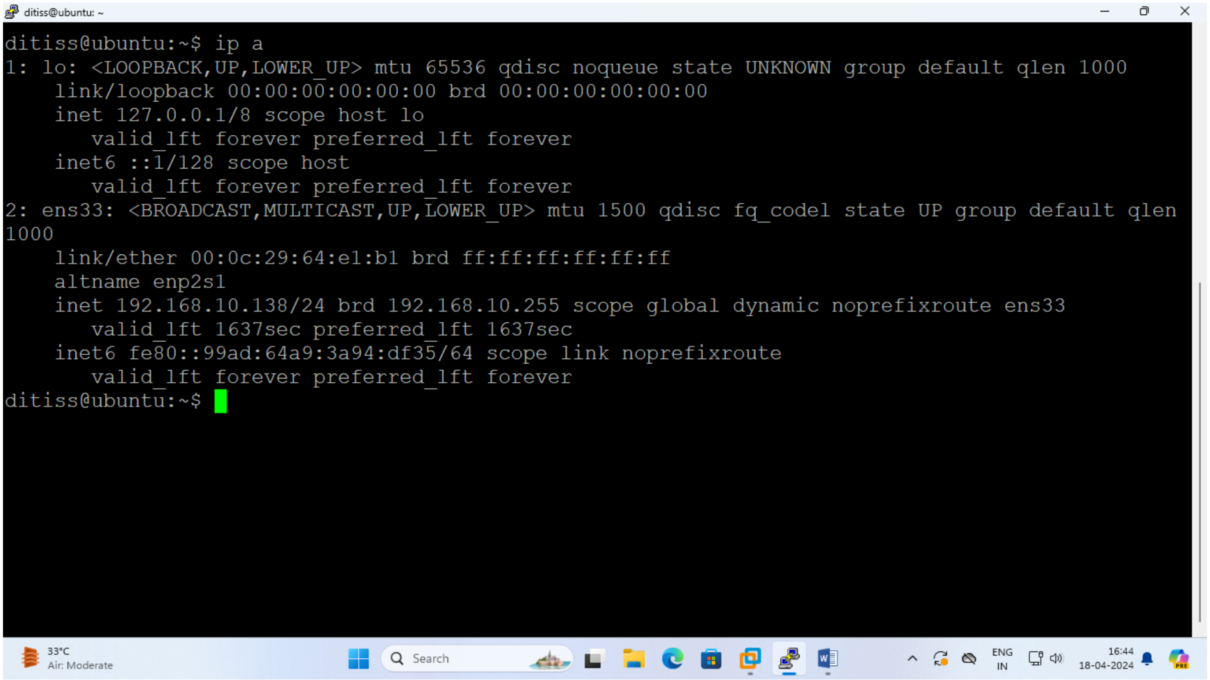
Git Practical



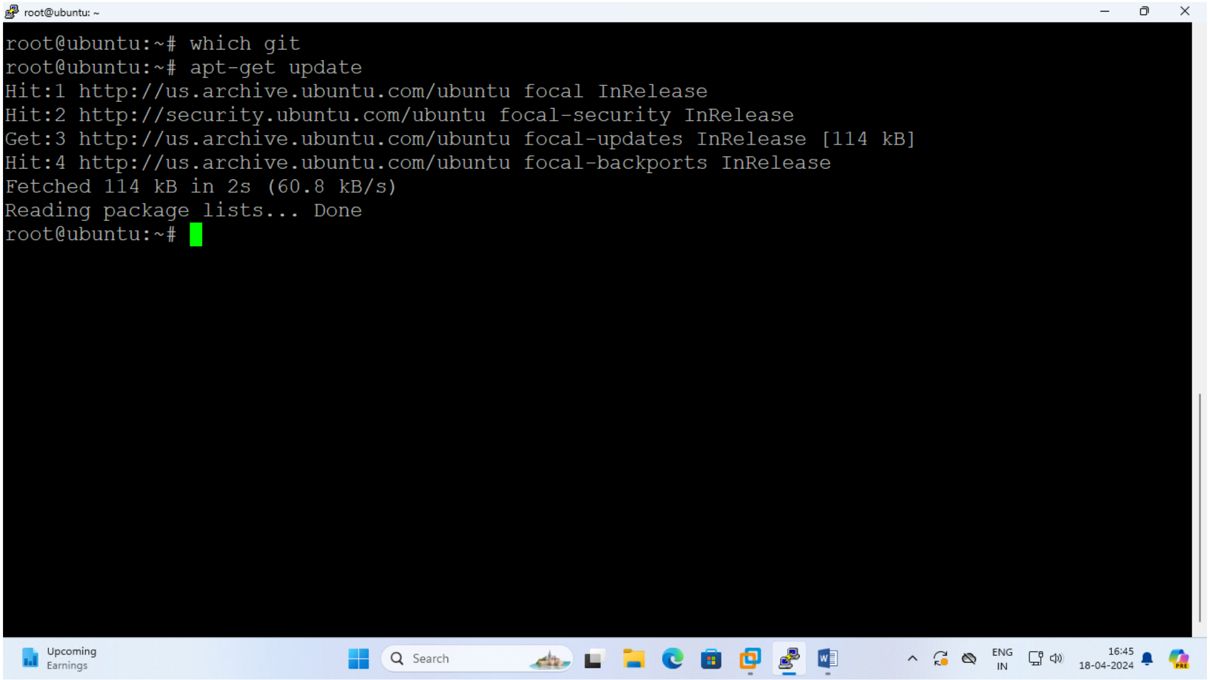
```
ditiss@ubuntu:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen
1000
    link/ether 00:0c:29:64:e1:b1 brd ff:ff:ff:ff:ff:ff
    altname enp2s1
    inet 192.168.10.138/24 brd 192.168.10.255 scope global dynamic noprefixroute ens33
       valid_lft 1637sec preferred_lft 1637sec
    inet6 fe80::99ad:64a9:3a94:df35/64 scope link noprefixroute
       valid_lft forever preferred_lft forever
ditiss@ubuntu:~$
```

first check git is install or not

#which git

then update the machine

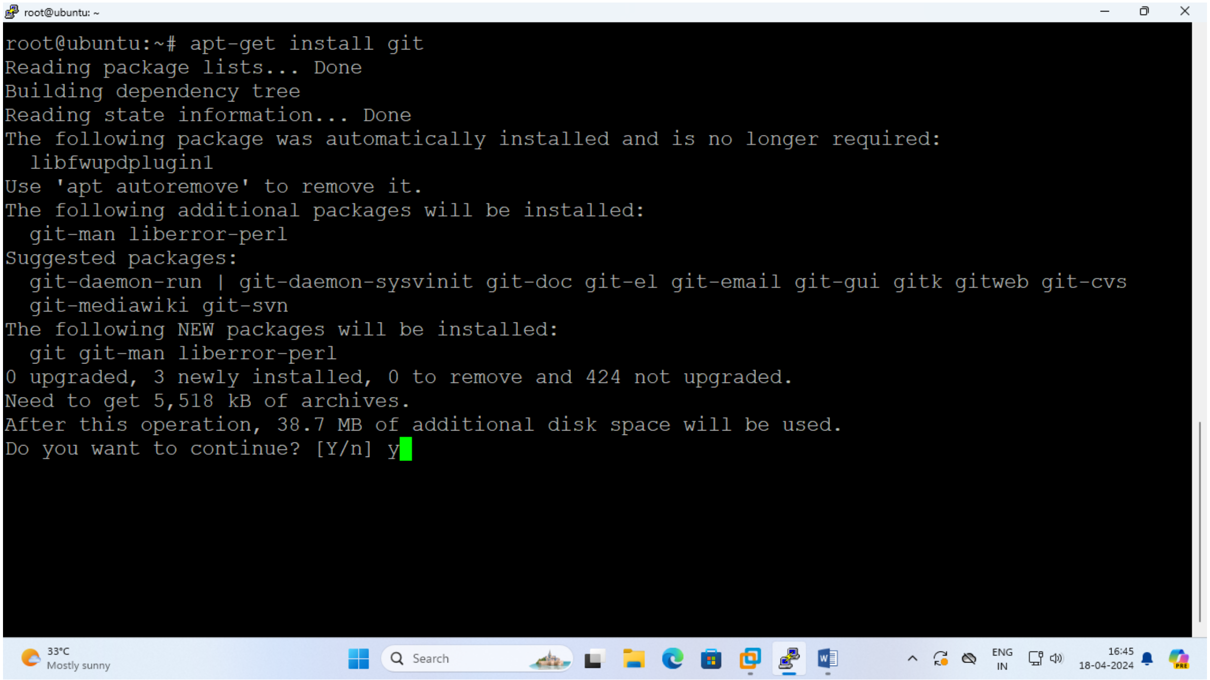
#sudo apt-get update



```
root@ubuntu:~# which git
root@ubuntu:~# apt-get update
Hit:1 http://us.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://security.ubuntu.com/ubuntu focal-security InRelease
Get:3 http://us.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Hit:4 http://us.archive.ubuntu.com/ubuntu focal-backports InRelease
Fetched 114 kB in 2s (60.8 kB/s)
Reading package lists... Done
root@ubuntu:~#
```

