

Task 2

SCM PROJECT

Subject Name: **Source Code Management**

Subject Code: **CS181**

Cluster: **Beta**

Department: **CSE**

Made By: Aakriti Bahl

Roll No: 2110990008

Submitted To: Dr. Monit Kapoor

Team No: 12

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TO DO: Create a distributed repository and add team members.

STEPS:

1. We created a repository in the organization by the naming convention **<Roll No>**.
2. Then from the **collaborator** section of the **settings** panel I added my other teammates as collaborators in the repository.

Manage access


Add people

☐

Select all


Type ▾

☐




abhishek0068

Awaiting abhishek0068's response

Pending Invite 


Remove

☐



ABHISHEK THAKUR

Awaiting abhishekgit1609's response

Pending Invite 

Remove

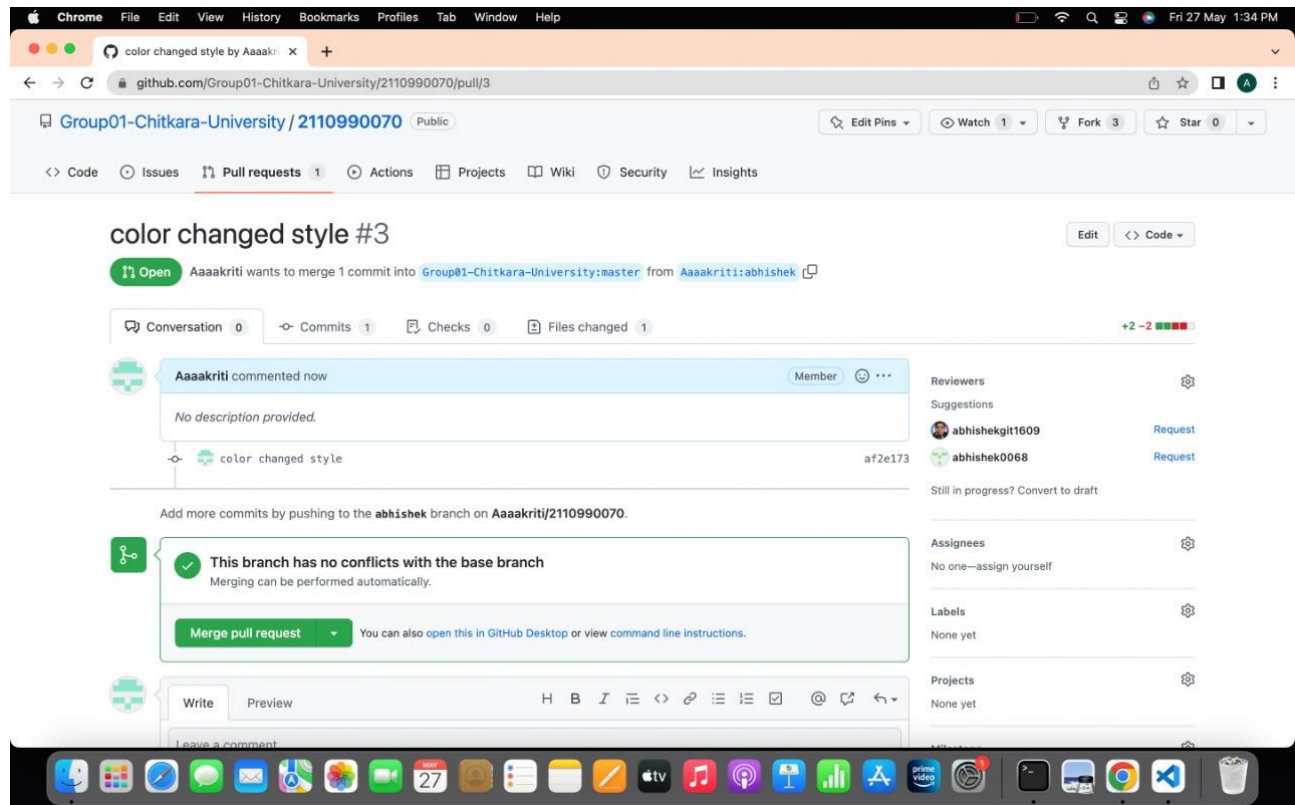
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3. The distributed repository is now created, but if the members were added as collaborators then we could not generate any pull request except the ones which involved branches.
4. To avoid this issue I removed them as a collaborator. We then decided to **fork and commit** to each other's repo.
5. We then forked each other's repo and started working on the given code.
6. In my repository the code is in **Python** language and is a basic **ATM Project**. My teammates started working on the code by creating their own branches and then pushing and testing the code.

