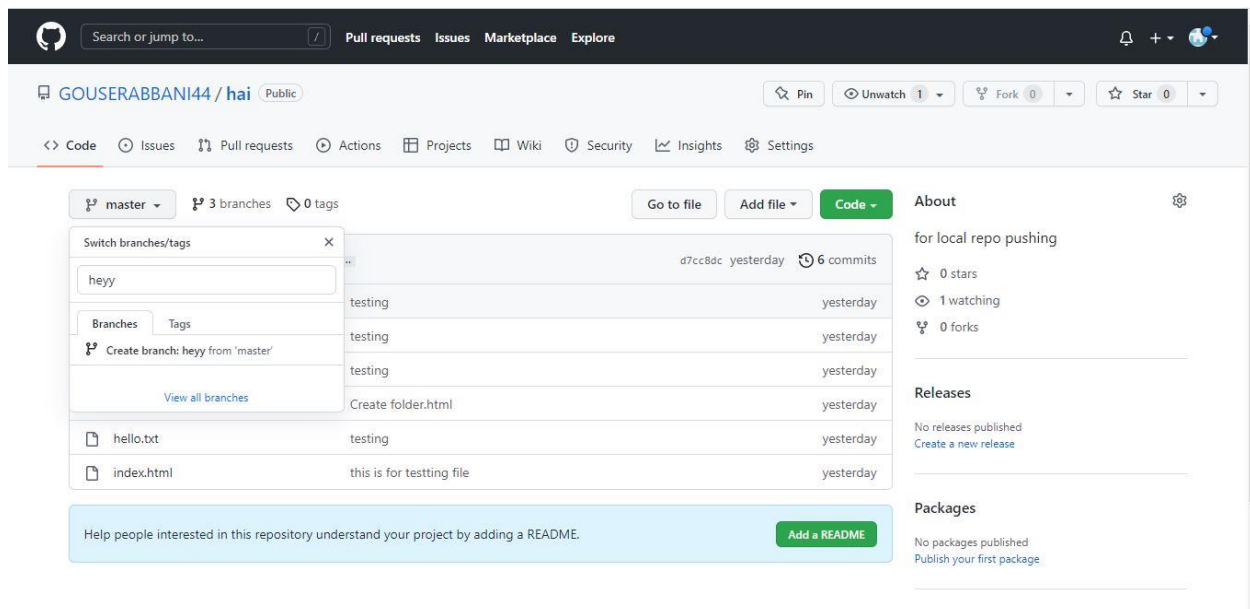
GIT-Version Control system(vcs)