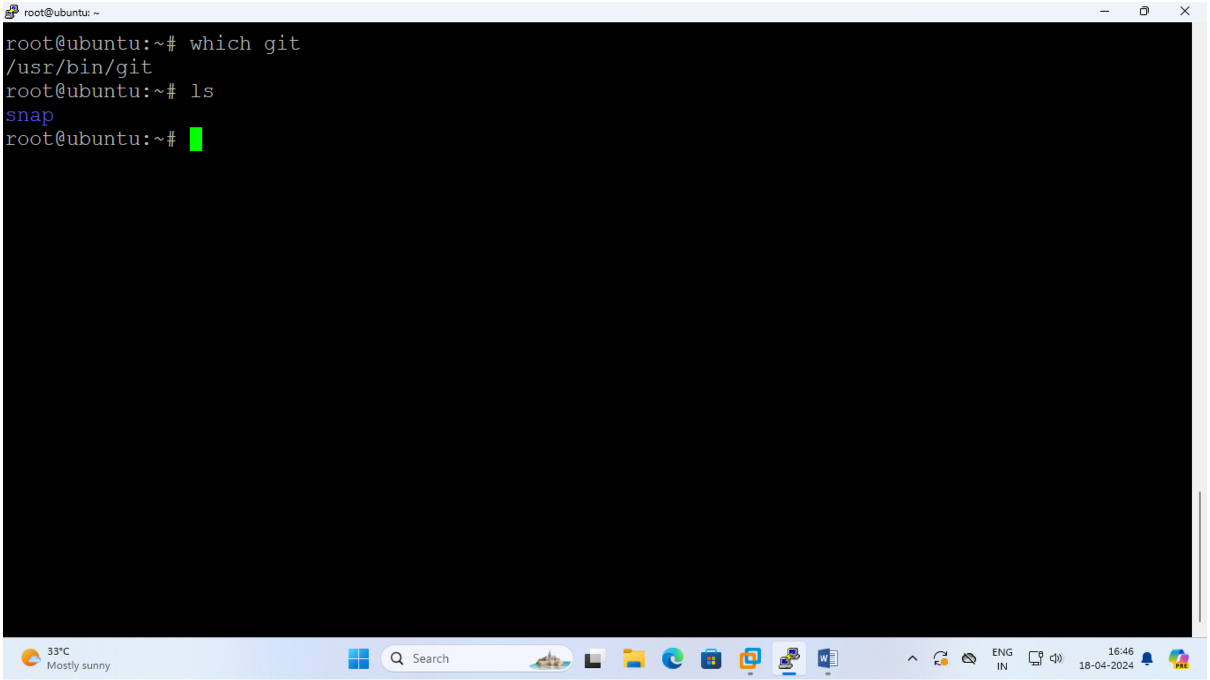
Install git by using this command

#sudo apt-get install git



```
root@ubuntu:~# apt-get install git
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following package was automatically installed and is no longer required:
  libfwupdplugin1
Use 'apt autoremove' to remove it.
The following additional packages will be installed:
  git-man liberror-perl
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk gitweb git-cvs
  git-mediawiki git-svn
The following NEW packages will be installed:
  git git-man liberror-perl
0 upgraded, 3 newly installed, 0 to remove and 424 not upgraded.
Need to get 5,518 kB of archives.
After this operation, 38.7 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

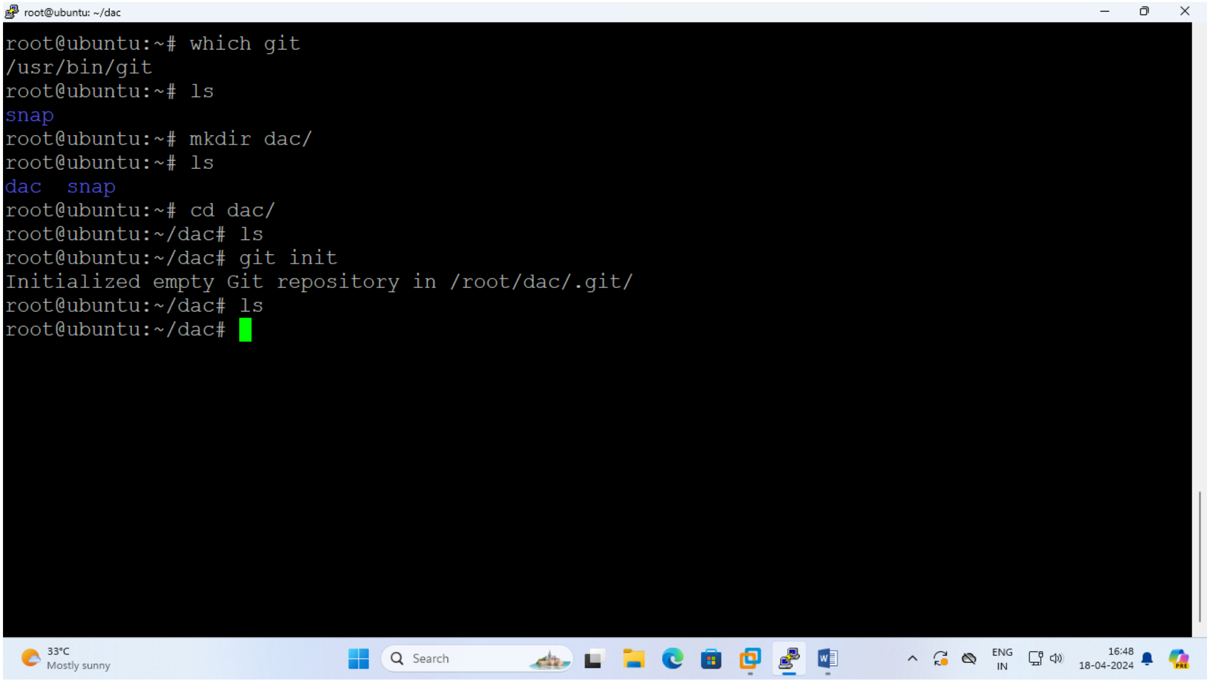
After installing git check is it install or not



```
root@ubuntu:~# which git
/usr/bin/git
root@ubuntu:~# ls
snap
root@ubuntu:~#
```

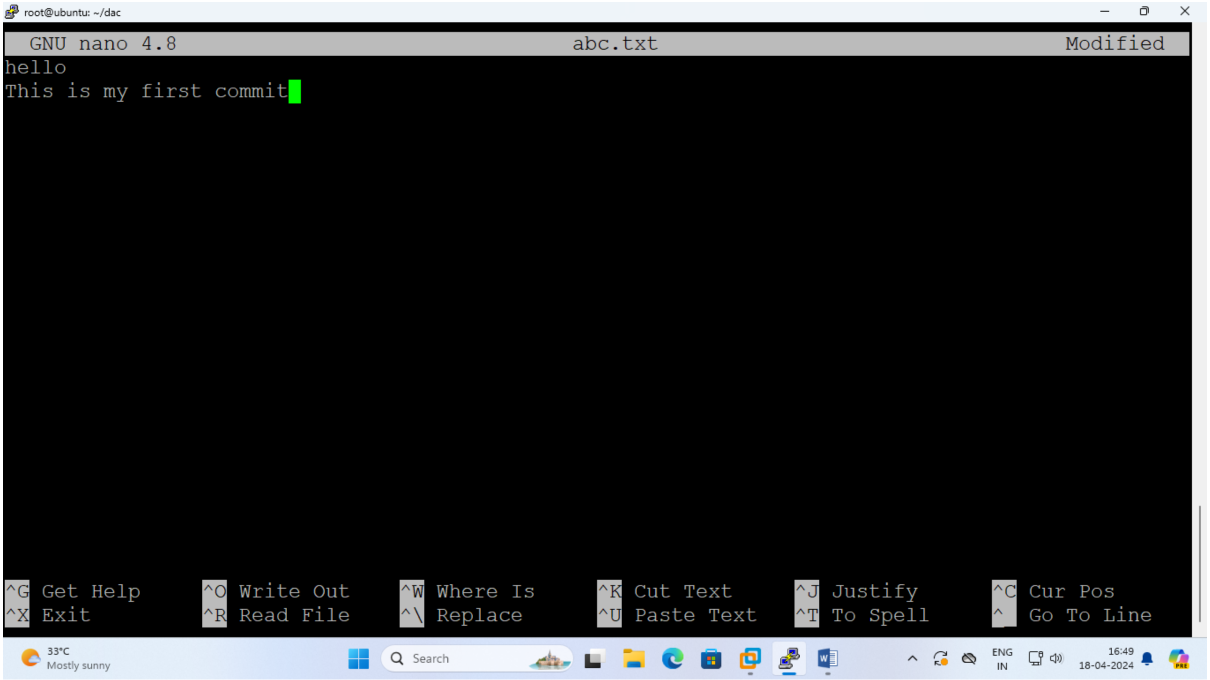
Create 1 folder→go to that folder

#git init ……………………. initialize an existing directory as a Git repository