TO DO: Open and Close Pull Requests.

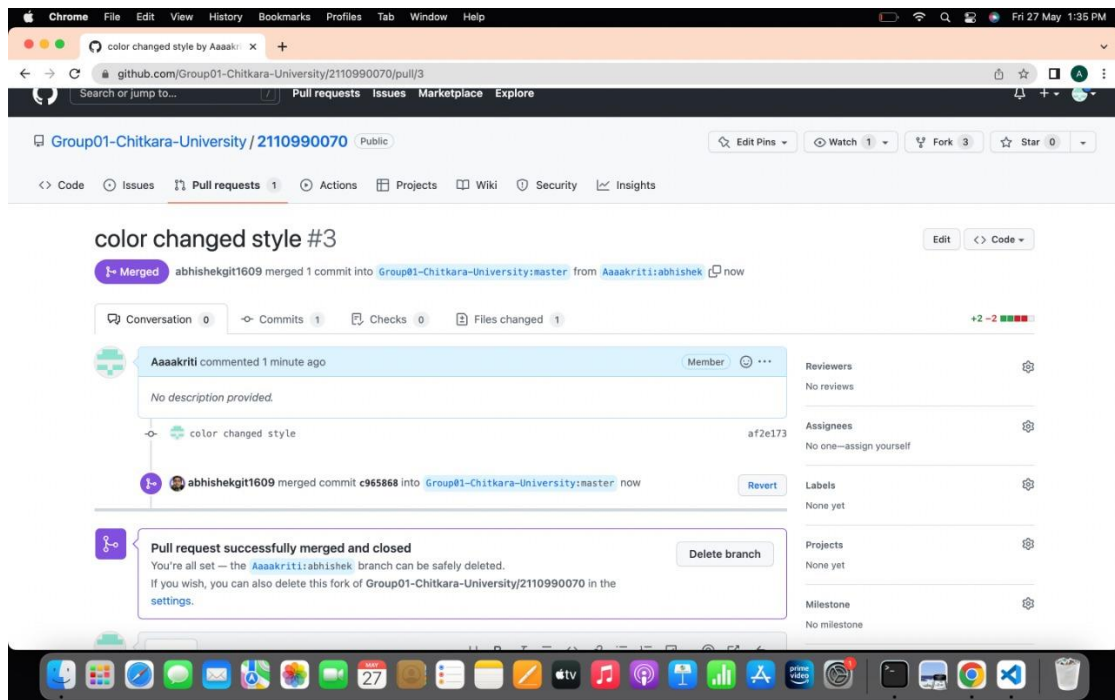
STEPS:

1. My teammates started pushing code in their own branches and then opened pull requests in my repository by **Contributing** to my code.



2. I closed them simultaneously as a maintainer of the repo.
3. As a member of the team and the requirements of the project work I also had to open and close pull requests in my teammates repositories. Below are the screenshots of the

1. Contribution in Abhishekgit1609



4. I worked with **abhishekgit1609**, **Abhijeet0003**, **Abhishek** on their repositories and modified their code, added new functionalities and tested their code.
5. To achieve this first I had to fork the repo into my account and then I cloned them onto my local machine.

```

Abhishek repo clone --zsh -- 80x24
Last login: Fri May 27 11:38:11 on ttys001
aaaaakriti@Aakritis-MacBook-Air Abhishek repo clone % git clone https://github.com/Aaaakriti/2110990070.git
Cloning into '2110990070'...
remote: Enumerating objects: 45, done.
remote: Counting objects: 100% (45/45), done.
remote: Compressing objects: 100% (38/38), done.
remote: Total 45 (delta 5), reused 42 (delta 4), pack-reused 0
Receiving objects: 100% (45/45), 10.62 MiB | 3.53 MiB/s, done.
Resolving deltas: 100% (5/5), done.
aaaaakriti@Aakritis-MacBook-Air Abhishek repo clone %

