Subject Name: Source Code Management

Subject Code : CS-181

Cluster : ALPHA

Department: DCSE

Submitted by :-

2110991337 - Shubham

2110991360 - Siddharth Singh

2110991875 - Yash Kapil

2110991363 - Sidhyant

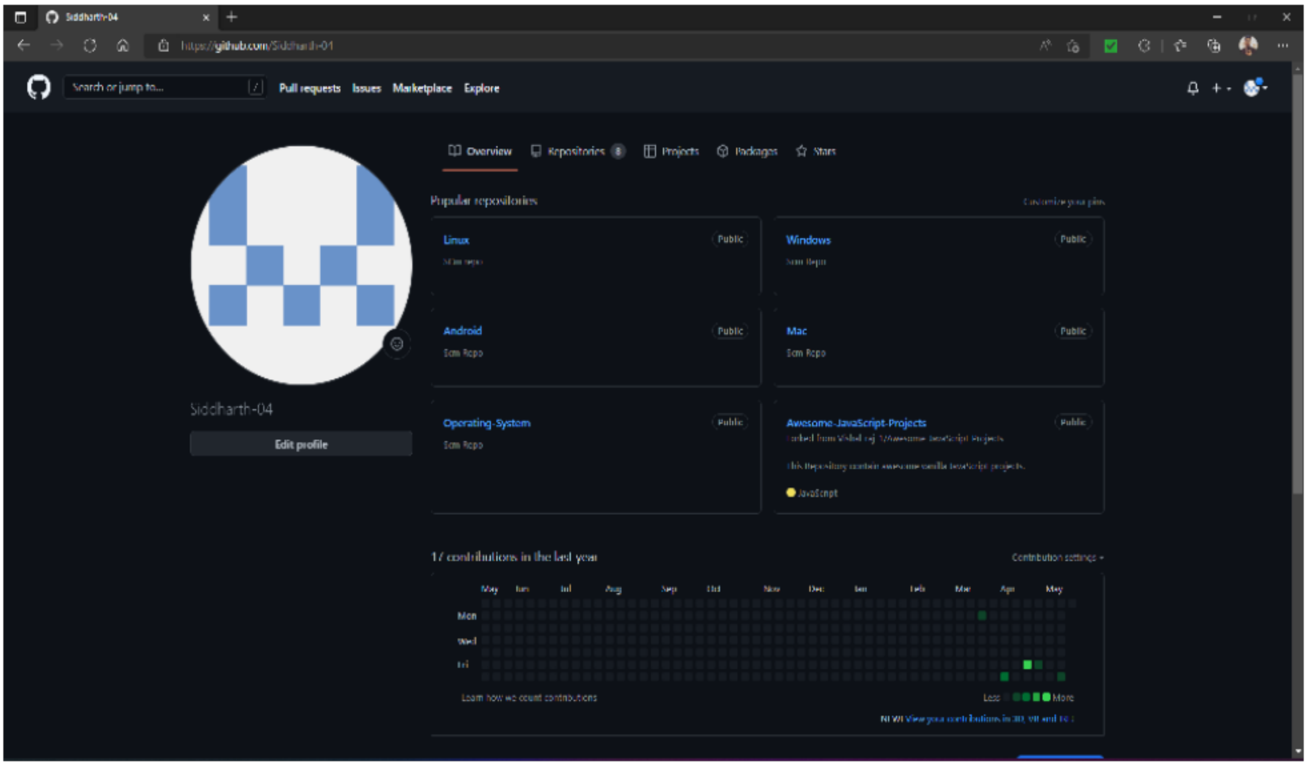
Submitted To :-

DR. Gagandeep Kaur

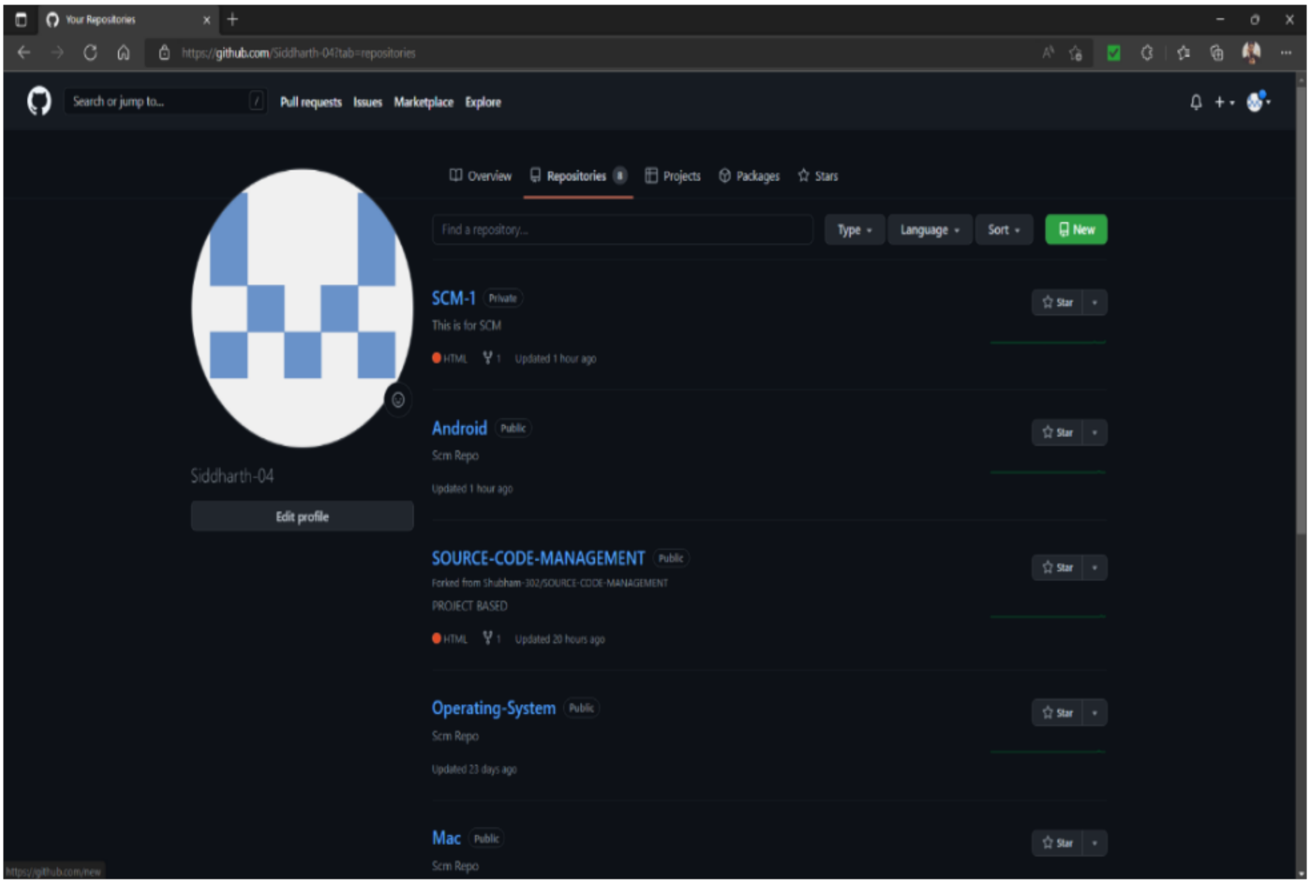
INDEX

Aim: Create a distributed Repository and add members in project team

- Login to your GitHub account and you will land on the homepage as shown below. Click on Repositories option in the menu bar.



- Click on the 'New' button in the top right corner.



SCM-1 Private
This is for SCM
HTML 1 Updated 1 hour ago

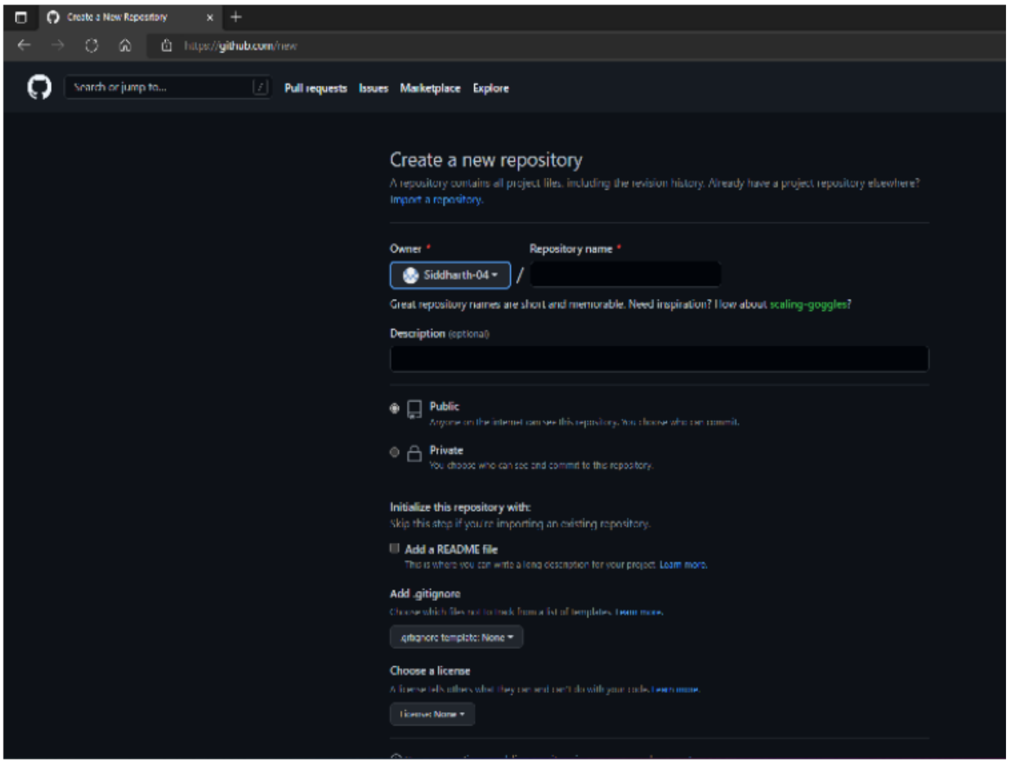
Android Public
Scm Repo
Updated 1 hour ago

SOURCE-CODE-MANAGEMENT Public
Forked from Shubham-302/SOURCE-CODE-MANAGEMENT
PROJECT BASED
HTML 1 Updated 20 hours ago

Operating-System Public
Scm Repo
Updated 23 days ago

Mac Public
Scm Repo

- Enter the Repository name and add the description of the repository.



Create a New Repository

https://github.com/new

Search or jump to... Pull requests Issues Marketplace Explore

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? Import a repository.

Owner * Repository name *

Siddharth-04 /

Great repository names are short and memorable. Need inspiration? How about scaling-goggles?

Description (optional)

● Public
Anyone on the internet can see this repository. You choose who can commit.

○ Private
You choose who can see and commit to this repository.

Initialize this repository with:
Skip this step if you're importing an existing repository.

□ Add a README file
This is where you can write a long description for your project. Learn more.