```
root@ubuntu:~# which git
/usr/bin/git
root@ubuntu:~# ls
snap
root@ubuntu:~# mkdir dac/
root@ubuntu:~# ls
dac  snap
root@ubuntu:~# cd dac/
root@ubuntu:~/dac# ls
root@ubuntu:~/dac# git init
Initialized empty Git repository in /root/dac/.git/
root@ubuntu:~/dac# ls
root@ubuntu:~/dac#
```

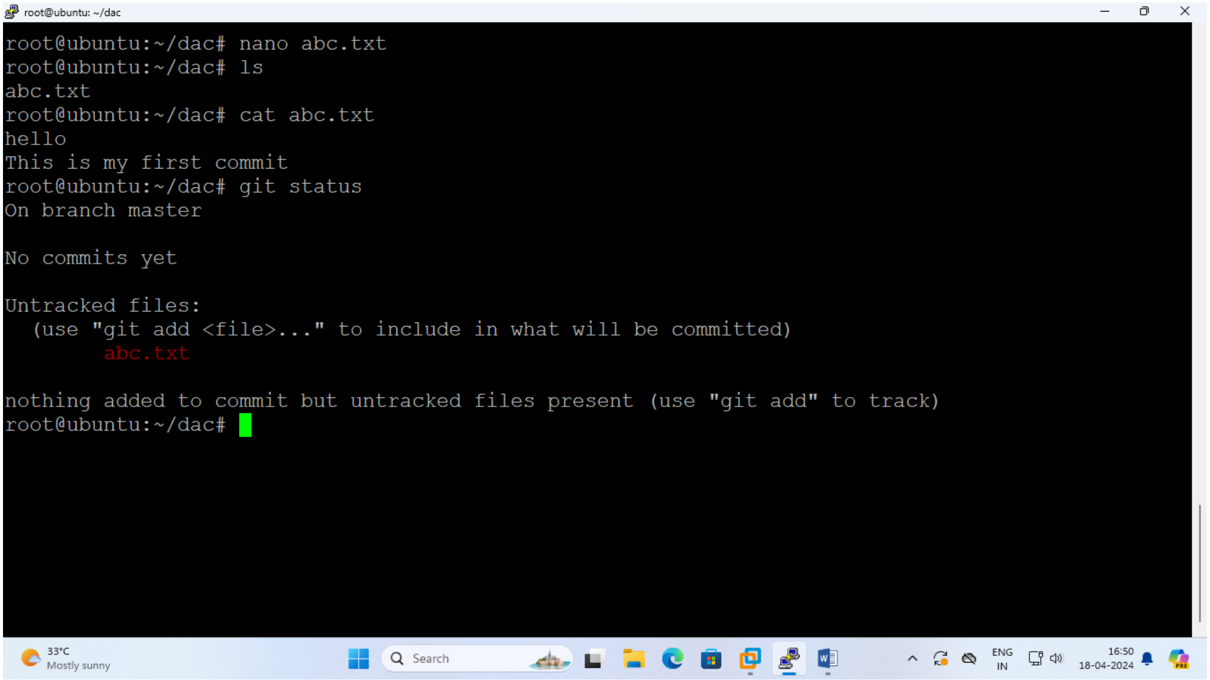
Create on file → and write some content in that file→ save the file



```
  GNU nano 4.8                         abc.txt                           Modified
hello
This is my first commit
```

Check the git status→write now the status of that file is untracked

git status→ show modified files in working directory, staged for your next commit



```
root@ubuntu:~/dac# nano abc.txt
root@ubuntu:~/dac# ls
abc.txt
root@ubuntu:~/dac# cat abc.txt
hello
This is my first commit
root@ubuntu:~/dac# git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        abc.txt

nothing added to commit but untracked files present (use "git add" to track)
root@ubuntu:~/dac#
```

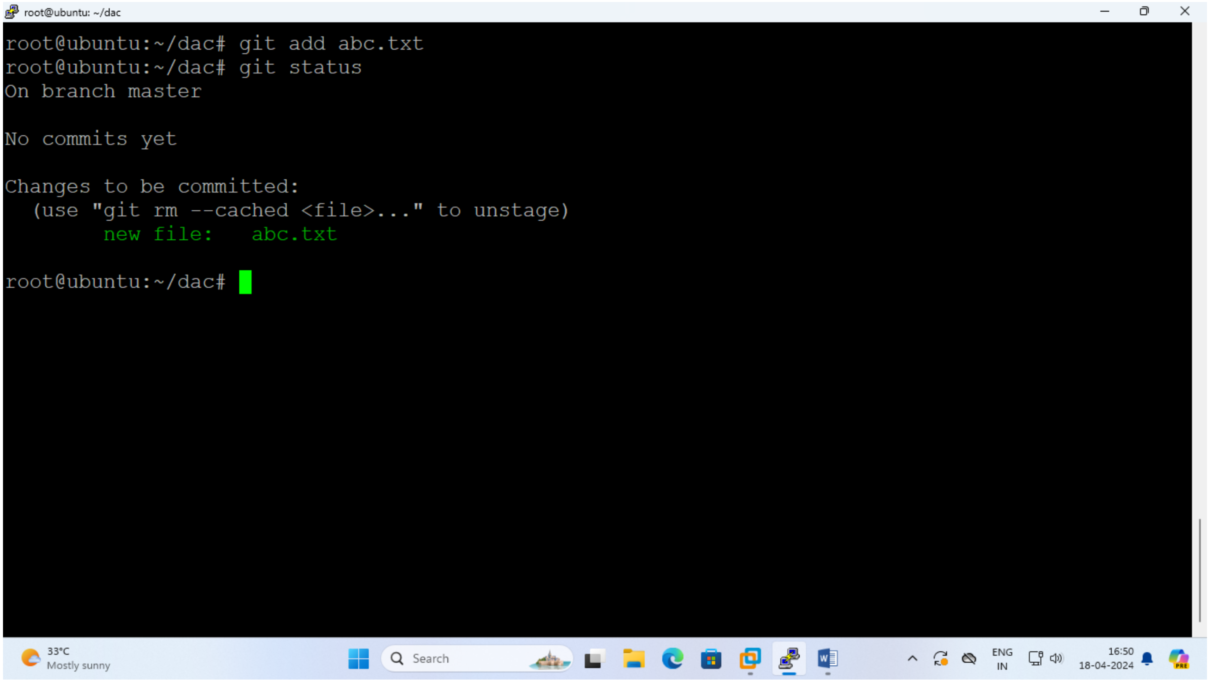
To track file, use command

#git add <file name>

then check file status

#git status

now the status is tracked and file is in git radar



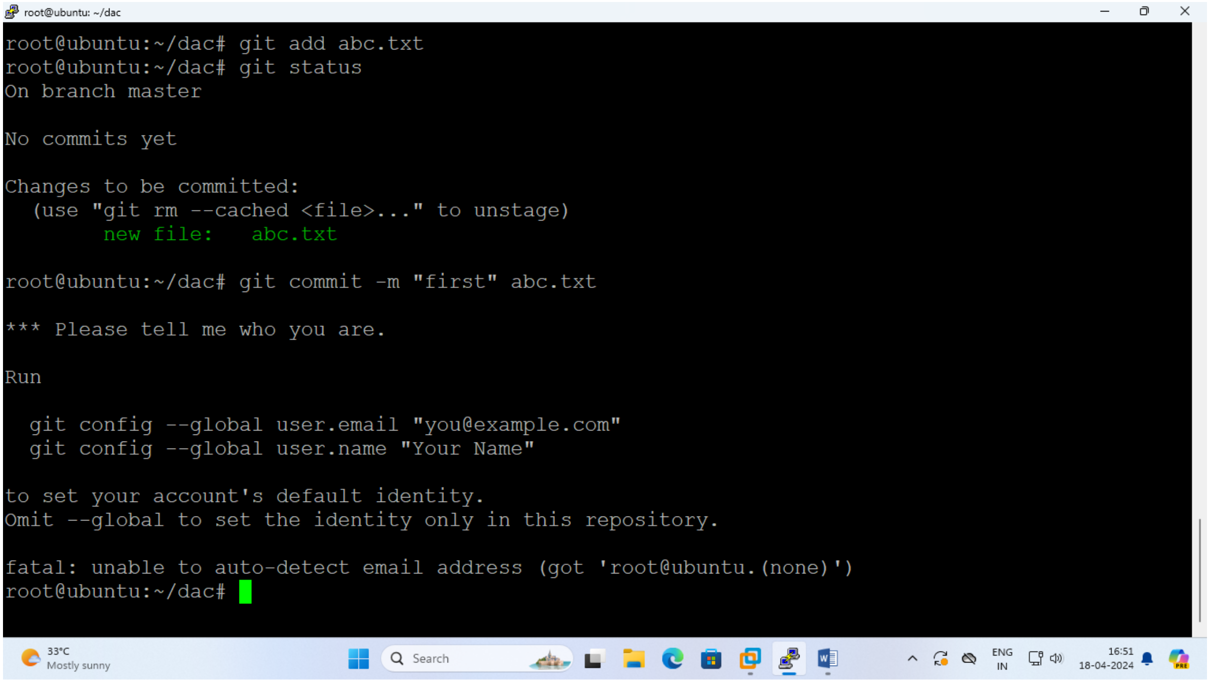
```
root@ubuntu:~/dac# git add abc.txt
root@ubuntu:~/dac# git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   abc.txt