```

6. After cloning I reviewed the code, made changes on my own branch and then committed to the forked repo. From where I then open a pull request and it's

reflected on the repo owner's pull requests tab. [Screenshots attached for the same].
The changes made by me are also visible to the owner.

```
2110990070 --zsh-- 80x24
aaaaakriti@Aakritis-MacBook-Air 2110990070 % git branch abhishek
aaaaakriti@Aakritis-MacBook-Air 2110990070 % git checkout abhishek
Switched to branch 'abhishek'
aaaaakriti@Aakritis-MacBook-Air 2110990070 %
```

```
2110990070 --zsh-- 80x24
aaaaakriti@Aakritis-MacBook-Air 2110990070 % git branch abhishek
aaaaakriti@Aakritis-MacBook-Air 2110990070 % git checkout abhishek
Switched to branch 'abhishek'
aaaaakriti@Aakritis-MacBook-Air 2110990070 % git status
On branch abhishek
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:   personalweb/styling.css

no changes added to commit (use "git add" and/or "git commit -a")
aaaaakriti@Aakritis-MacBook-Air 2110990070 % git add .
aaaaakriti@Aakritis-MacBook-Air 2110990070 % git commit -m "color changed style"

[abhishek af2e173] color changed style
 1 file changed, 2 insertions(+), 2 deletions(-)
aaaaakriti@Aakritis-MacBook-Air 2110990070 %
```