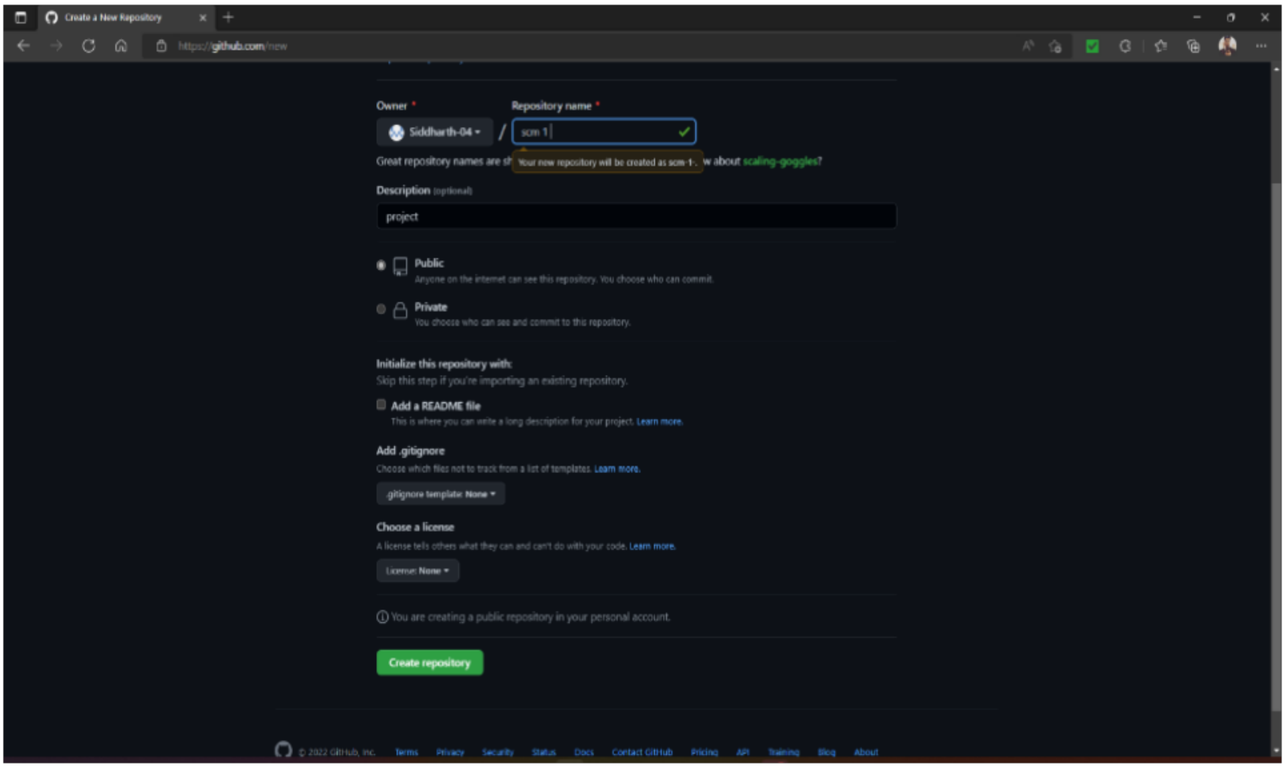
Add .gitignore
Choose which files not to track from a list of templates. Learn more.

.gitignore template: None

Choose a license
A license tells others what they can and can't do with your code. Learn more.

License: None

- Select if you want the repository to be public or private.
- Click to the create repository.



Create a New Repository

https://github.com/new

Owner * Repository name *

Siddharth-04 / scm 1 ✓

Great repository names are sh Your new repository will be created as scm-1. w about scaling-goggles?

Description (optional)

project

● Public
Anyone on the internet can see this repository. You choose who can commit.

○ Private
You choose who can see and commit to this repository.

Initialize this repository with:
Skip this step if you're importing an existing repository.

□ Add a README file
This is where you can write a long description for your project. Learn more.

Add .gitignore
Choose which files not to track from a list of templates. Learn more.

.gitignore template: None

Choose a license
A license tells others what they can and can't do with your code. Learn more.

License: None

ⓘ You are creating a public repository in your personal account.

Create repository

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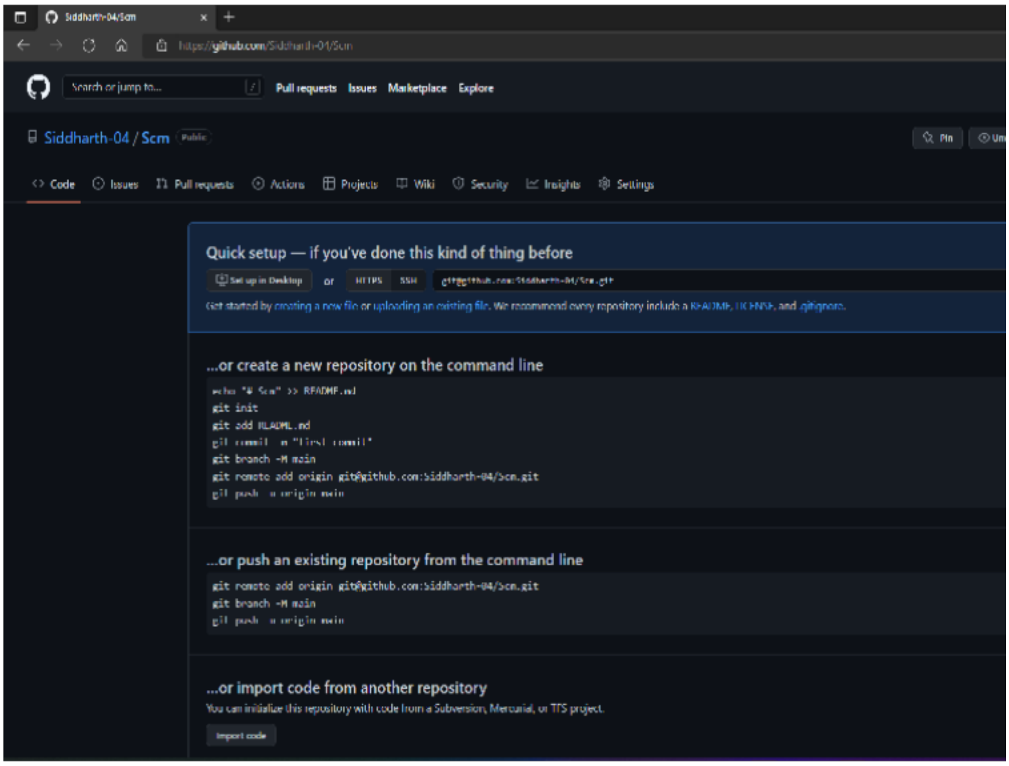
- If you want to import code from an existing repository select the



Siddharth-04 / Scm Public

Quick setup — if you've done this kind of thing before

Get started by creating a new file or uploading an existing file. We recommend every repository include a README, LICENSE, and .gitignore.

...or create a new repository on the command line

```
echo "# Scm" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:Siddharth-04/Scm.git
git push -u origin main
```

...or push an existing repository from the command line

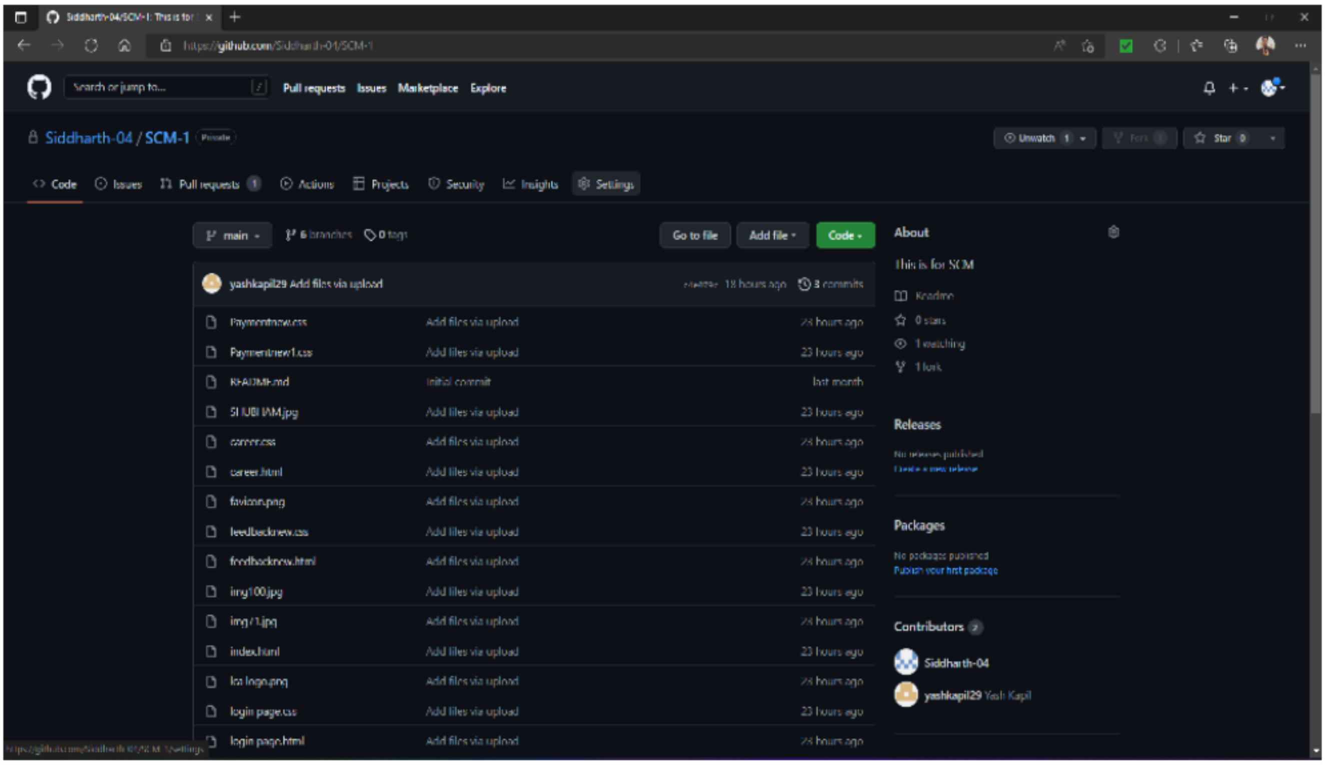
```
git remote add origin git@github.com:Siddharth-04/Scm.git
git branch -M main
git push -u origin main
```

...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

import code option.

- Now, you have created your repository successfully.
- To add members to your repository, open your repository and select settings option in the navigation bar.



Siddharth-04 / SCM-1 Private

yashkapil29 Add files via upload 18 hours ago 8 commits

Paymentnew.css	Add files via upload	23 hours ago
Paymentnew1.css	Add files via upload	23 hours ago
README.md	Initial commit	last month
STUBIAM.jpg	Add files via upload	23 hours ago
career.css	Add files via upload	23 hours ago
career.html	Add files via upload	23 hours ago
favicon.png	Add files via upload	23 hours ago
feedbacknew.css	Add files via upload	23 hours ago
feedbacknew.html	Add files via upload	23 hours ago
img100.jpg	Add files via upload	23 hours ago
img71.jpg	Add files via upload	23 hours ago
index.html	Add files via upload	23 hours ago
lca logo.png	Add files via upload	23 hours ago
login page.css	Add files via upload	23 hours ago
login page.html	Add files via upload	23 hours ago

About

This is for SCM

Releases

No releases published

Create a new release

Packages

No packages published

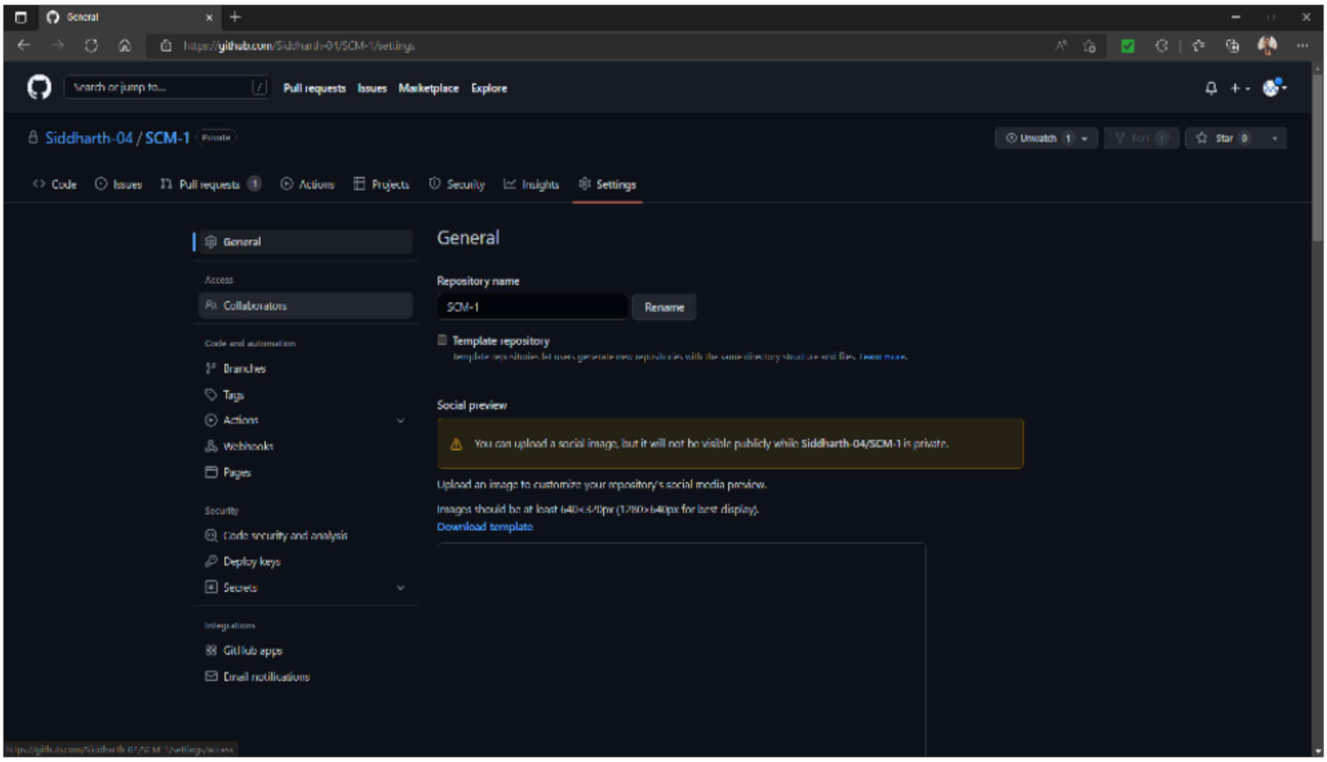
Publish your first package

Contributors 2

Siddharth-04

yashkapil29 Yash Kapil

- Click on Collaborators option under the access tab.