root@ubuntu:~/dac#
```

#git commit -m "[descriptive message]"

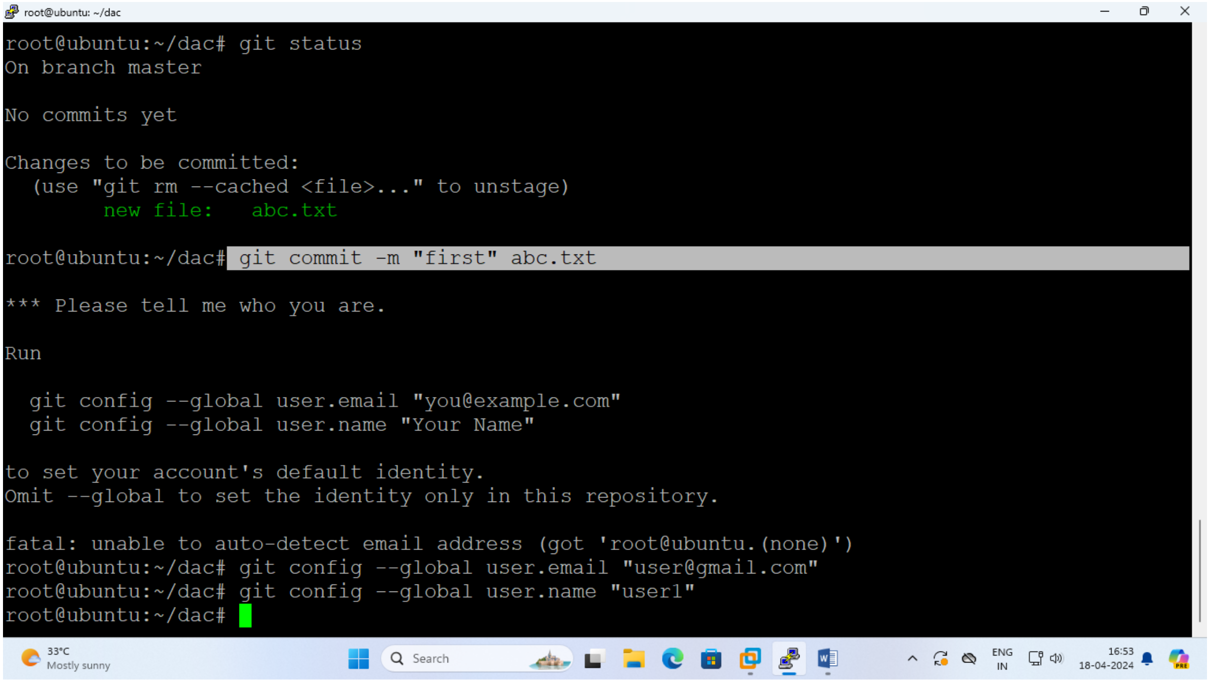
commit your staged content as a new commit snapshot

#git config --global user.name "Your Name" →Set the name that will be attached to your commits and tags.

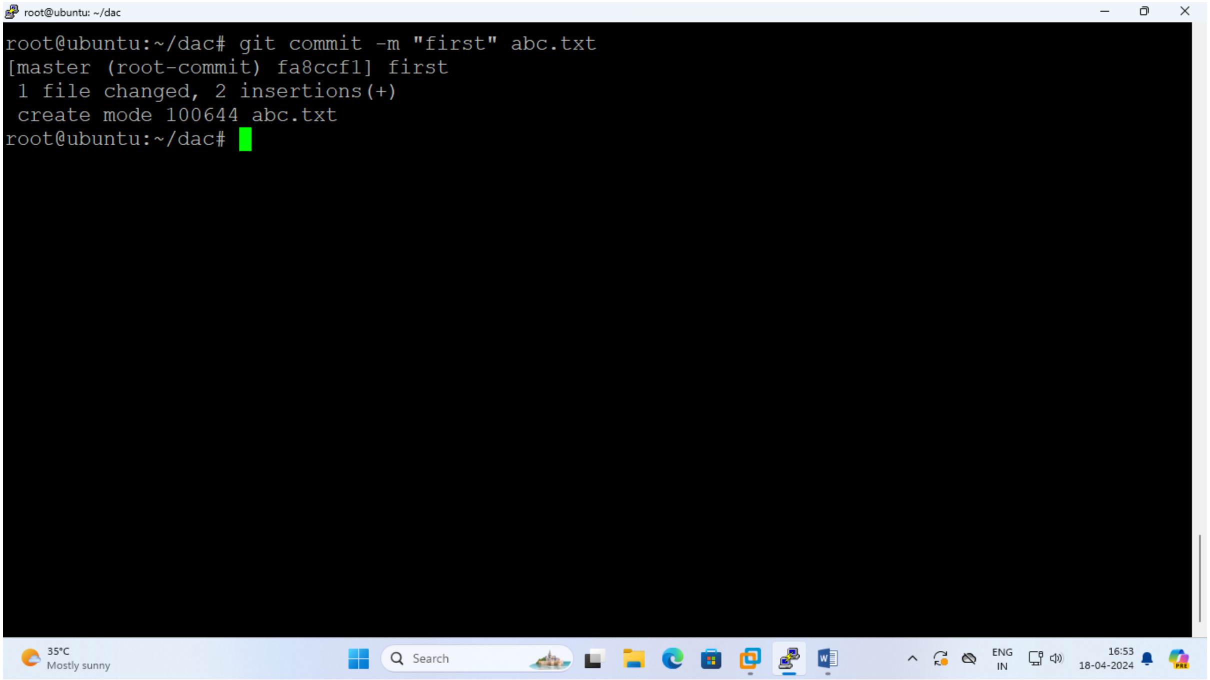
#git config --global user.email "you@example. com" →Set the e-mail address that will be attached to your commits and tags.



```
root@ubuntu:~/dac# git add abc.txt
root@ubuntu:~/dac# git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   abc.txt

root@ubuntu:~/dac# git commit -m "first" abc.txt

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'root@ubuntu.(none)')
root@ubuntu:~/dac# 
```

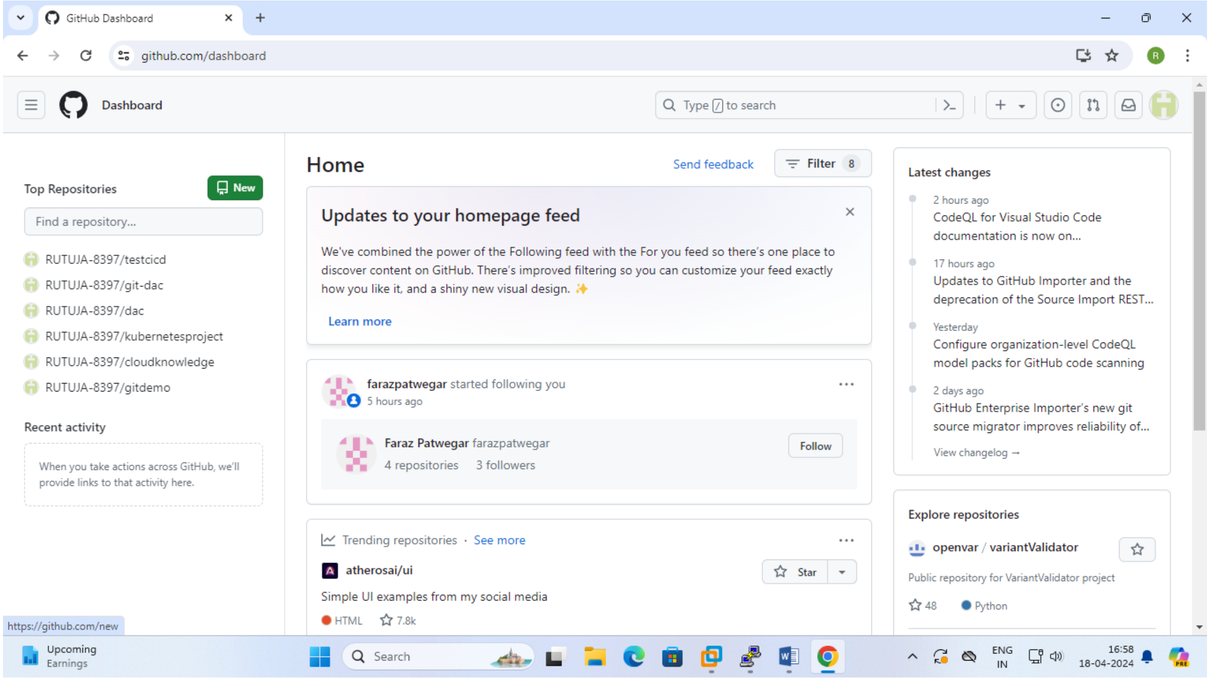


```
root@ubuntu:~/dac# git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   abc.txt

root@ubuntu:~/dac# git commit -m "first" abc.txt

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'root@ubuntu.(none)')
root@ubuntu:~/dac# git config --global user.email "user@gmail.com"
root@ubuntu:~/dac# git config --global user.name "user1"
root@ubuntu:~/dac# 
```