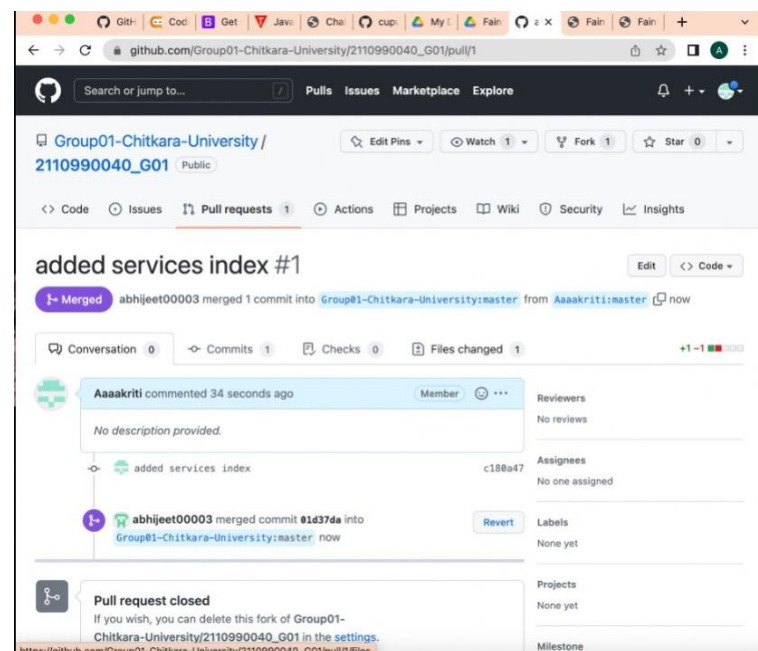
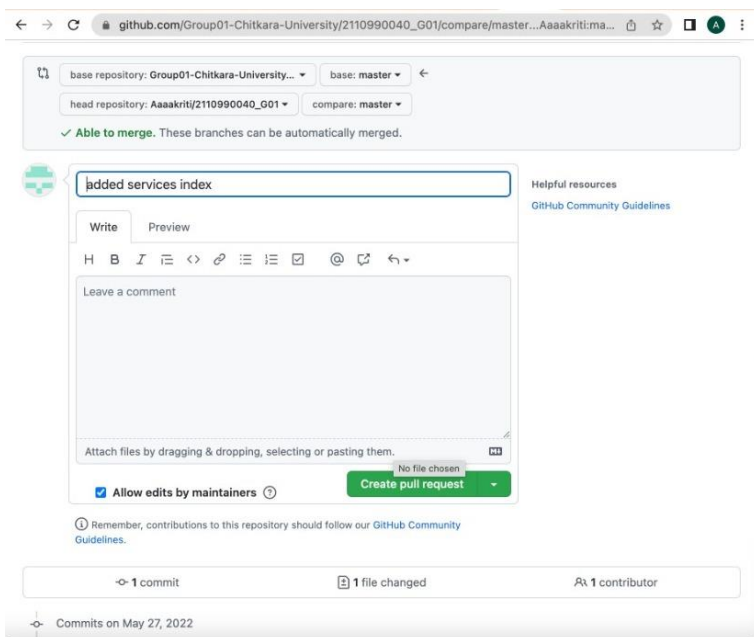
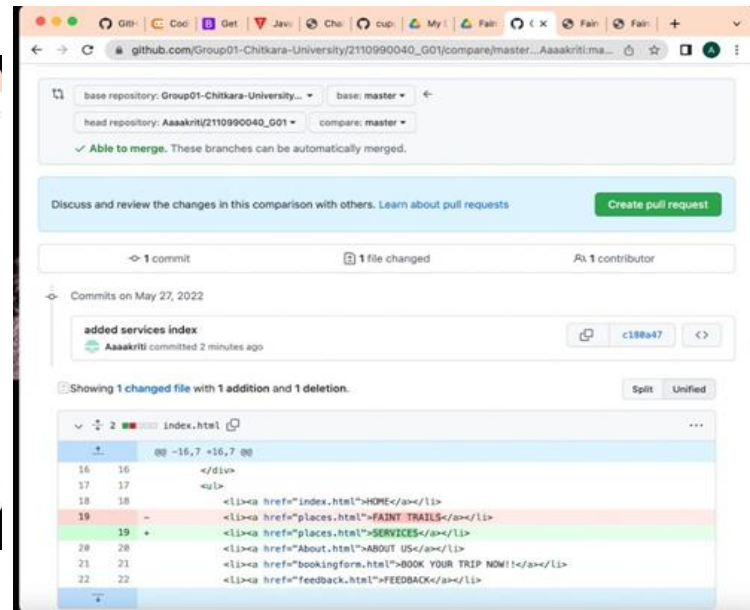
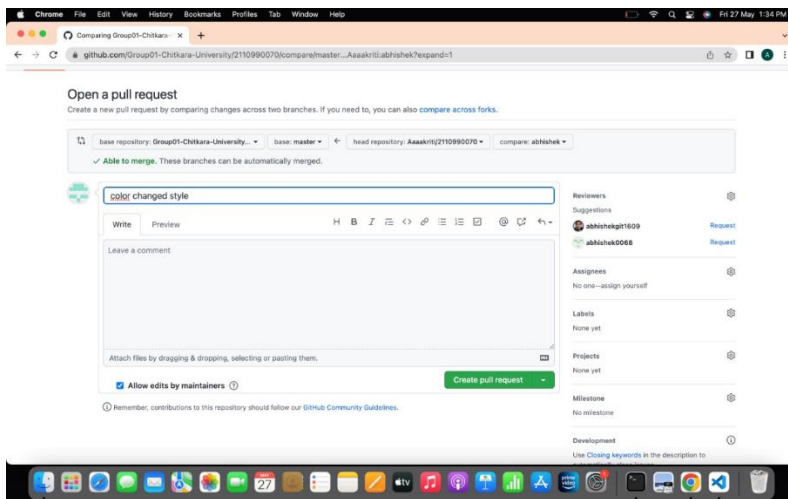
```
2110990070 --zsh-- 80x24
modified:   personalweb/styling.css

no changes added to commit (use "git add" and/or "git commit -a")
aaaaakriti@Aakritis-MacBook-Air 2110990070 % git add .
aaaaakriti@Aakritis-MacBook-Air 2110990070 % git commit -m "color changed style"

[abhishek af2e173] color changed style
 1 file changed, 2 insertions(+), 2 deletions(-)
aaaaakriti@Aakritis-MacBook-Air 2110990070 % git push -u origin abhishek
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 429 bytes | 429.00 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'abhishek' on GitHub by visiting:
remote:   https://github.com/Aaaakriti/2110990070/pull/new/abhishek
remote:
To https://github.com/Aaaakriti/2110990070.git
 * [new branch]      abhishek -> abhishek
Branch 'abhishek' set up to track remote branch 'abhishek' from 'origin'.
aaaaakriti@Aakritis-MacBook-Air 2110990070 %
```

```
2110990070 -- -zsh -- 80x24

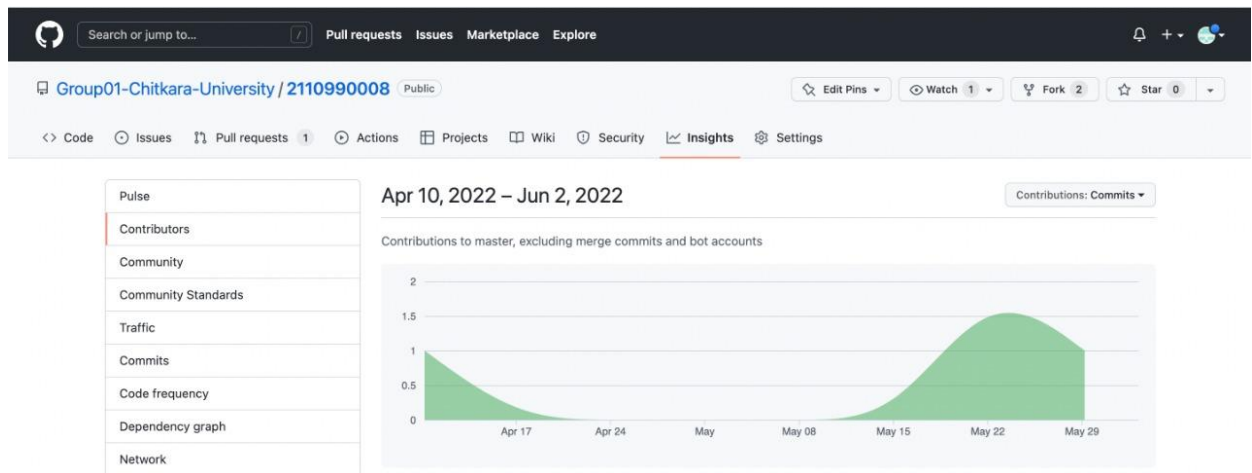
aaaaakriti@Aakritis-MacBook-Air 2110990070 % git push -u origin abhishek
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 429 bytes | 429.00 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'abhishek' on GitHub by visiting:
remote:   https://github.com/Aaaakriti/2110990070/pull/new/abhishek
remote:
To https://github.com/Aaaakriti/2110990070.git
 * [new branch]      abhishek -> abhishek
Branch 'abhishek' set up to track remote branch 'abhishek' from 'origin'.
aaaaakriti@Aakritis-MacBook-Air 2110990070 % git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
aaaaakriti@Aakritis-MacBook-Air 2110990070 % git merge abhishek
Updating dce7bcf..af2e173
Fast-forward
 personalweb/styling.css | 4 +---
 1 file changed, 2 insertions(+), 2 deletions(-)
aaaaakriti@Aakritis-MacBook-Air 2110990070 %
```