General

Repository name: SCM-1

□ Template repository

Template repositories let users generate new repositories with the same directory structure and files. Learn more.

Social preview

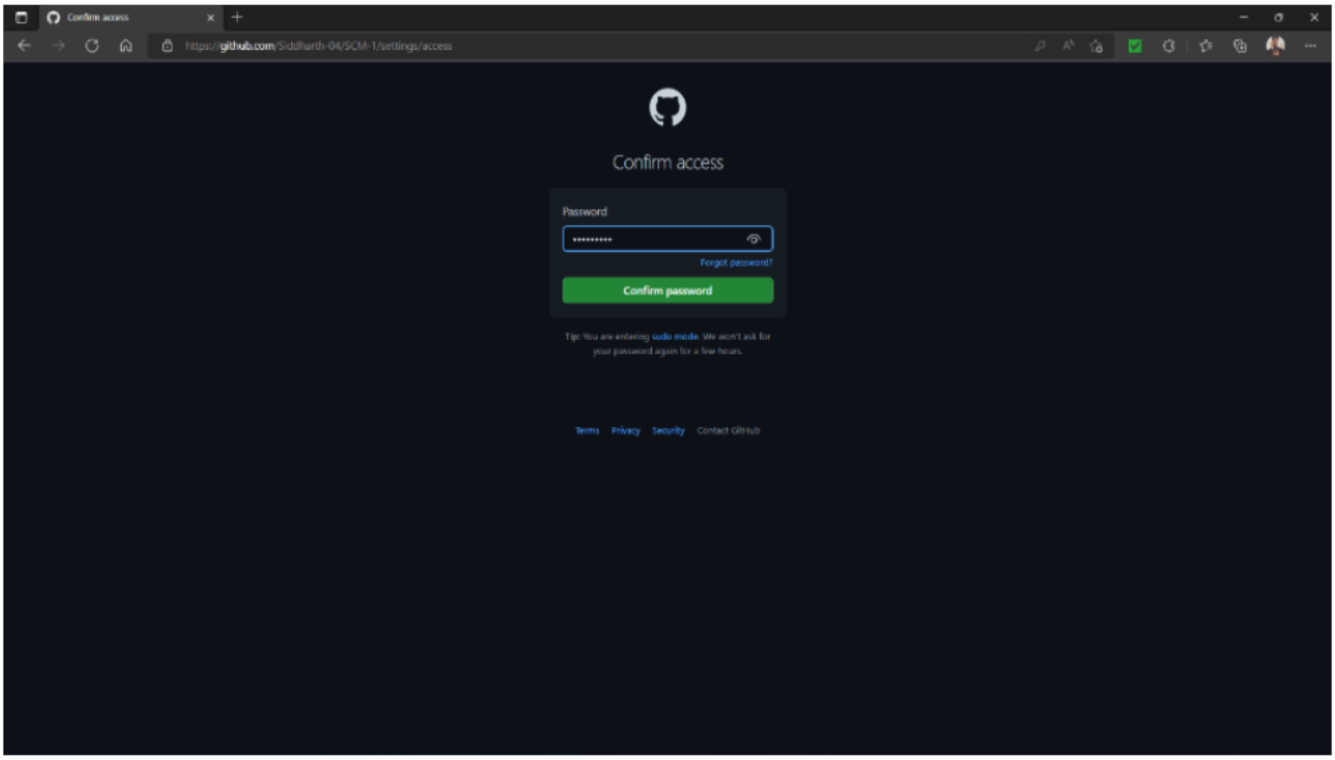
You can upload a social image, but it will not be visible publicly while Siddharth-04/SCM-1 is private.

Upload an image to customize your repository's social media preview.

Images should be at least 640×320px (1280×640px for best display).

Download template

- After clicking on collaborators GitHub asks you to enter your password to confirm the access to the repository.



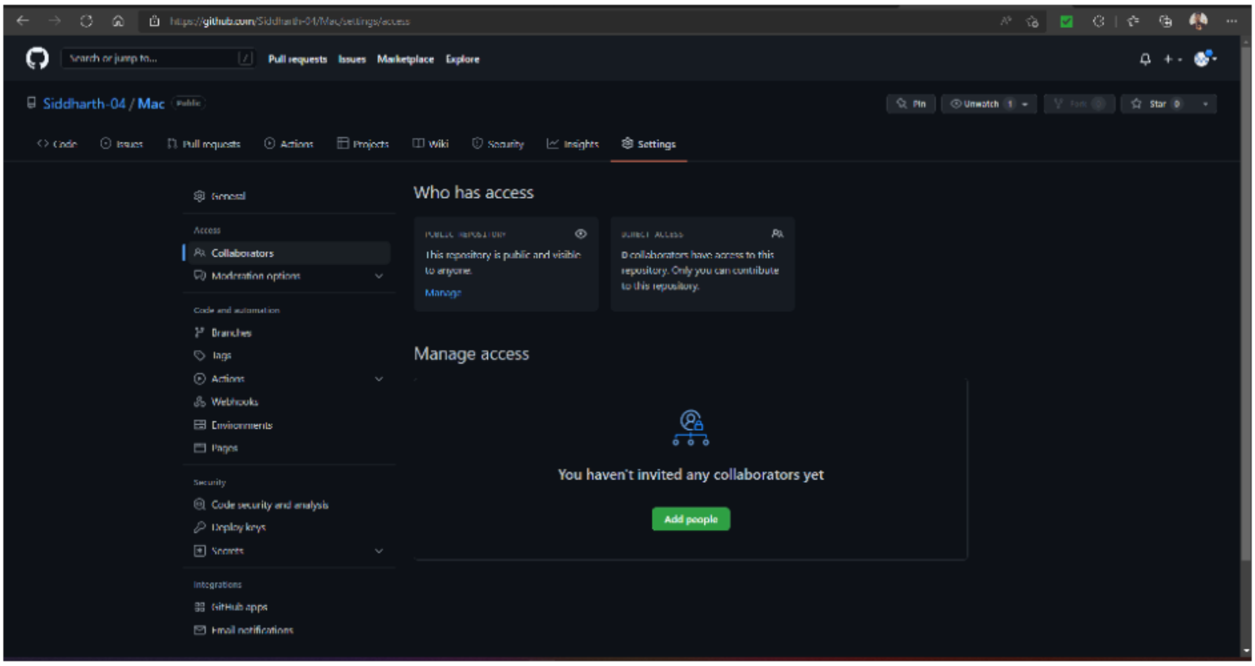
Confirm access

Password: ••••••••••

Tip: You are entering sudo mode. We won't ask for your password again for a few hours.

After entering the password, you can manage access and add/remove team members to your project.

- To add members, click on the add people option and search the id of your respective team member.



https://github.com/Siddharth-04/Mac/settings/access

Siddharth-04 / Mac Public

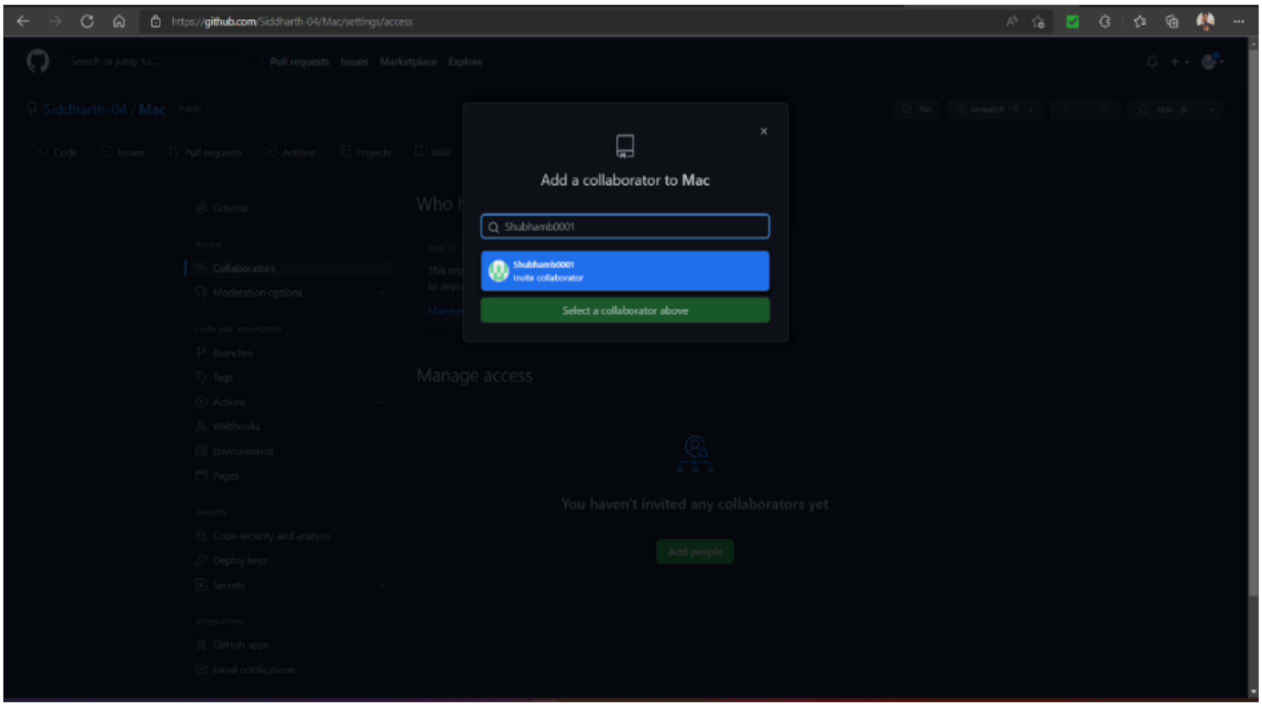
Who has access

PUBLIC REPOSITORY
This repository is public and visible to anyone.
Manage

DIRECT ACCESS
0 collaborators have access to this repository. Only you can contribute to this repository.