```
root@ubuntu:~/dac# git commit -m "first" abc.txt
[master (root-commit) fa8ccf1] first
 1 file changed, 2 insertions(+)
 create mode 100644 abc.txt
root@ubuntu:~/dac# 
```

Go to github→click on new→create new repository



Top Repositories

- RUTUJA-8397/testcicd
- RUTUJA-8397/git-dac
- RUTUJA-8397/dac
- RUTUJA-8397/kubernetesproject
- RUTUJA-8397/cloudknowledge
- RUTUJA-8397/gitdemo

Recent activity

When you take actions across GitHub, we'll provide links to that activity here.

Home

Updates to your homepage feed

We've combined the power of the Following feed with the For you feed so there's one place to discover content on GitHub. There's improved filtering so you can customize your feed exactly how you like it, and a shiny new visual design. ✨

Learn more

farazpatwegar started following you
5 hours ago

Faraz Patwegar farazpatwegar
4 repositories 3 followers

Trending repositories · See more

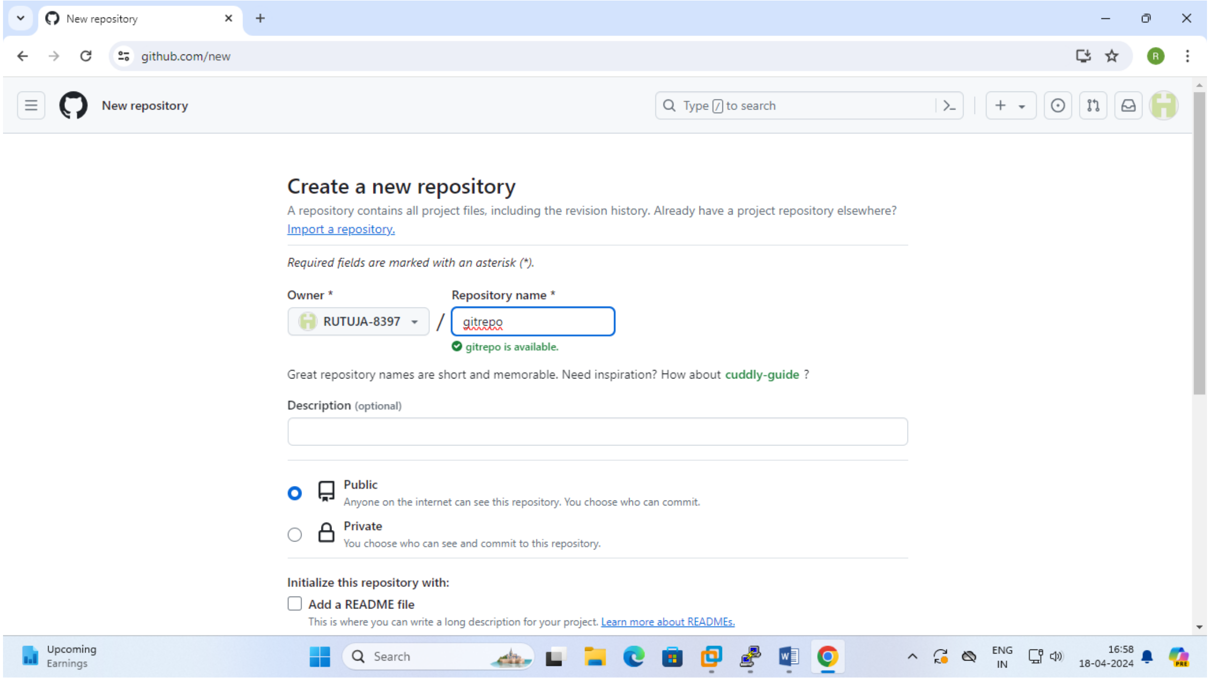
atherosai/ui
Simple UI examples from my social media
● HTML ☆ 7.8k

Latest changes

- 2 hours ago
  CodeQL for Visual Studio Code documentation is now on...
- 17 hours ago
  Updates to GitHub Importer and the deprecation of the Source Import REST...
- Yesterday
  Configure organization-level CodeQL model packs for GitHub code scanning
- 2 days ago
  GitHub Enterprise Importer's new git source migrator improves reliability of...

Explore repositories

openvar / variantValidator
Public repository for VariantValidator project
☆ 48 ● Python



Create a new repository

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

Required fields are marked with an asterisk (*).

Owner * RUTUJA-8397 / Repository name * gitrepo

✓ gitrepo is available.

Great repository names are short and memorable. Need inspiration? How about **cuddly-guide** ?

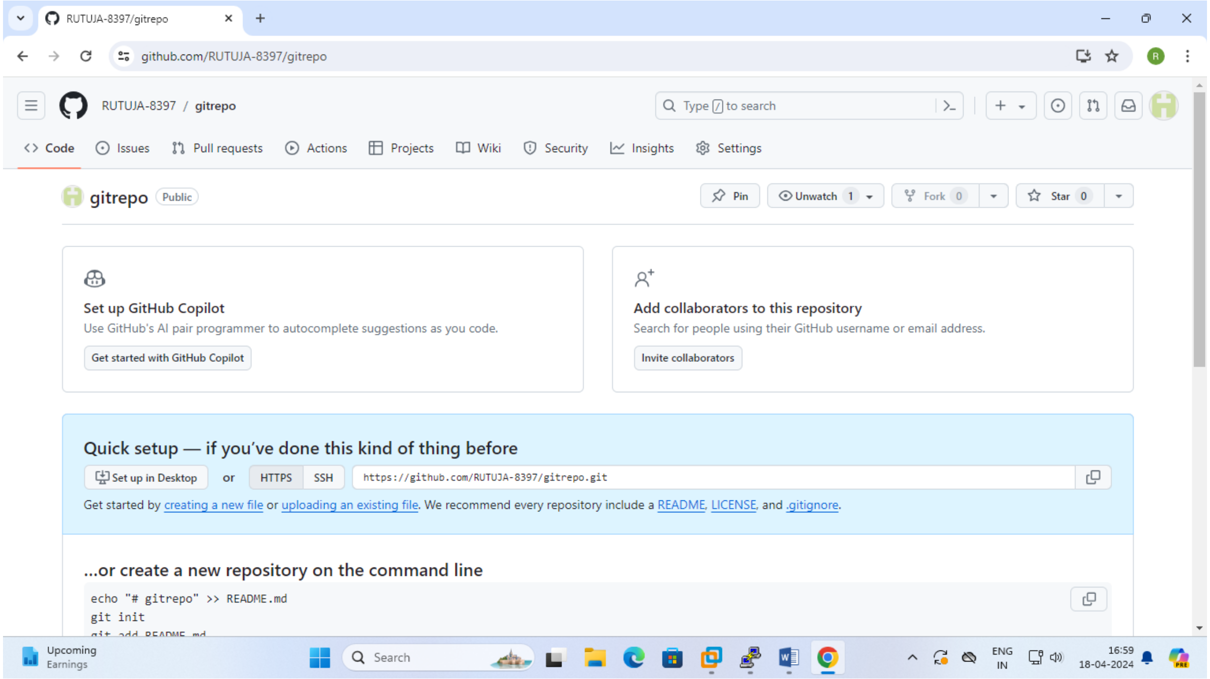
Description (optional)

● 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:

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



gitrepo Public

Set up GitHub Copilot

Use GitHub's AI pair programmer to autocomplete suggestions as you code.

Get started with GitHub Copilot

Add collaborators to this repository

Search for people using their GitHub username or email address.

Invite collaborators

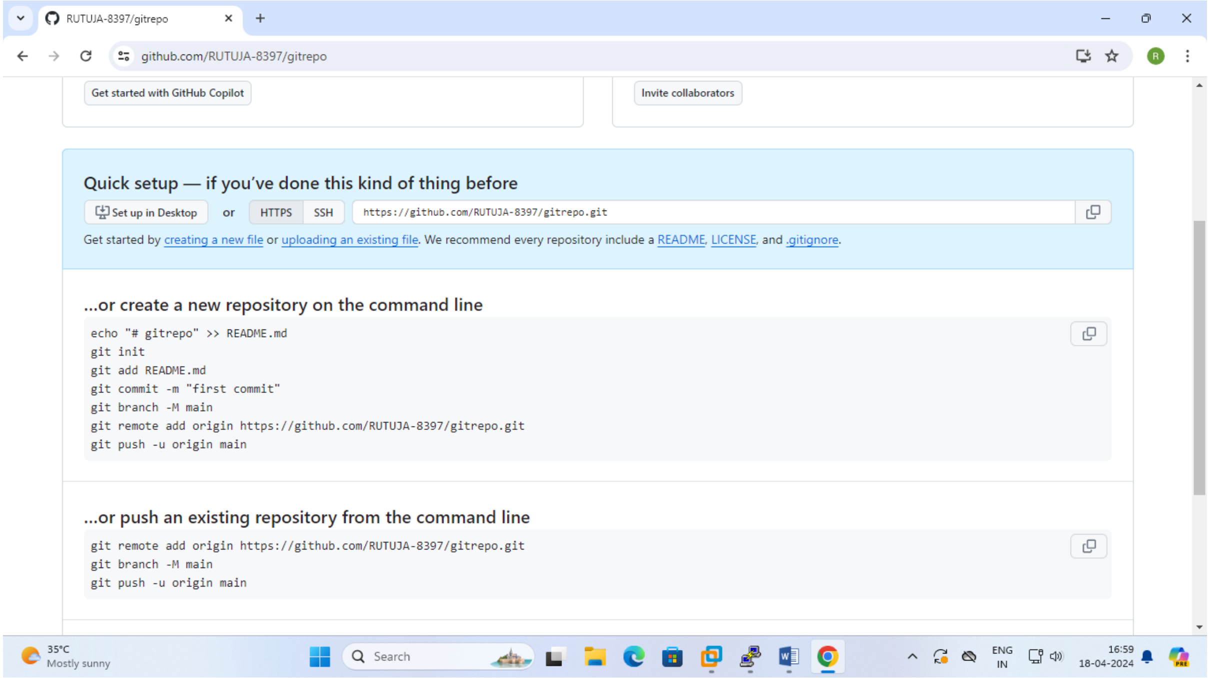
Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSH https://github.com/RUTUJA-8397/gitrepo.git

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 "# gitrepo" >> README.md
git init
git add README.md
```