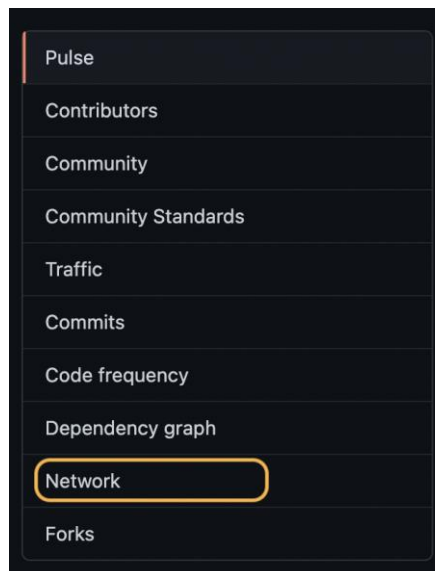
TO DO: Publish and Print Network Graphs

STEPS:

1. Go to the **Insights** tab of the Repository.



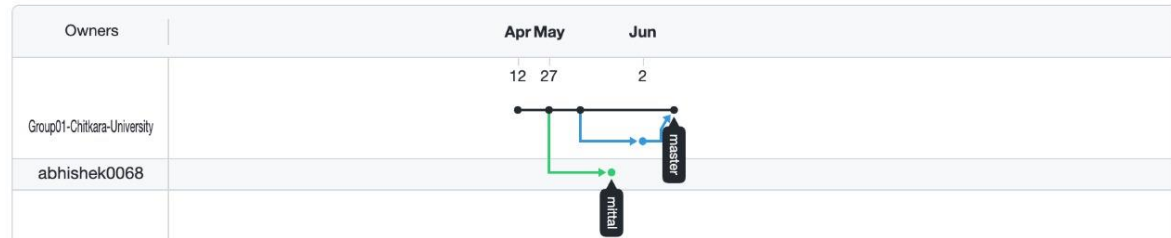
2. Click on the **Network** panel in the navigation panel.