Manage access

You haven't invited any collaborators yet



https://github.com/Siddharth-04/Mac/settings/access

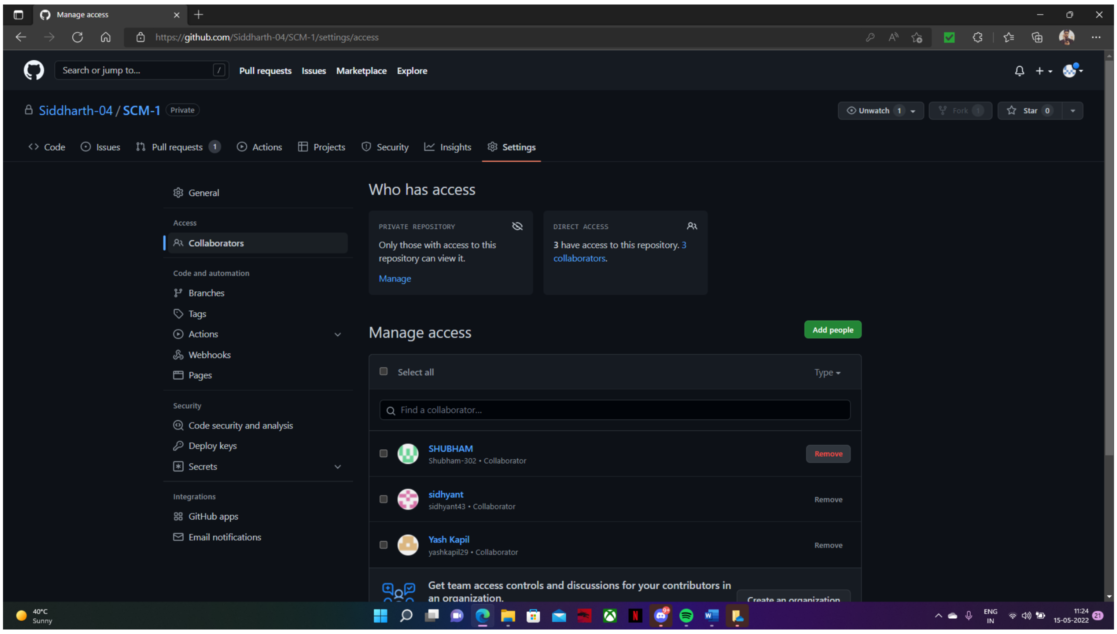
Add a collaborator to Mac

Shubhamb0001

Shubhamb0001
Invite collaborator

- Now, click on green box to add member in your repository.

- To remove any member, click on remove option available in the last column of member's respective row.



Who has access

PRIVATE REPOSITORY
Only those with access to this repository can view it.
Manage

DIRECT ACCESS
3 have access to this repository. 3 collaborators.

Manage access

SHUBHAM
Shubham-302 • Collaborator

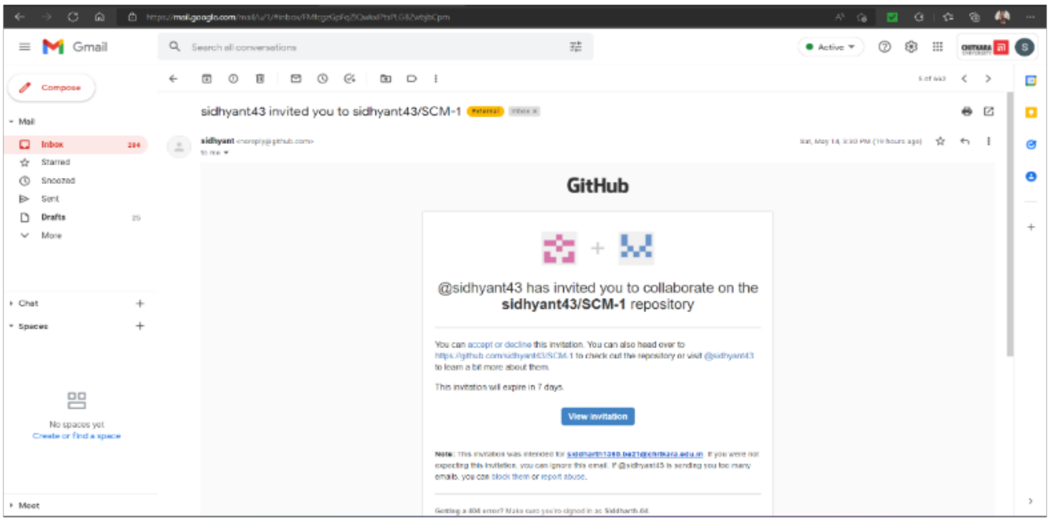
sidhyant
sidhyant43 • Collaborator

Yash Kapil
yashkapil29 • Collaborator

Get team access controls and discussions for your contributors in an organization.

To accept the invitation from your team member, open your email registered with GitHub.

- You will receive an invitation mail from the repository owner. Open the email and click on accept invitation.
- You will be redirected to GitHub where you can either select to accept or decline the invitation.



sidhyant43 invited you to sidhyant43/SCM-1

sidhyant <noreply@github.com>
to me
Sat, May 14, 3:30 PM (19 hours ago)

GitHub

@sidhyant43 has invited you to collaborate on the **sidhyant43/SCM-1** repository

You can accept or decline this invitation. You can also head over to https://github.com/sidhyant43/SCM-1 to check out the repository or visit @sidhyant43 to learn a bit more about them.

This invitation will expire in 7 days.

Note: This invitation was intended for siddharth1380.be21@chitkara.edu.in. If you were not expecting this invitation, you can ignore this email. If @sidhyant43 is sending you too many emails, you can block them or report abuse.

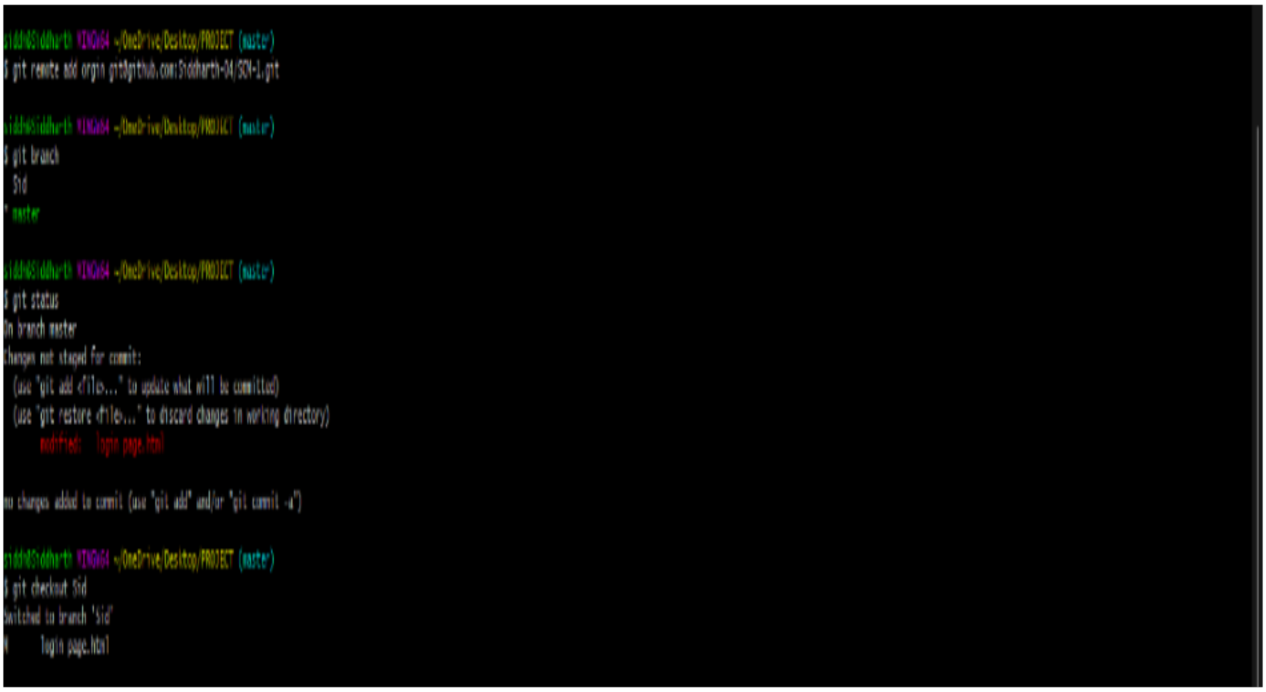
Getting a 404 error? Make sure you're signed in as Siddharth-04.

- Now all members are ready to contribute to project

Experiment :- 2

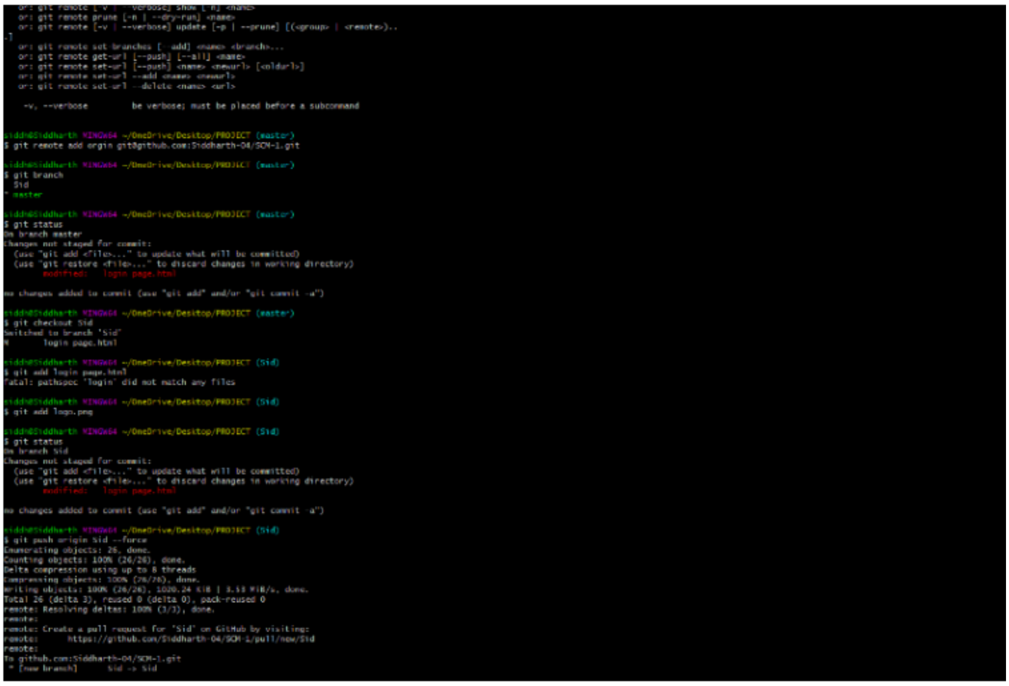
Aim: Open and Close a Pull Request

- To open a pull request we first have to make a new branch, by using git branch.
- After making new branch we add a file to the branch or make changes in the existing file.



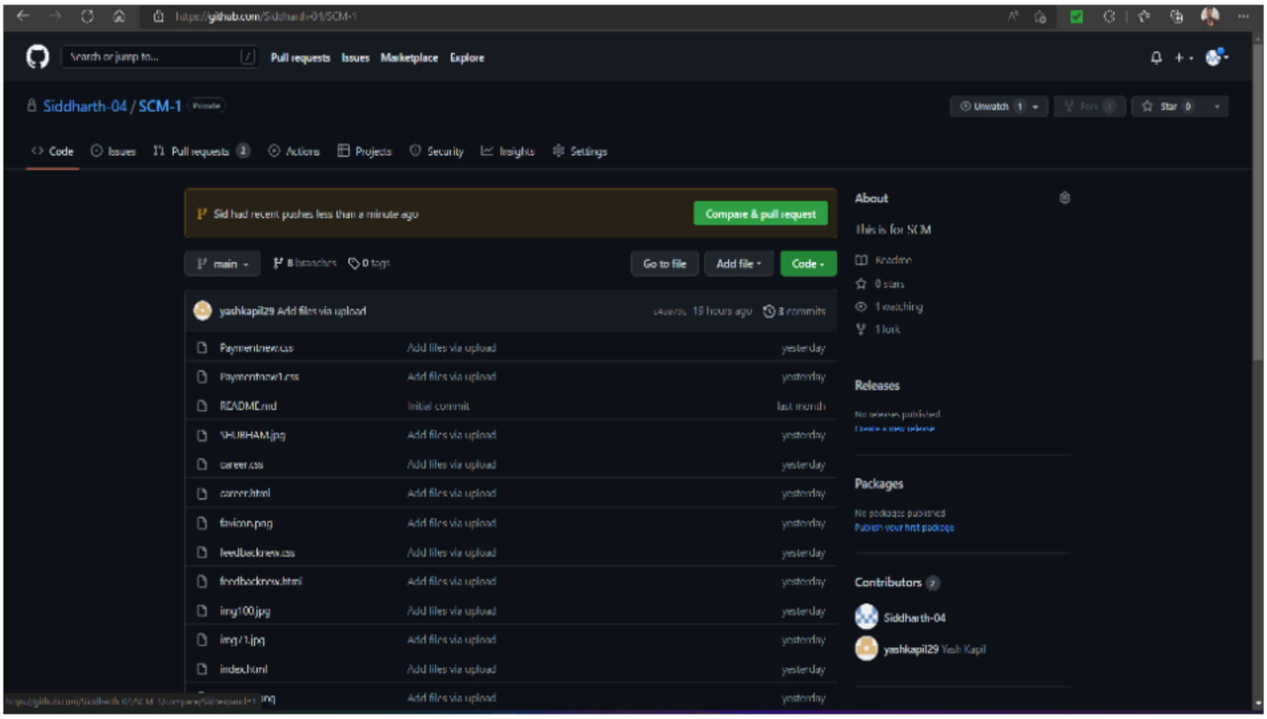
```
siddh@Siddharth MINGW64 ~/OneDrive/Desktop/PROJECT (master)
$ git remote add orgin git@github.com:Siddharth-04/SCM-1.git

siddh@Siddharth MINGW64 ~/OneDrive/Desktop/PROJECT (master)
$ git branch
  Sid
* master

siddh@Siddharth MINGW64 ~/OneDrive/Desktop/PROJECT (master)
$ git status
On branch master
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:   login page.html

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

siddh@Siddharth MINGW64 ~/OneDrive/Desktop/PROJECT (master)
$ git checkout Sid
Switched to branch 'Sid'
M       login page.html
```