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

https://github.com/RUTUJA-8397/gitrepo.git

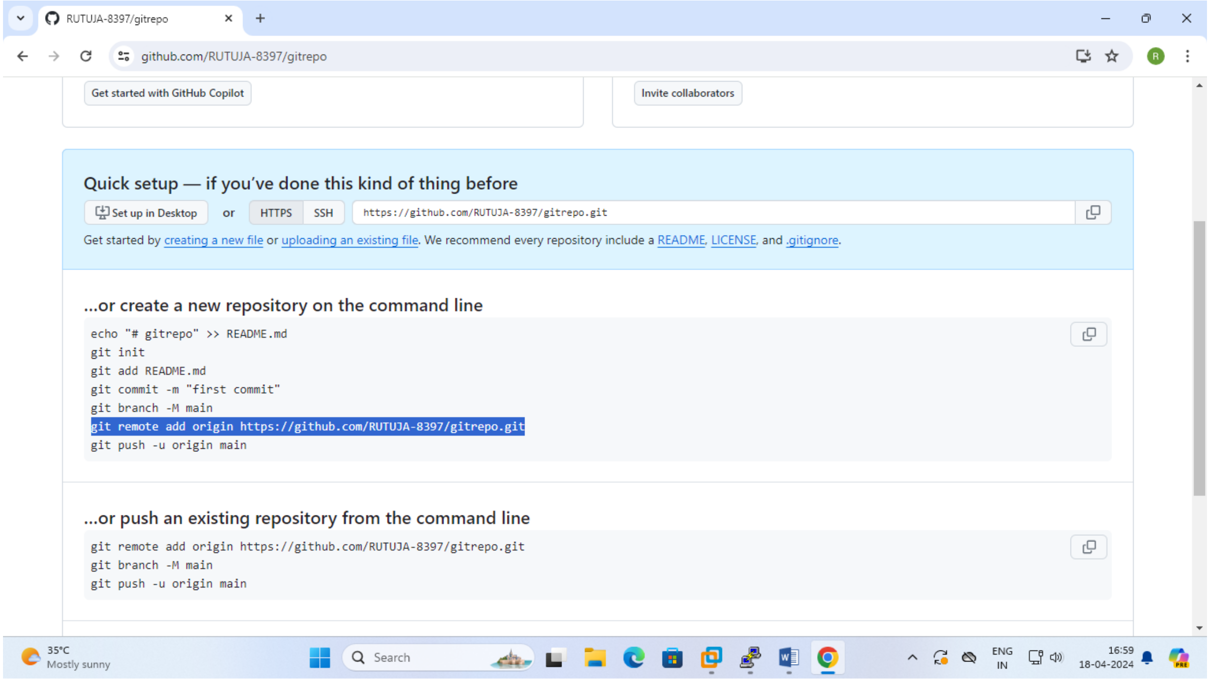
Get started by creating a new file or uploading an existing file. We recommend every repository include a README, LICENSE, and .gitignore.

…or create a new repository on the command line

```
echo "# gitrepo" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/RUTUJA-8397/gitrepo.git
git push -u origin main
```

…or push an existing repository from the command line

```
git remote add origin https://github.com/RUTUJA-8397/gitrepo.git
git branch -M main
git push -u origin main
```


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

https://github.com/RUTUJA-8397/gitrepo.git

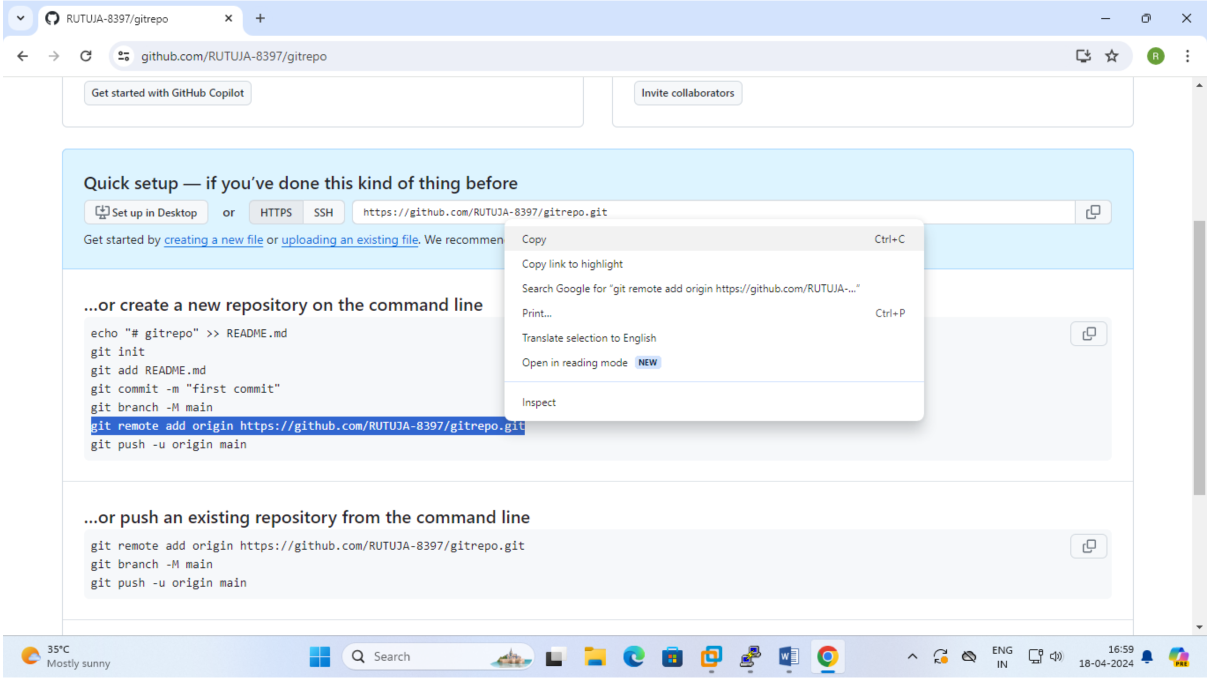
Get started by creating a new file or uploading an existing file. We recommend every repository include a README, LICENSE, and .gitignore.

…or create a new repository on the command line

echo "# gitrepo" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/RUTUJA-8397/gitrepo.git
git push -u origin main

…or push an existing repository from the command line

git remote add origin https://github.com/RUTUJA-8397/gitrepo.git
git branch -M main
git push -u origin main



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

Get started by creating a new file or uploading an existing file. We recommen

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

```
echo "# gitrepo" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/RUTUJA-8397/gitrepo.git
git push -u origin main
```

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

```
git remote add origin https://github.com/RUTUJA-8397/gitrepo.git
git branch -M main
git push -u origin main
```

RUTUJA-8397/gitrepo
github.com/RUTUJA-8397/gitrepo
Get started with GitHub Copilot
Invite collaborators
Set up in Desktop
or
HTTPS
SSH
https://github.com/RUTUJA-8397/gitrepo.git
Copy Ctrl+C
Copy link to highlight
Search Google for "git remote add origin https://github.com/RUTUJA-..."
Print... Ctrl+P
Translate selection to English
Open in reading mode NEW
Inspect
35°C
Mostly sunny
Search
ENG
IN
16:59
18-04-2024

#git remote add origin <path of that repository/URL>

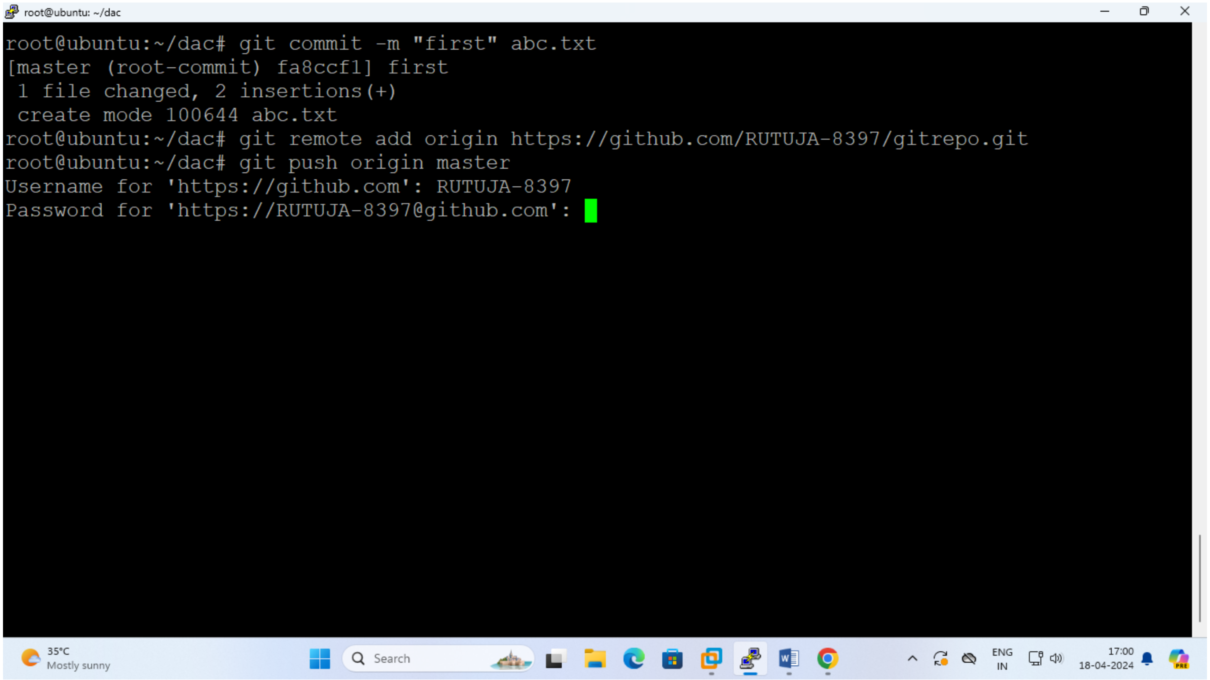
#git remote add [alias] [url]