LAB-6

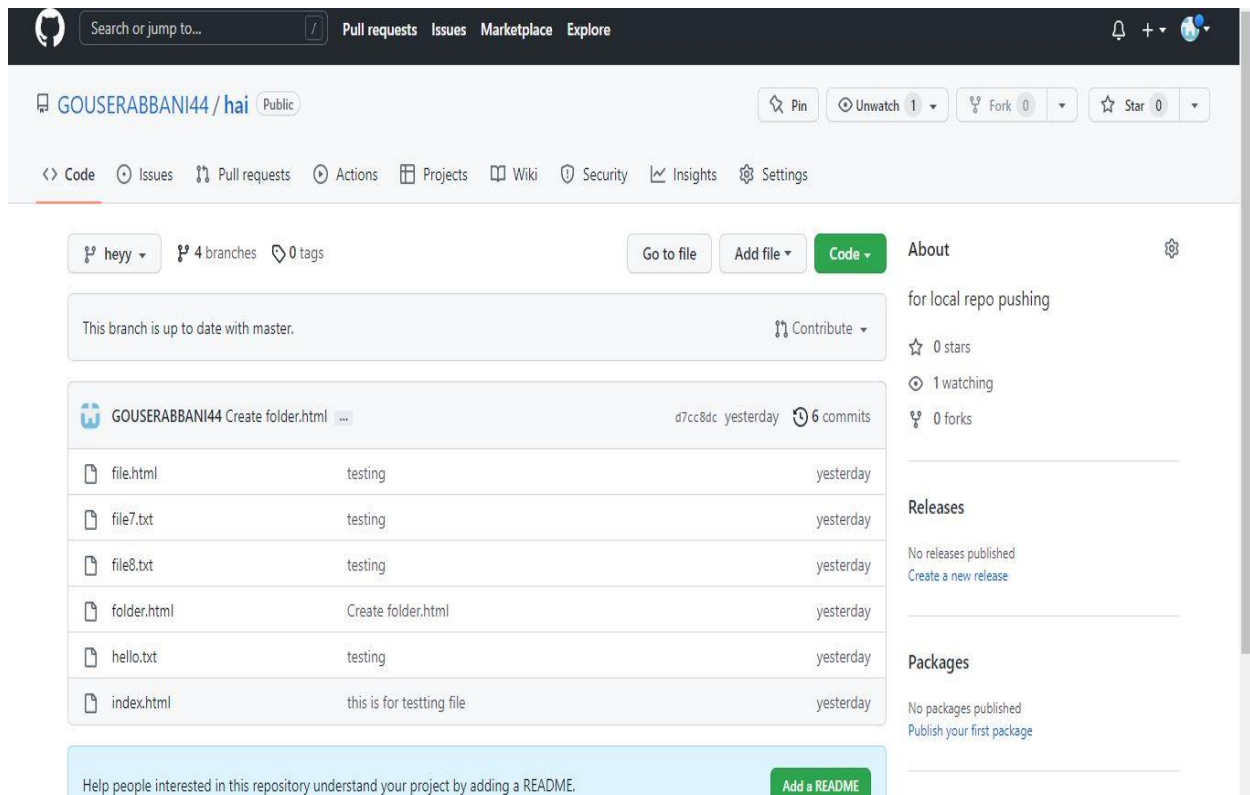
Crerate new branch from your master branch:

- Go to master branch dropdown button click on it and enter new branch name and click on create branch name.



GIT-Version Control system(vcs)

- Now successfully the new branch is created along with the all files of master branch.



LAB-7

Pull all branches to local machine:

- Pull all branches to local machine by using command as `git pull --all`.
- Go to created branch from master branch by using command as `git checkout <branch name>` and Create some files in created new branch add it and commit it.