- Add and commit the changes to the local repository.
- Use git push origin to push the new branch to the main repository



```
   or: git remote [-v | --verbose] show [-n] <name>
   or: git remote prune [-n | --dry-run] <name>
   or: git remote [-v | --verbose] update [-p | --prune] [(<group> | <remote>)..
.]
   or: git remote set-branches [--add] <name> <branch>...
   or: git remote get-url [--push] [--all] <name>
   or: git remote set-url [--push] <name> <newurl> [<oldurl>]
   or: git remote set-url --add <name> <newurl>
   or: git remote set-url --delete <name> <url>

    -v, --verbose         be verbose; must be placed before a subcommand


siddh@Siddharth MINGW64 ~/OneDrive/Desktop/PROJECT (master)
$ git remote add orgin git@github.com:Siddharth-04/SCM-1.git

siddh@Siddharth MINGW64 ~/OneDrive/Desktop/PROJECT (master)
$ git branch
  Sid
* master

siddh@Siddharth MINGW64 ~/OneDrive/Desktop/PROJECT (master)
$ git status
On branch master
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:   login page.html

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

siddh@Siddharth MINGW64 ~/OneDrive/Desktop/PROJECT (master)
$ git checkout Sid
Switched to branch 'Sid'
M       login page.html

siddh@Siddharth MINGW64 ~/OneDrive/Desktop/PROJECT (Sid)
$ git add login page.html
fatal: pathspec 'login' did not match any files

siddh@Siddharth MINGW64 ~/OneDrive/Desktop/PROJECT (Sid)
$ git add logo.png

siddh@Siddharth MINGW64 ~/OneDrive/Desktop/PROJECT (Sid)
$ git status
On branch Sid
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:   login page.html

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

siddh@Siddharth MINGW64 ~/OneDrive/Desktop/PROJECT (Sid)
$ git push origin Sid --force
Enumerating objects: 26, done.
Counting objects: 100% (26/26), done.
Delta compression using up to 8 threads
Compressing objects: 100% (26/26), done.
Writing objects: 100% (26/26), 1020.24 KiB | 3.53 MiB/s, done.
Total 26 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), done.
remote:
remote: Create a pull request for 'Sid' on GitHub by visiting:
remote:      https://github.com/Siddharth-04/SCM-1/pull/new/Sid
remote:
To github.com:Siddharth-04/SCM-1.git
 * [new branch]      Sid -> Sid
```

- After pushing new branch GitHub will either automatically ask you to create a pull request or you can create your own pull request by selecting the option compare & pull request.



Sid had recent pushes less than a minute ago

yashkapil29 Add files via upload 19 hours ago 3 commits

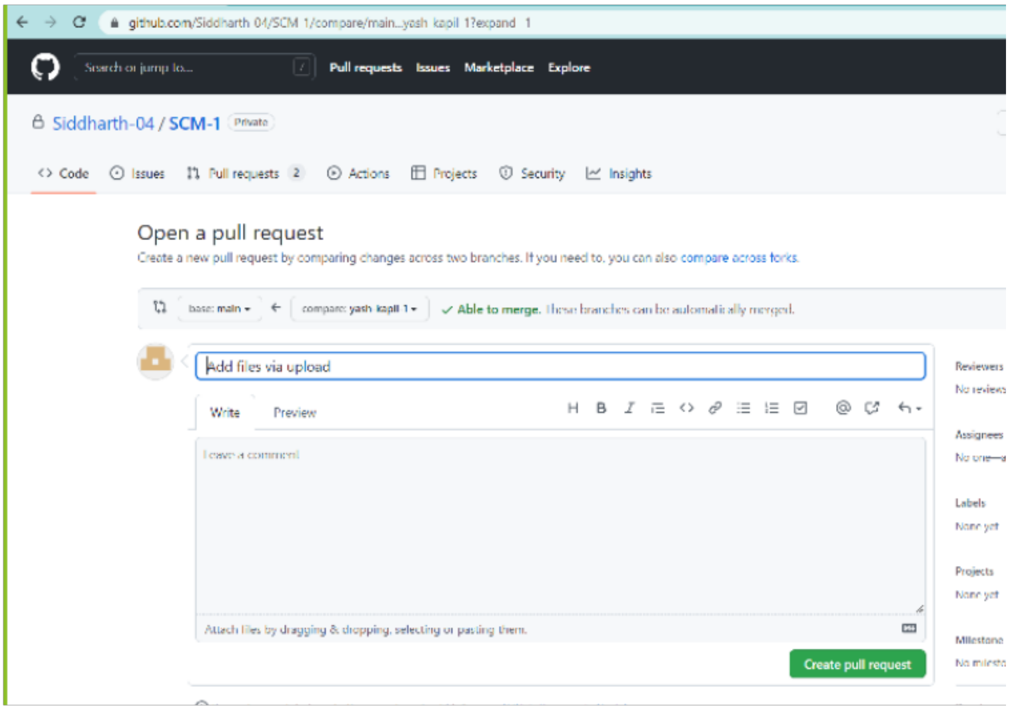
Paymentnew.css	Add files via upload	yesterday
Paymentnew1.css	Add files via upload	yesterday
README.md	Initial commit	last month
SHUBHAM.jpg	Add files via upload	yesterday
career.css	Add files via upload	yesterday
career.html	Add files via upload	yesterday
favicon.png	Add files via upload	yesterday
feedbacknew.css	Add files via upload	yesterday
feedbacknew.html	Add files via upload	yesterday
img100.jpg	Add files via upload	yesterday
img71.jpg	Add files via upload	yesterday
index.html	Add files via upload	yesterday
[illegible]ng	Add files via upload	yesterday

This is for SCM

No releases published
Create a new release

No packages published
Publish your first package

Siddharth-04
yashkapil29 Yash Kapil



Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also compare across forks.

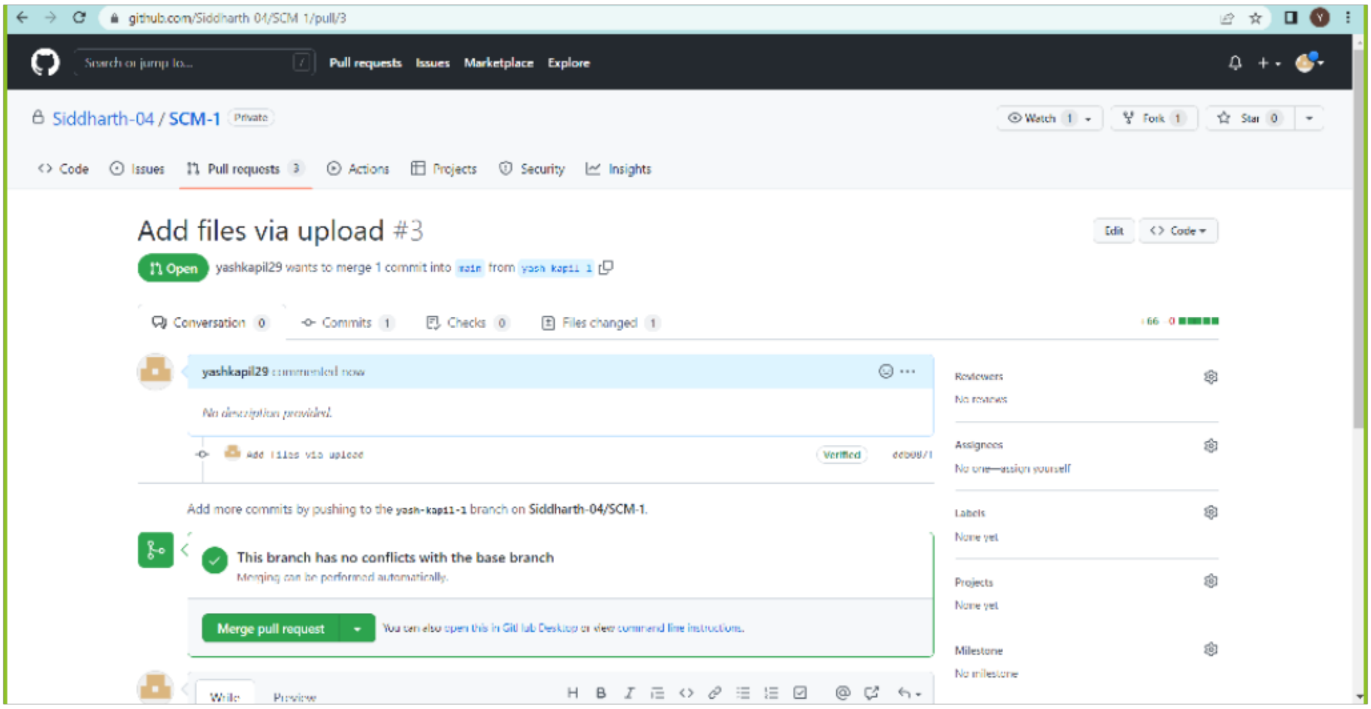
base: main ← compare: yash-kapil-1 ✓ Able to merge. These branches can be automatically merged.

Add files via upload

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

- To create your own pull request, click on create pull request option.
- GitHub will detect any conflicts and ask you to enter a description of your pull request.



Add files via upload #3

yashkapil29 wants to merge 1 commit into main from yash-kapil-1

yashkapil29 commented now

No description provided.