add a git URL as an alias

#git push ……………………….Push local changes to the remote

Username →github username

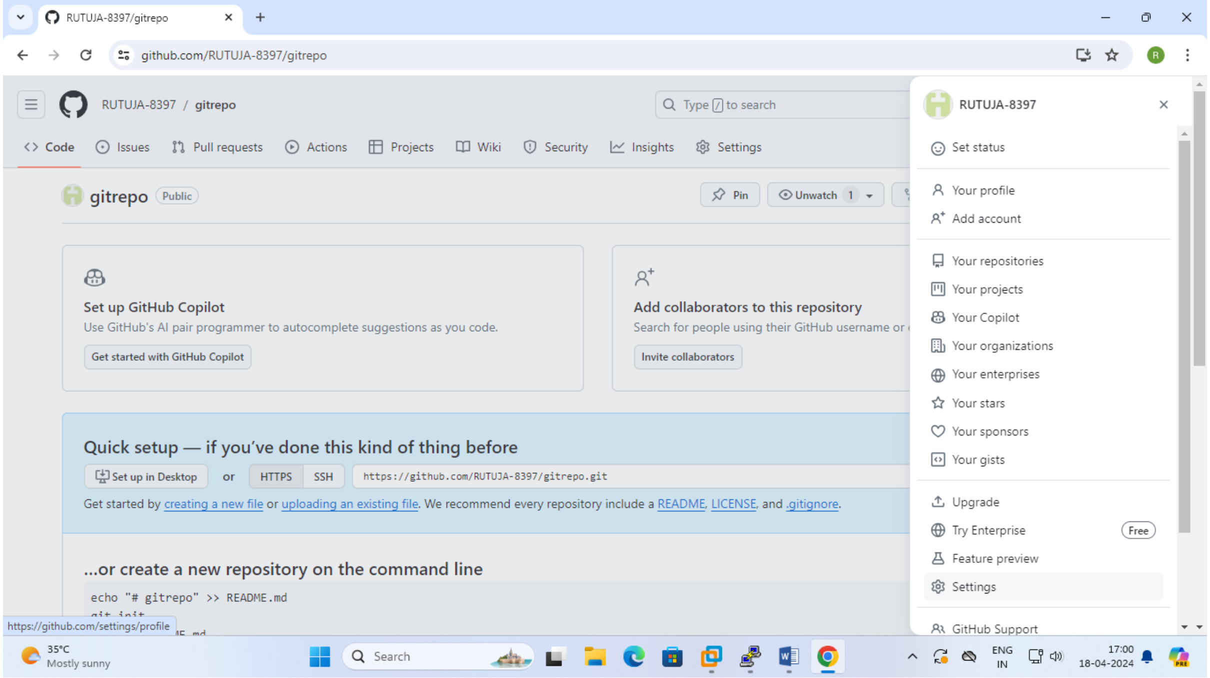
Password→create one token on github and paste it here.



```
root@ubuntu:~/dac# git commit -m "first" abc.txt
[master (root-commit) fa8ccf1] first
 1 file changed, 2 insertions(+)
 create mode 100644 abc.txt
root@ubuntu:~/dac# git remote add origin https://github.com/RUTUJA-8397/gitrepo.git
root@ubuntu:~/dac# git push origin master
Username for 'https://github.com': RUTUJA-8397
Password for 'https://RUTUJA-8397@github.com': 
```

How to create token:

Go to github setting→click on settings



Set up GitHub Copilot

Use GitHub's AI pair programmer to autocomplete suggestions as you code.

Add collaborators to this repository

Search for people using their GitHub username or

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

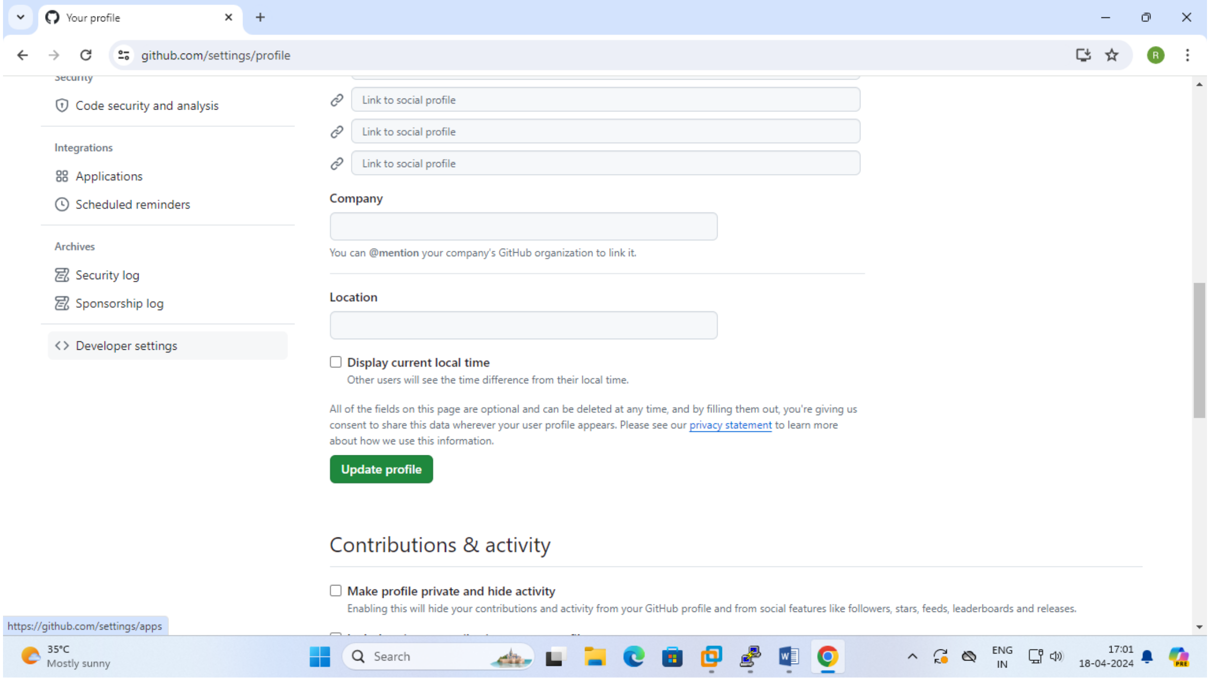
https://github.com/RUTUJA-8397/gitrepo.git