Git-Version Control system(vcs)

```
[ec2-user@ip-172-31-11-143:~/social]
[ec2-user@ip-172-31-11-143 social]$ git branch
* master
[ec2-user@ip-172-31-11-143 social]$ git push origin master
Username for 'https://github.com': gouserrabani44
Password for 'https://gouserrabani44@github.com':
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Compressing objects: 100% (5/5), done.
Writing objects: 100% (8/8), 699 bytes | 699.00 KiB/s, done.
Total 8 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/GOUSERRABANI44/haigit
 * [new branch]      master -> master
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$ git branch dev
[ec2-user@ip-172-31-11-143 social]$ git branch
dev
* master
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$ touch file2.txt
[ec2-user@ip-172-31-11-143 social]$ touch file8.txt
[ec2-user@ip-172-31-11-143 social]$ ls
file2.txt file8.txt file.html hello.txt index.html
[ec2-user@ip-172-31-11-143 social]$ rm file2.txt file8.txt
[ec2-user@ip-172-31-11-143 social]$ ls
file.html hello.txt index.html
[ec2-user@ip-172-31-11-143 social]$ git branch dev
fatal: a branch named 'dev' already exists
[ec2-user@ip-172-31-11-143 social]$ git checkout dev
Switched to branch 'dev'
[ec2-user@ip-172-31-11-143 social]$ touch file7.txt file8.txt
[ec2-user@ip-172-31-11-143 social]$ ls
file7.txt file8.txt file.html hello.txt index.html
[ec2-user@ip-172-31-11-143 social]$ git checkout master
Switched to branch 'master'
[ec2-user@ip-172-31-11-143 social]$ ls
file7.txt file8.txt file.html hello.txt index.html
[ec2-user@ip-172-31-11-143 social]$ git merge dev
Already up to date.
[ec2-user@ip-172-31-11-143 social]$ ls
file7.txt file8.txt file.html hello.txt index.html
[ec2-user@ip-172-31-11-143 social]$
```

```

ec2-user@ip-172-31-11-143:~/social
[ec2-user@ip-172-31-11-143 social]$ touch file7.txt file8.txt
[ec2-user@ip-172-31-11-143 social]$ ls
file7.txt  file8.txt  file.html  hello.txt  index.html
[ec2-user@ip-172-31-11-143 social]$ git checkout master
Switched to branch 'master'
[ec2-user@ip-172-31-11-143 social]$ ls
file7.txt  file8.txt  file.html  hello.txt  index.html
[ec2-user@ip-172-31-11-143 social]$ git merge dev
Already up to date.
[ec2-user@ip-172-31-11-143 social]$ ls
file7.txt  file8.txt  file.html  hello.txt  index.html
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$ git branch
  dev
* master
[ec2-user@ip-172-31-11-143 social]$ git push
fatal: The current branch master has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin master

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

[ec2-user@ip-172-31-11-143 social]$ git push origin master
Username for 'https://github.com': gouserabban144
Password for 'https://gouserabban144@github.com':
Everything up-to-date
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$ ls
file7.txt  file8.txt  file.html  hello.txt  index.html
[ec2-user@ip-172-31-11-143 social]$ git checkout dev
Switched to branch 'dev'
[ec2-user@ip-172-31-11-143 social]$ git push origin dev
Username for 'https://github.com': gouserabban144
Password for 'https://gouserabban144@github.com':
total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote: Create a pull request for 'dev' on GitHub by visiting:
remote:   https://github.com/GOUSERABBAN144/hai/pull/new/dev
remote:
To https://github.com:GOUSERABBAN144/hai.git
 * [new branch]      dev -> dev
[ec2-user@ip-172-31-11-143 social]$ |

```

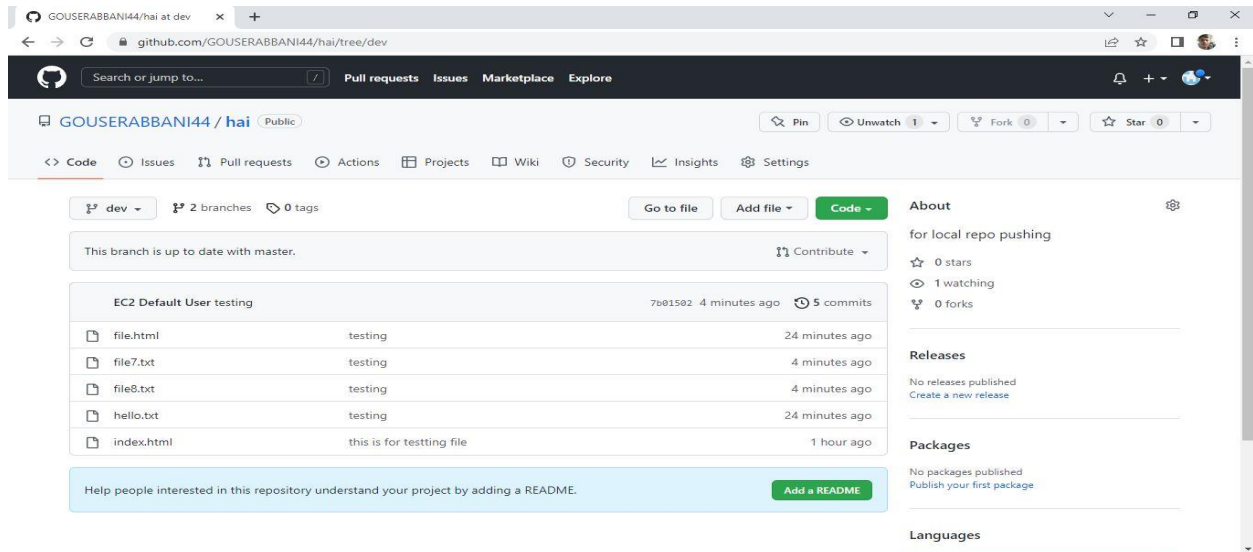
➤ Now push the all branches to the git hub buy using a command as