Add files via upload

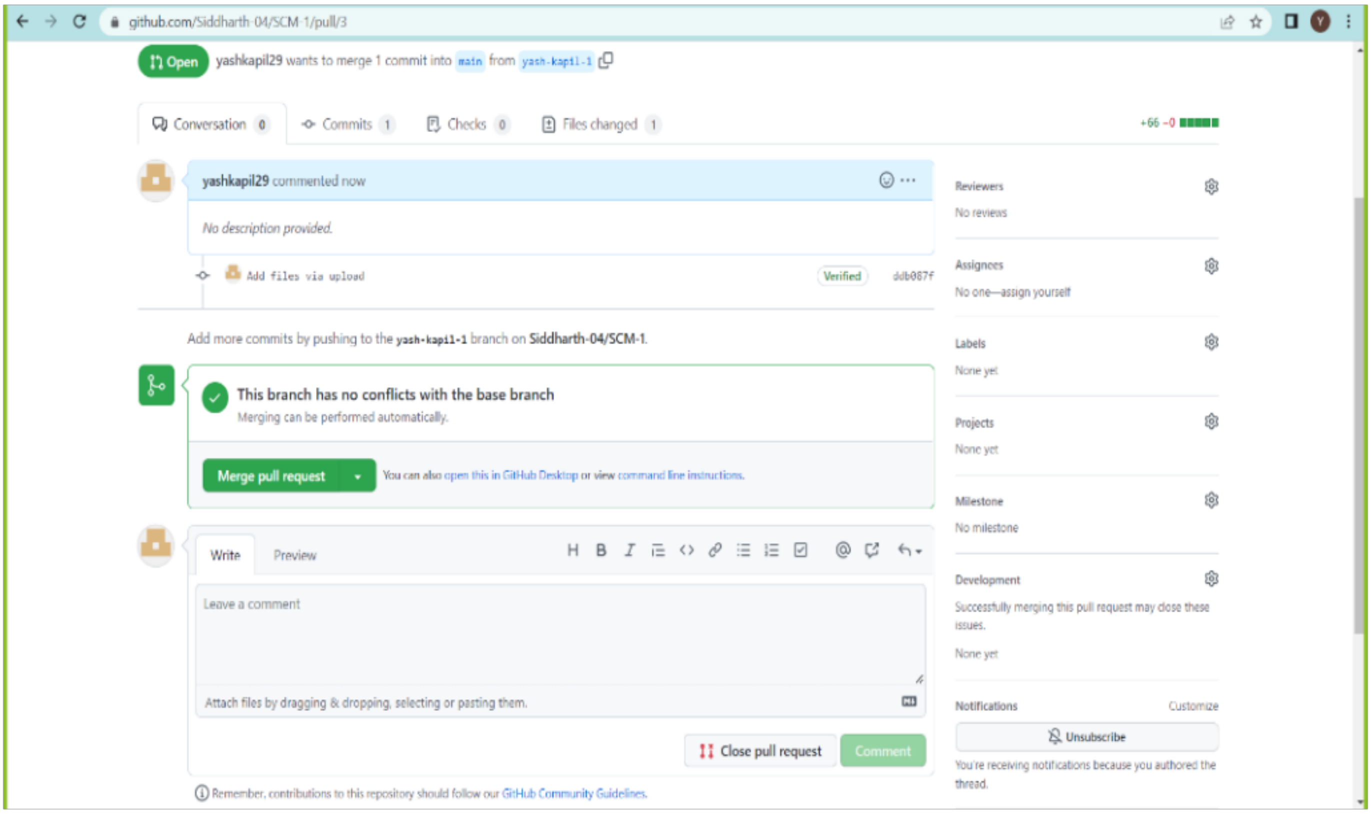
Add more commits by pushing to the yash-kapil-1 branch on Siddharth-04/SCM-1.

This branch has no conflicts with the base branch

Merging can be performed automatically.

You can also open this in GitHub Desktop or view command line instructions.

- After opening a pull request all the team members will be sent the request if they want to merge or close the request.



yashkapil29 wants to merge 1 commit into main from yash-kapil-1

yashkapil29 commented now

No description provided.

Add files via upload

Add more commits by pushing to the yash-kapil-1 branch on Siddharth-04/SCM-1.

This branch has no conflicts with the base branch

Merging can be performed automatically.

You can also open this in GitHub Desktop or view command line instructions.

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

Remember, contributions to this repository should follow our GitHub Community Guidelines.

No reviews

No one—assign yourself

None yet

None yet

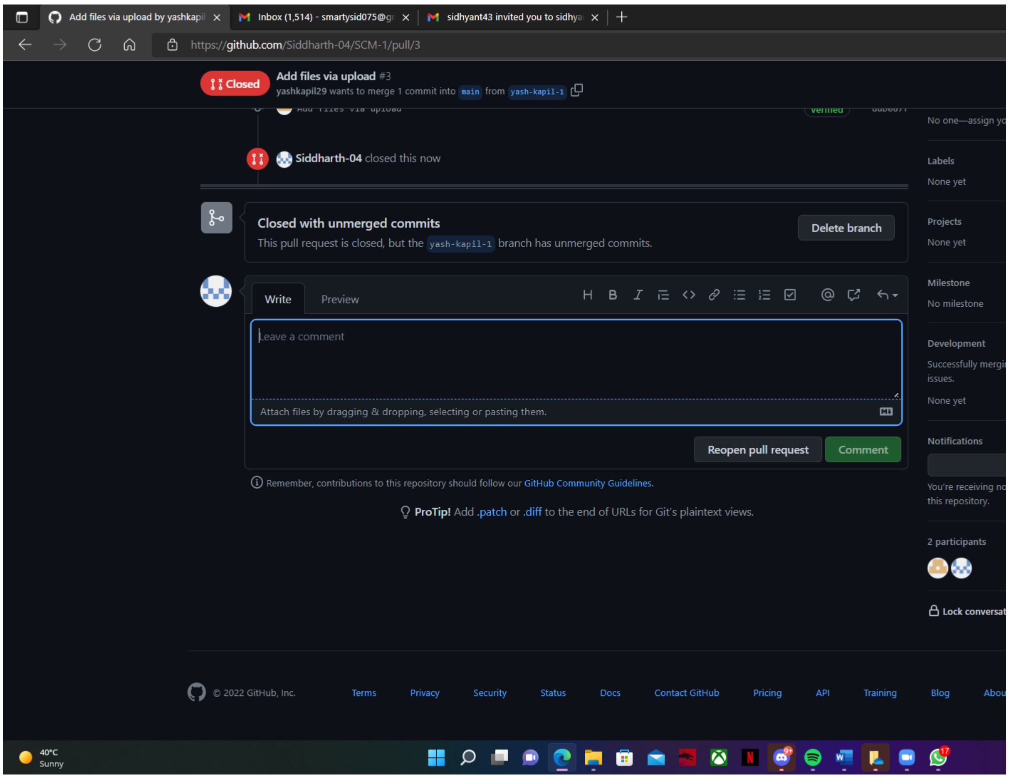
No milestone

Successfully merging this pull request may close these issues.

None yet

You're receiving notifications because you authored the thread.

- If the team member chooses not to merge your pull request they will close the pull request.
- To close the pull request simply click on close pull request and add comment/ reason why you closed the pull request.
- You can see all the pull request generated and how they were dealt with by clicking on pull request option.



Add files via upload #3

yashkapil29 wants to merge 1 commit into `main` from `yash-kapil-1`

Siddharth-04 closed this now

Closed with unmerged commits

This pull request is closed, but the `yash-kapil-1` branch has unmerged commits.

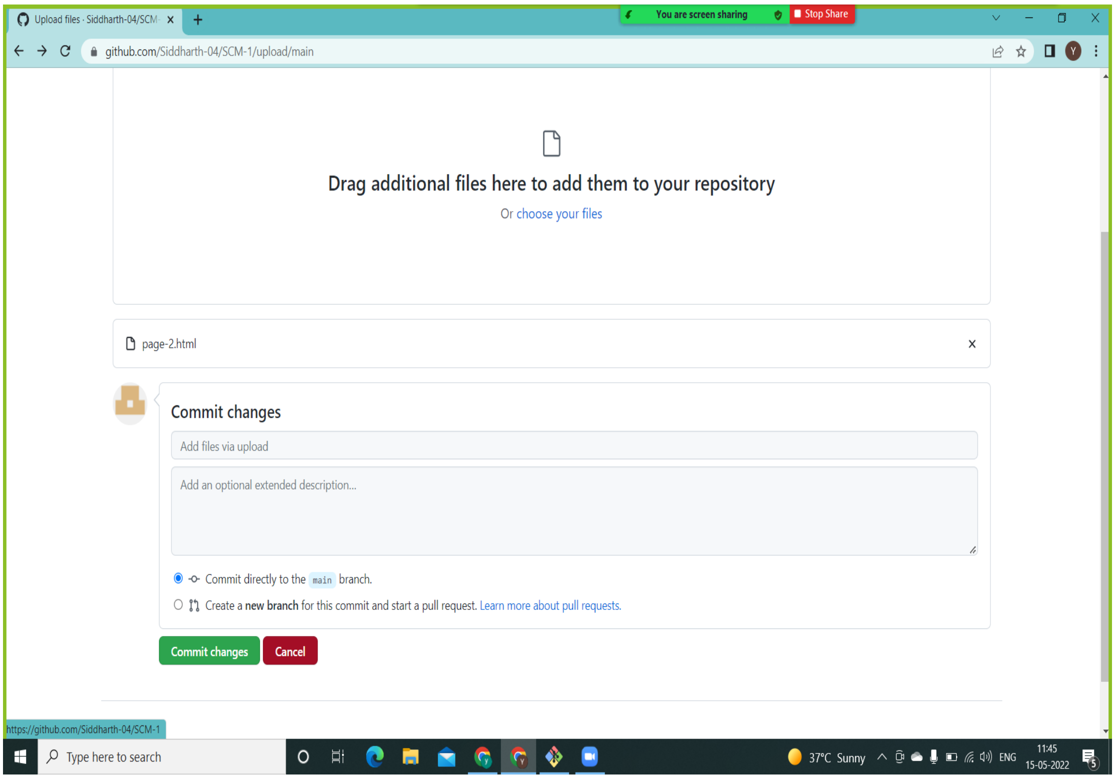
Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

Remember, contributions to this repository should follow our GitHub Community Guidelines.

ProTip! Add .patch or .diff to the end of URLs for Git's plaintext views.

If the Pull request is successfully merged by the team member:



Drag additional files here to add them to your repository

Or choose your files

page-2.html

Commit changes

Add files via upload

Add an optional extended description...

● Commit directly to the `main` branch.

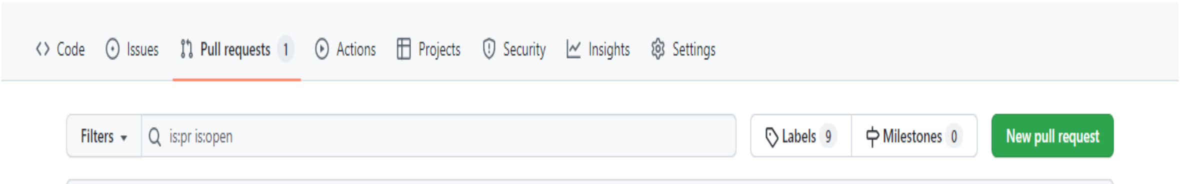
○ Create a **new branch** for this commit and start a pull request. Learn more about pull requests.

Experiment No. 03

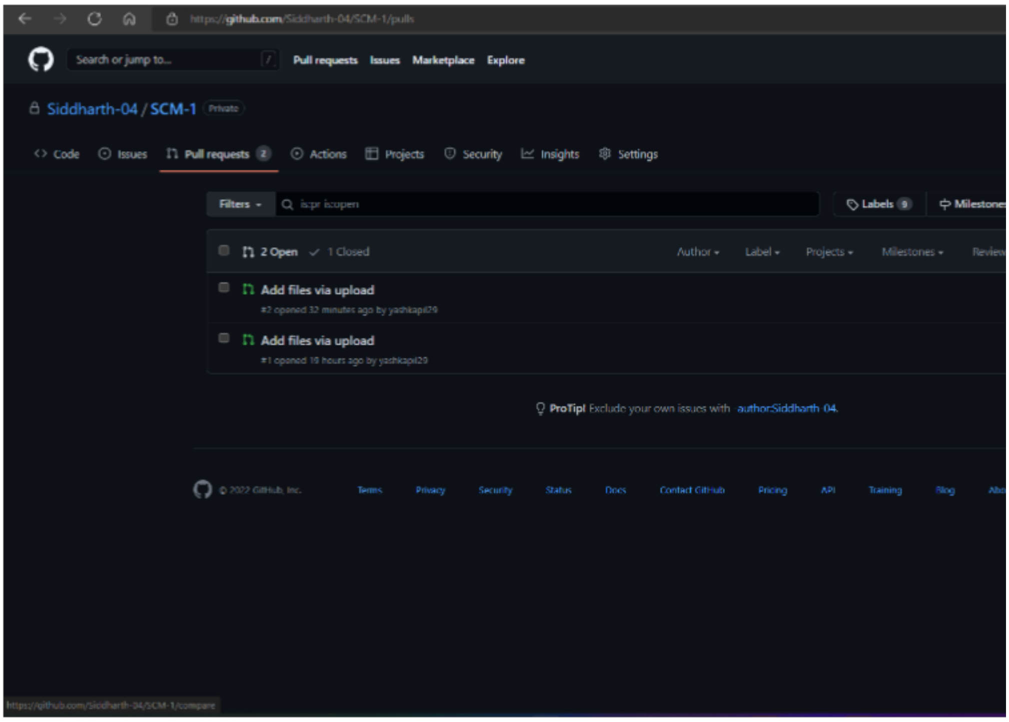
Aim: Create a pull request on a team member's repo and close pull requests generated by team members on own Repo as a maintainer

To create a pull request on a team member's repository and close requests by any other team members as a maintainer follow the procedure given below: -

- Do the required changes in the repository, add and commit these changes in the local repository in a new branch.
- Push the modified branch using git push origin branchname.
- Open a pull request by following the procedure from the above experiment.
- The pull request will be created and will be visible to all the team members.
- Ask your team member to login to his/her Github account.
- They will notice a new notification in the pull request menu.