3. We can now visualize the network graph of our repository. Mine is attached below.

Network graph

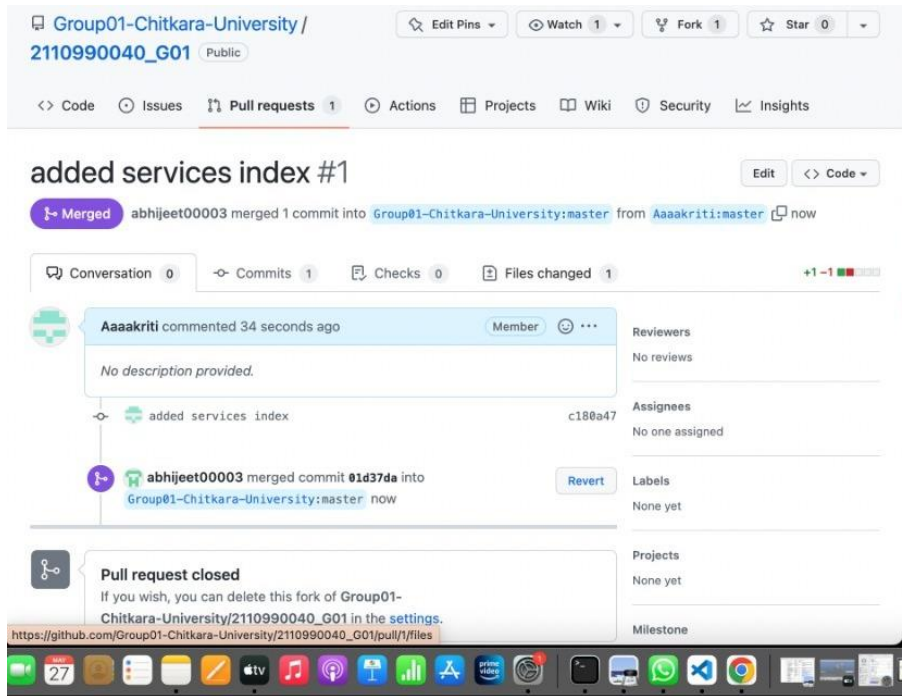
Timeline of the most recent commits to this repository and its network ordered by most recently pushed to.



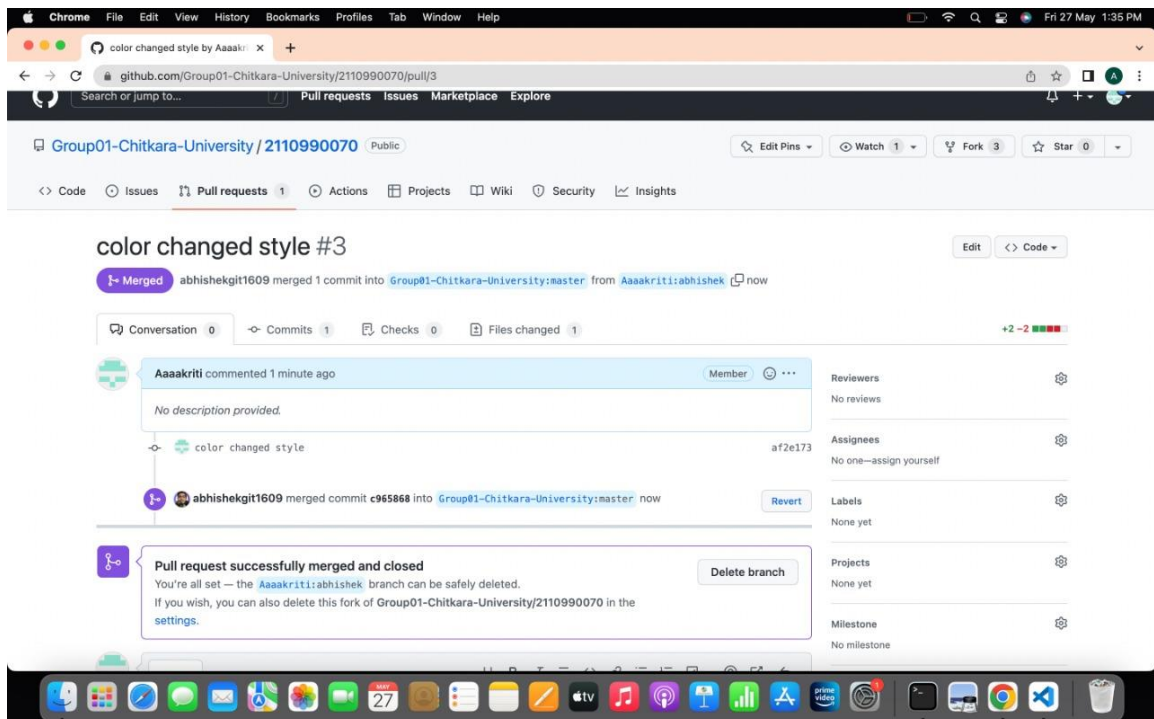
4. Through the network graph we can visualize the creating and merging of all the branches from the master branch and into the master branch. This network graph is very simple, they can be quite complex in bigger repositories.

TODO: Pull request from each member of the team.

- **Member #1**



● Member #2



- Screenshots of the total pull requests and contributors in my repository.

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