SHAIK.GOUSE RABBANI

GIT-Version Control system(vcs)

a. git push –all.

- Now go to git hub check the branches the master branch is doesn't change. But the newly created branch files are changes.

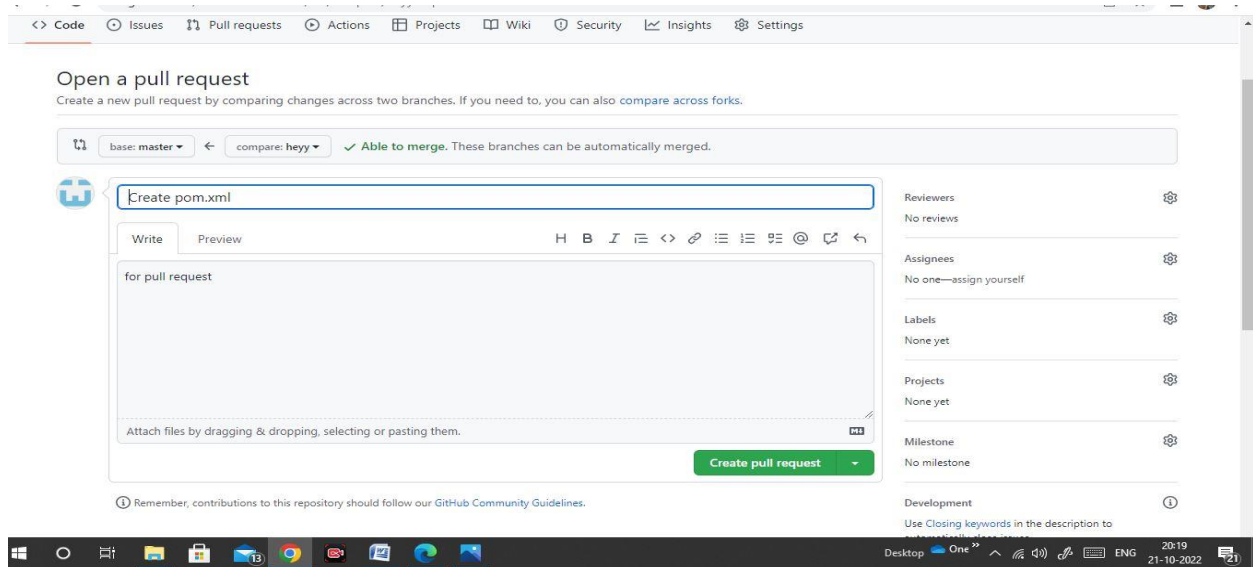


LAB-8

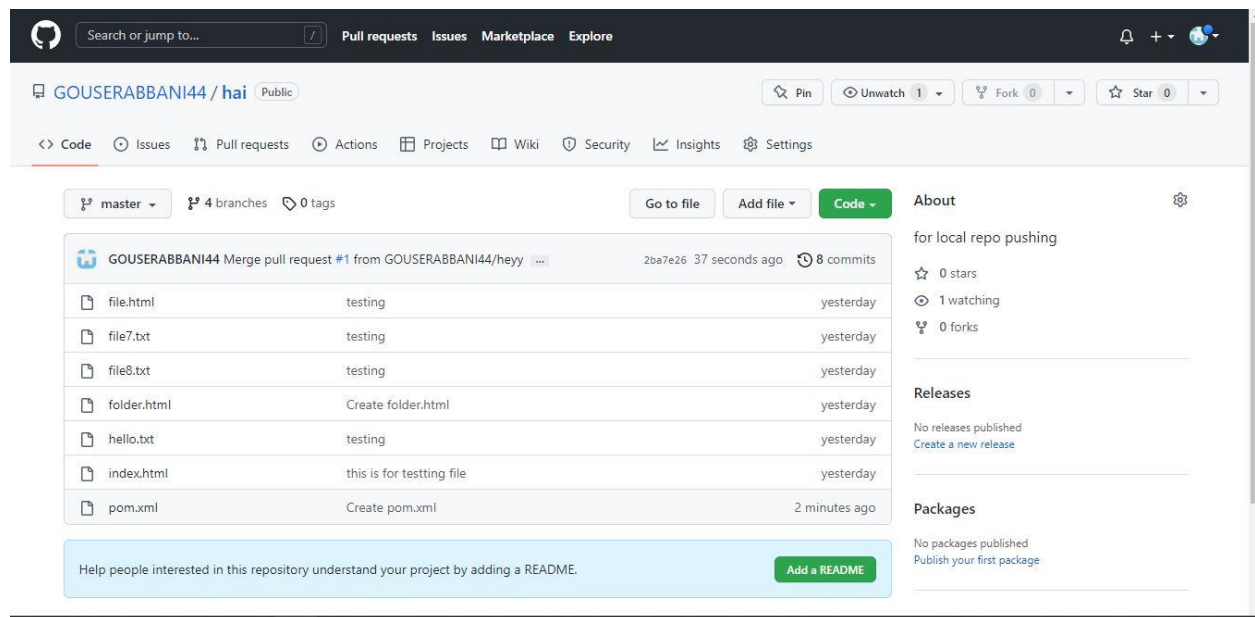
Merge feature branch with master branch:

- First go to master branch click on create pull request and select created branch and click on create confirm merge request.

GIT-Version Control system(vcs)



- Finally the pull request is created and a new branch merged with master branch.



LAB-9

Go to local machine:

- Now go to local machine and pull the all branches from git hub by giving a command as `git pull --all` or `git pull origin <branch name>`.

GIT-Version Control system(vcs)

```
ec2-user@ip-172-31-11-143: ~/social
[ec2-user@ip-172-31-11-143 social]$ git merge dev
Updating 99ccc8d..7b01502
Fast-forward
 file7.txt | 0
 file8.txt | 0
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file7.txt
 create mode 100644 file8.txt
[ec2-user@ip-172-31-11-143 social]$ ls
file7.txt file8.txt file.html hello.txt index.html
[ec2-user@ip-172-31-11-143 social]$ git push origin master
Username for 'https://github.com': gouserabbani44
Password for 'https://gouserabbani44@github.com':
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/GOUSERABBANI44/hai.git
 99ccc8d..7b01502 master -> master
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$ ls
file7.txt file8.txt file.html hello.txt index.html
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$
[ec2-user@ip-172-31-11-143 social]$ git pull master
fatal: 'master' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
[ec2-user@ip-172-31-11-143 social]$ git pull origin master
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 687 bytes | 607.00 KiB/s, done.
From https://github.com/GOUSERABBANI44/hai
  * branch      master       -> FETCH_HEAD
  7b01502..d7cc8dc master    -> origin/master
Updating 7b01502..d7cc8dc
Fast-forward
 folder.html | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 folder.html
[ec2-user@ip-172-31-11-143 social]$ ls
file7.txt file8.txt file.html folder.html hello.txt index.html
[ec2-user@ip-172-31-11-143 social]$
```

- Finally master branch and newly created branch both are have same files like in repository have same files in github from which one we pulled that repository.