- Click on it. The pull request generated by you will be visible to them.

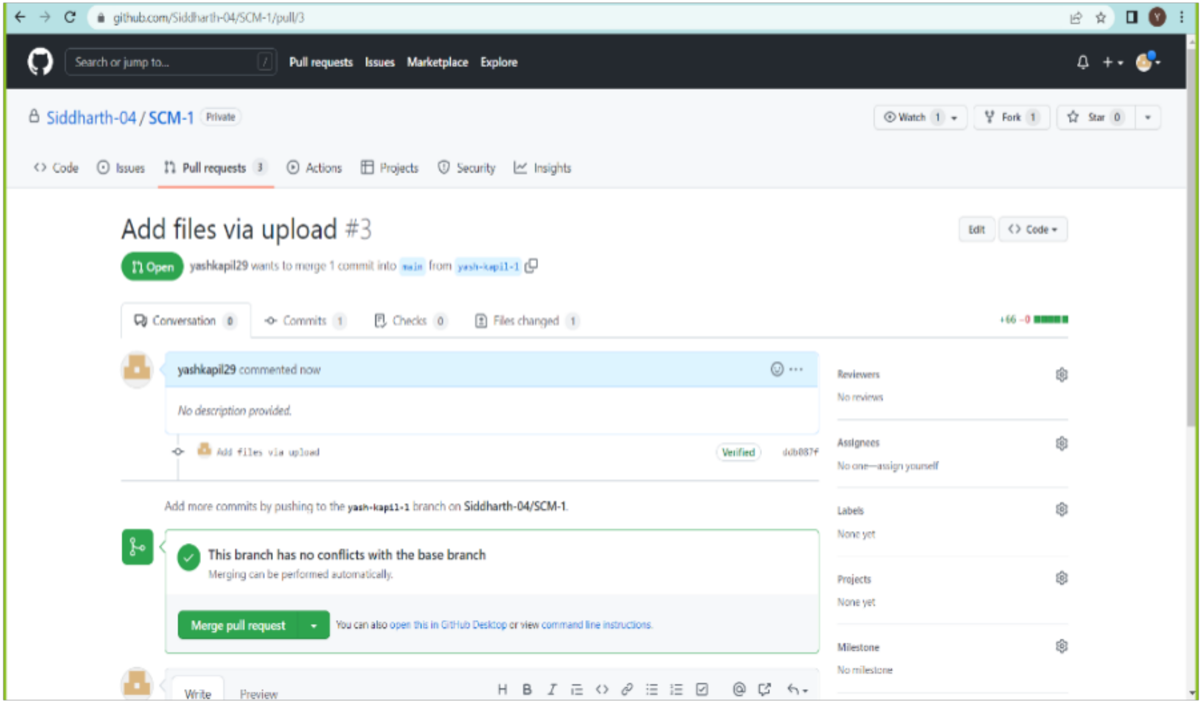


#2 opened 32 minutes ago by yashkapil29

#1 opened 16 hours ago by yashkapil29

ProTip! Exclude your own issues with author:Siddharth 04.

- Click on the pull request. Two options will be available, either to close the pull request or merge the request with the main branch.
- By selecting the merge pull request, the main branch will get updated for all the team members.



yashkapil29 wants to merge 1 commit into main from yash-kapil1-1

yashkapil29 commented now

No description provided.

Add files via upload

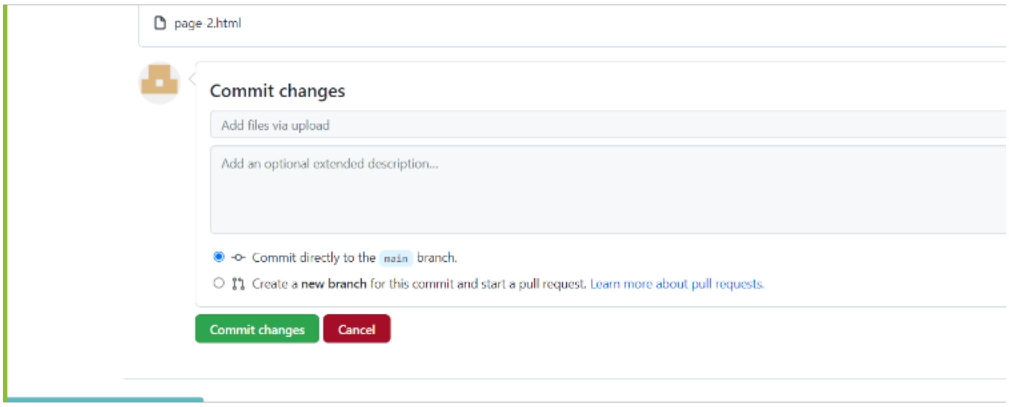
Add more commits by pushing to the yash-kapil1-1 branch on Siddharth-04/SCM-1.

This branch has no conflicts with the base branch

Merging can be performed automatically.

You can also open this in GitHub Desktop or view command line instructions.

- By selecting close the pull request the pull request is not accepted and not merged with main branch.



page 2.html

Commit changes

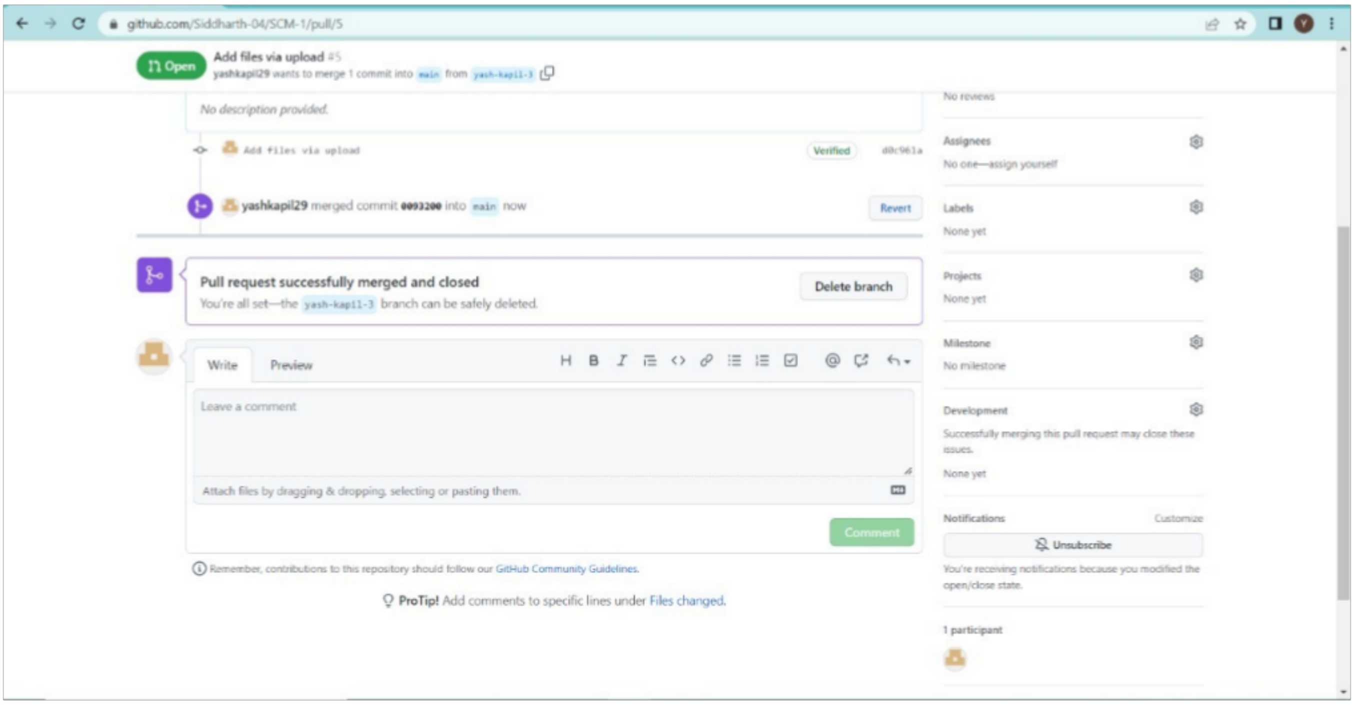
Add files via upload

Add an optional extended description...

● Commit directly to the main branch.

○ Create a new branch for this commit and start a pull request. Learn more about pull requests.

- The process is similar to closing and merging the pull request by you. It simply includes an external party to execute.
- The result of merging the pull request is shown below.



github.com/Siddharth-04/SCM-1/pull/5

Open — Add files via upload #5

yashkapil29 wants to merge 1 commit into main from yash-kapil-3

No description provided.

Add files via upload — Verified — d0c961a

yashkapil29 merged commit 0093200 into main now

Pull request successfully merged and closed

You're all set—the yash-kapil-3 branch can be safely deleted.

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

Remember, contributions to this repository should follow our GitHub Community Guidelines.

ProTip! Add comments to specific lines under Files changed.

No reviews

Assignees: No one—assign yourself

Labels: None yet

Projects: None yet

Milestone: No milestone

Development: Successfully merging this pull request may close these issues. None yet

Notifications: You're receiving notifications because you modified the open/close state.

1 participant

Siddharth-04 closed this 5 minutes ago

None yet

Experiment :- 4

Aim: Publish and print network graphs

The network graph is one of the useful features for developers on GitHub. It is used to display the branch history of the entire repository network, including branches of the root repository and branches of forks that contain commits unique to the network.

A repository's graphs give you information on traffic, projects that depend on the repository, contributors and commits to the repository, and a repository's forks and network. If you maintain a repository, you can use this data to get a better understanding of who's using your repository and why they're using it.

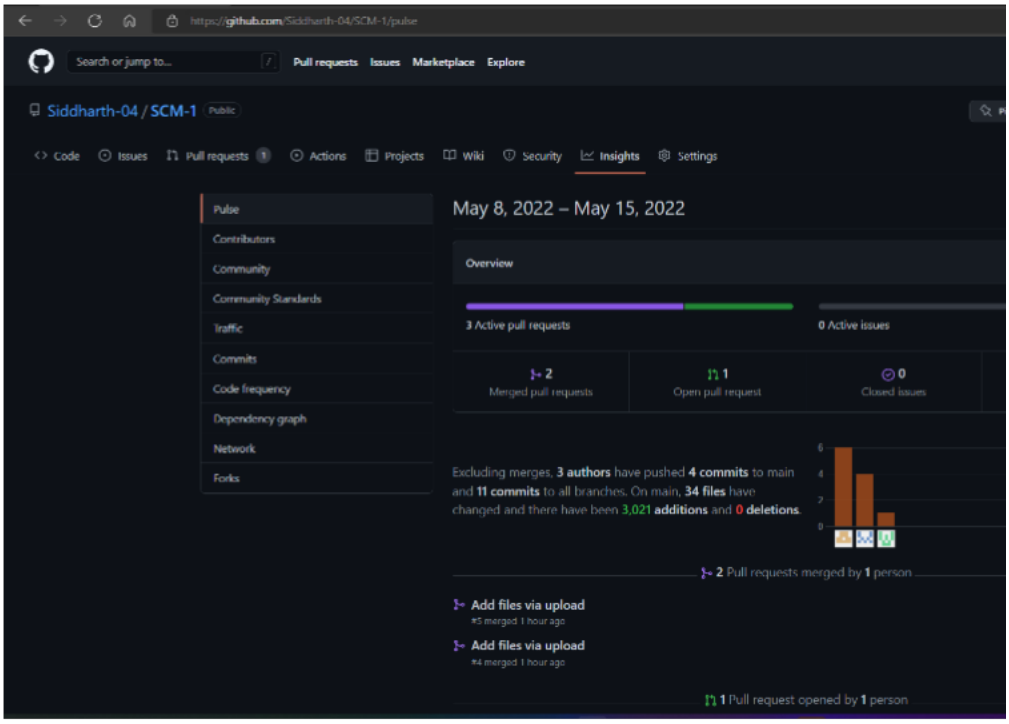
Some repository graphs are available only in public repositories with GitHub Free:

- Pulse
- Contributors
- Traffic
- Commits
- Code frequency
- Network

Steps to access network graphs of respective repository

1. On GitHub.com, navigate to the main page of the repository.

2.Under your repository name, click Insights.



May 8, 2022 – May 15, 2022

3 Active pull requests

0 Active issues

2 Merged pull requests

1 Open pull request

0 Closed issues

Excluding merges, **3 authors** have pushed **4 commits** to main and **11 commits** to all branches. On main, **34 files** have changed and there have been 3,021 **additions** and 0 **deletions**.

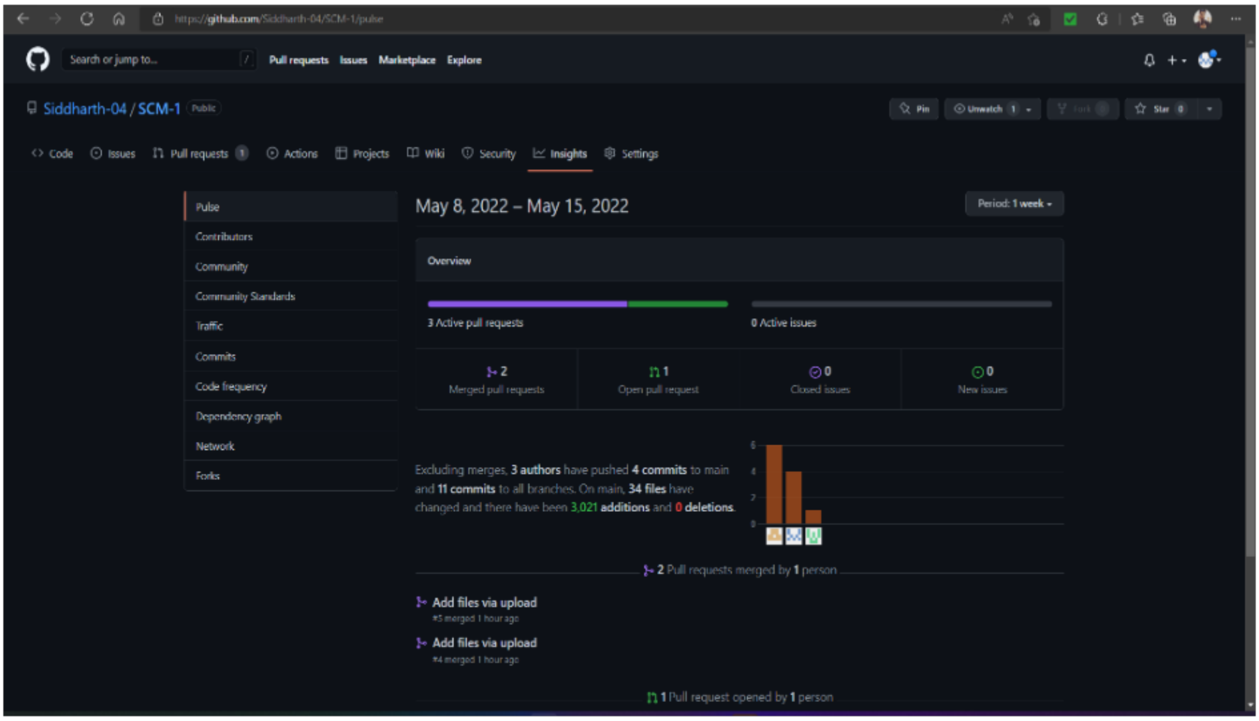
2 Pull requests merged by 1 person

Add files via upload
#5 merged 1 hour ago

Add files via upload
#4 merged 1 hour ago

1 Pull request opened by 1 person

3.At the left sidebar, click on Network.



May 8, 2022 – May 15, 2022

3 Active pull requests

0 Active issues

2 Merged pull requests

1 Open pull request

0 Closed issues

0 New issues

Excluding merges, **3 authors** have pushed **4 commits** to main and **11 commits** to all branches. On main, **34 files** have changed and there have been 3,021 **additions** and 0 **deletions**.

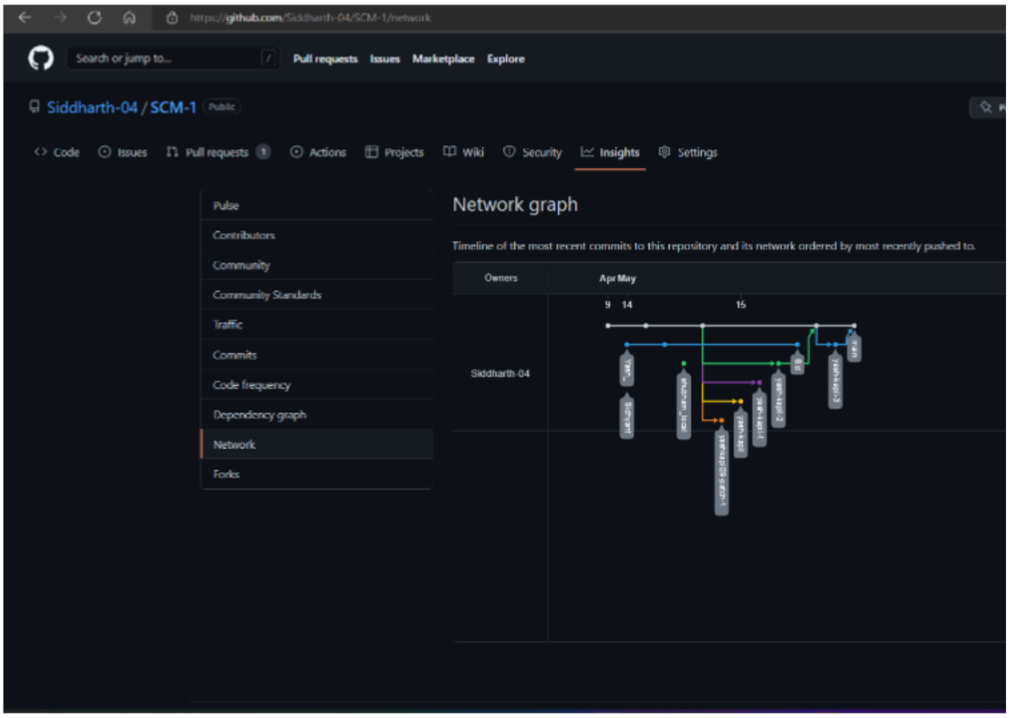
2 Pull requests merged by 1 person

Add files via upload
#5 merged 1 hour ago

Add files via upload
#4 merged 1 hour ago

1 Pull request opened by 1 person

You will get the network graph of your repository which displays the branch history of the entire repository network, including branches of the root repository and branches of forks that contain commits unique to the network.

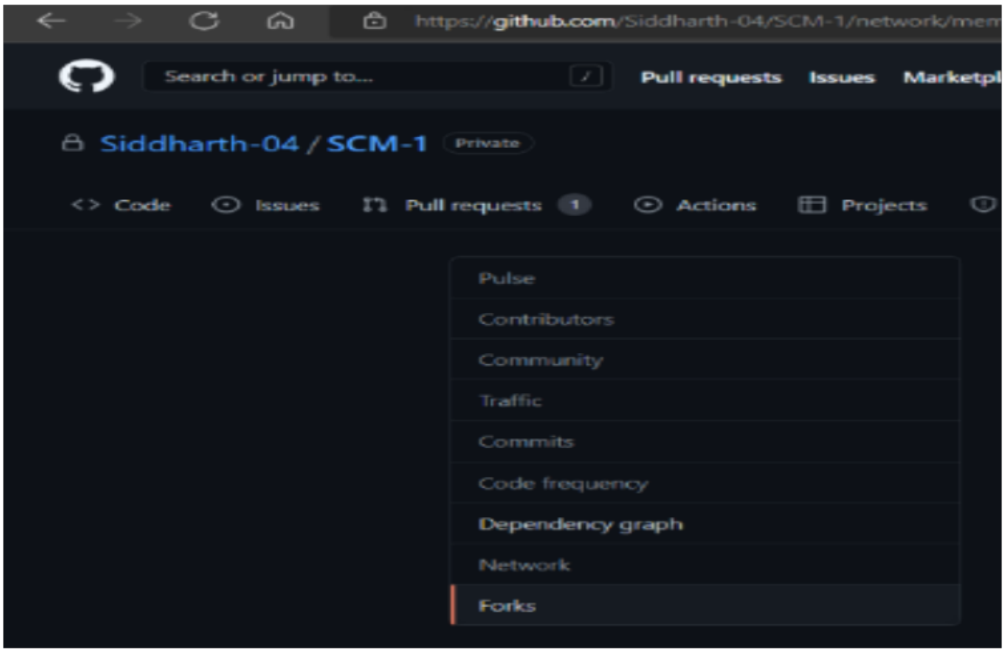


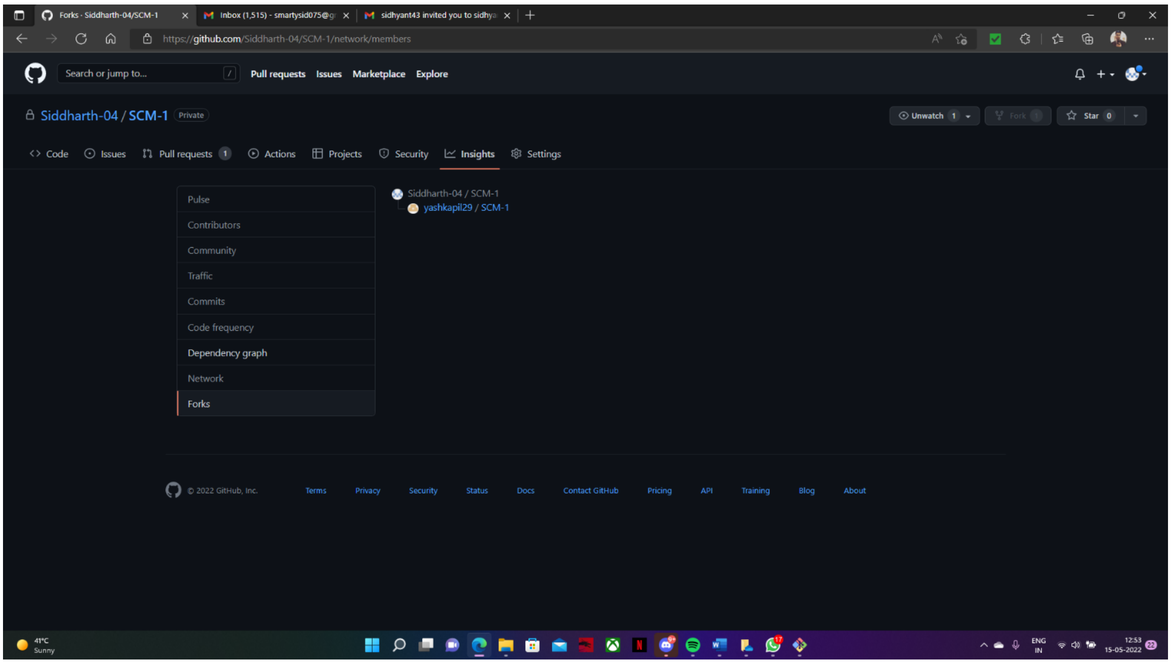
Listing the forks of a repository

Forks are listed alphabetically by the username of the person who forked the repository

Clicking the number of forks shows you the full network. From there you can click "members" to see who forked the repo

1. On GitHub.com, navigate to the main page of the repository.
2. Under your repository name, click Insights.





Siddharth-04 / SCM-1
yashkapil29 / SCM-1

Here on left sidebar, click on forks

Here you can see all the forks

Viewing the dependencies of a repository

You can use the dependency graph to explore the code your repository depends on.

Almost all software relies on code developed and maintained by other developers, often known as a supply chain. For example, utilities, libraries, and frameworks. These dependencies are an integral part of your code and any bugs or vulnerabilities in them may affect your code. It's important to review and maintain these dependencies.