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 "# gitrepo" >> README.md
git init
```

Click on Developers settings



Company

You can @mention your company's GitHub organization to link it.

Location

□ Display current local time

Other users will see the time difference from their local time.

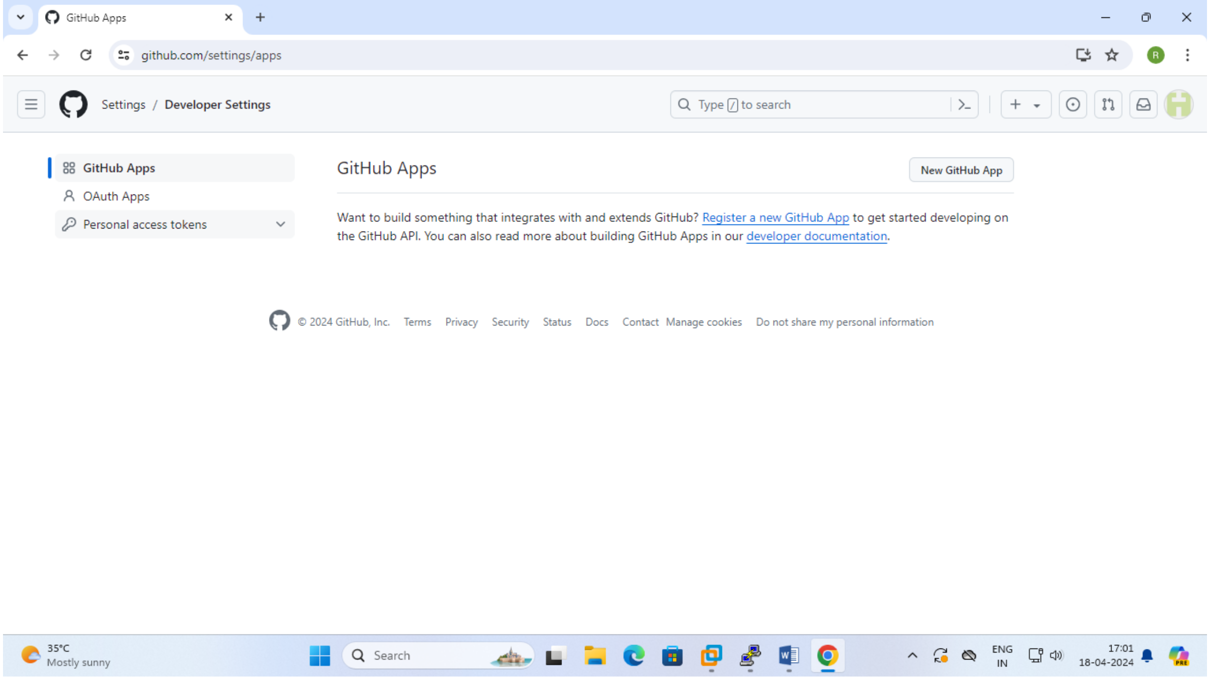
All of the fields on this page are optional and can be deleted at any time, and by filling them out, you're giving us consent to share this data wherever your user profile appears. Please see our privacy statement to learn more about how we use this information.

Contributions & activity

□ Make profile private and hide activity

Enabling this will hide your contributions and activity from your GitHub profile and from social features like followers, stars, feeds, leaderboards and releases.

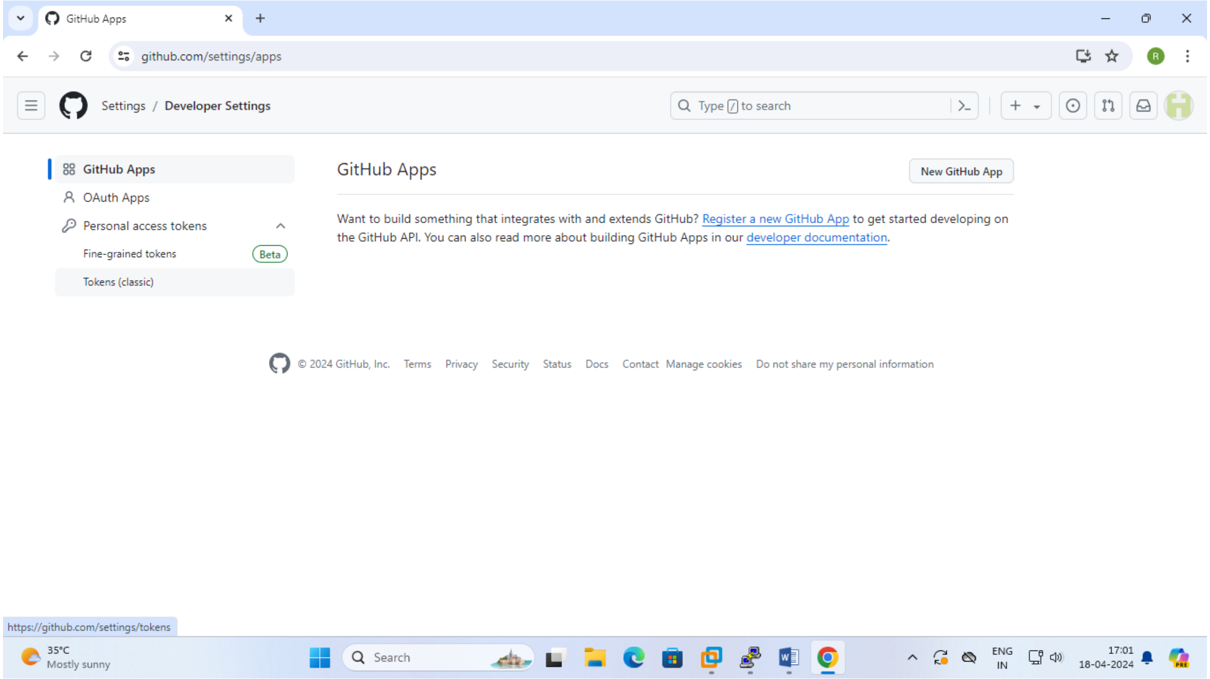
Click on personal access tokens



Want to build something that integrates with and extends GitHub? Register a new GitHub App to get started developing on the GitHub API. You can also read more about building GitHub Apps in our developer documentation.

© 2024 GitHub, Inc. Terms Privacy Security Status Docs Contact Manage cookies Do not share my personal information
35°C
Mostly sunny
Search
ENG
IN
17:01
18-04-2024

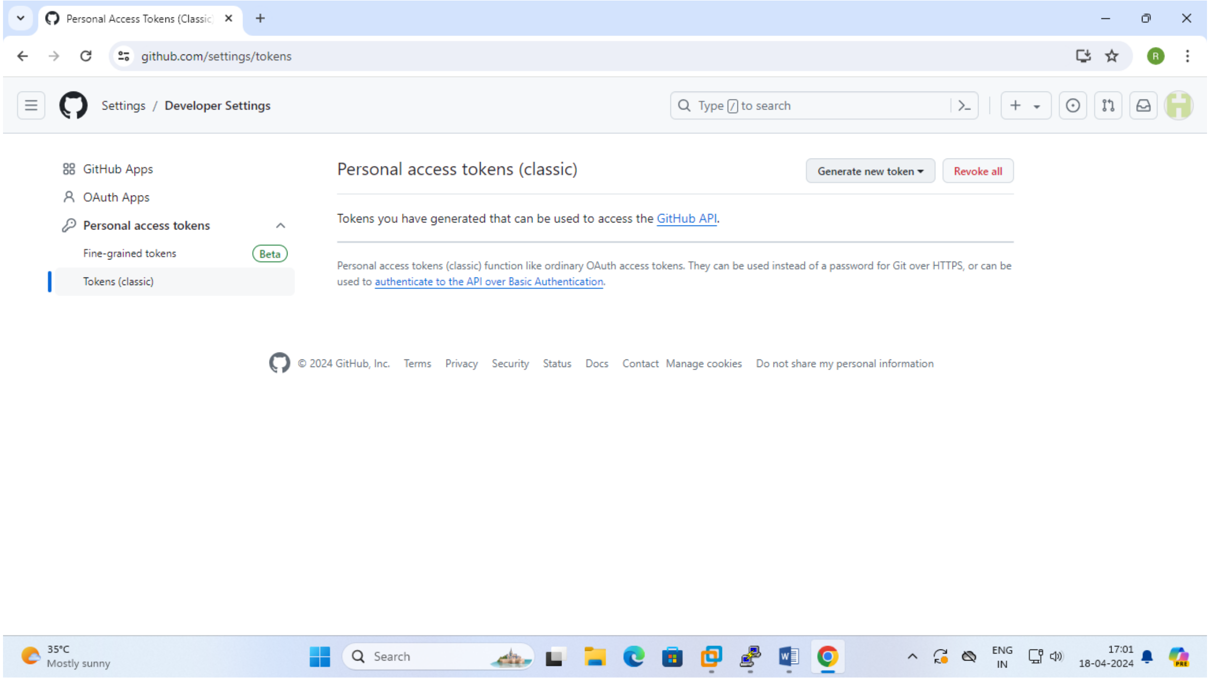
Select token (classic)



Want to build something that integrates with and extends GitHub? Register a new GitHub App to get started developing on the GitHub API. You can also read more about building GitHub Apps in our developer documentation.

© 2024 GitHub, Inc. Terms Privacy Security Status Docs Contact Manage cookies Do not share my personal information
https://github.com/settings/tokens
35°C
Mostly sunny
Search
ENG
IN
17:01
18-04-2024

Click on generate new token



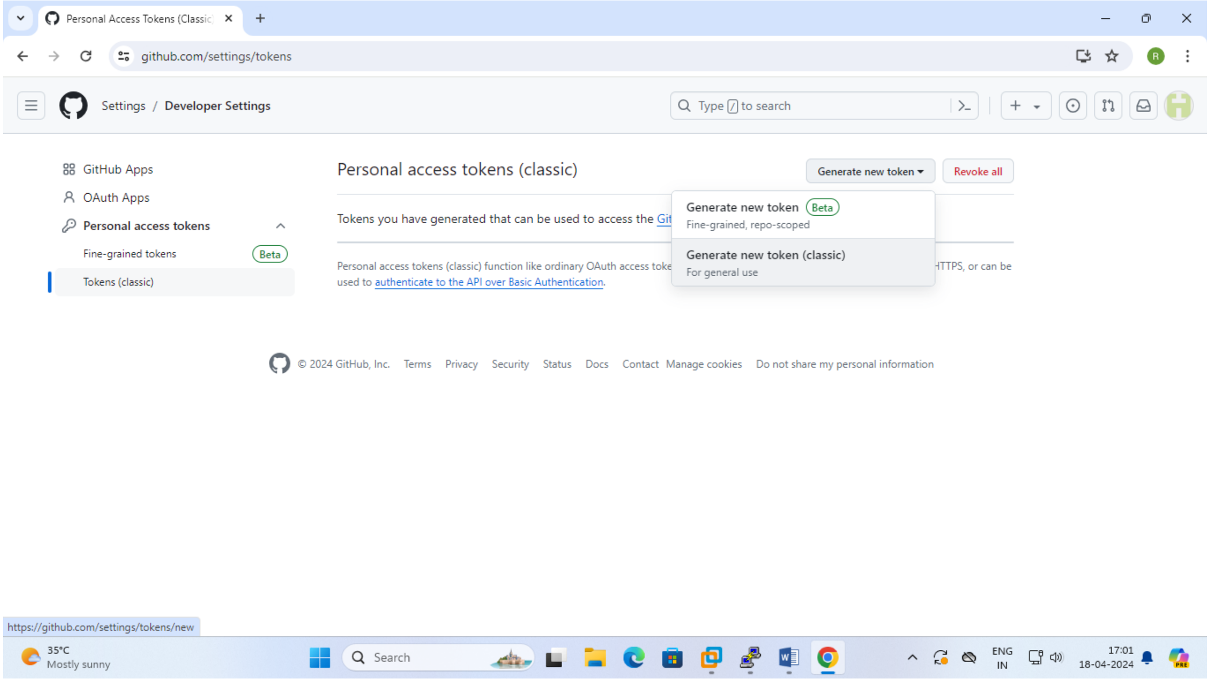
Personal access tokens (classic)

Tokens you have generated that can be used to access the GitHub API.

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to authenticate to the API over Basic Authentication.

© 2024 GitHub, Inc. Terms Privacy Security Status Docs Contact Manage cookies Do not share my personal information

Click on generate new token (classic)

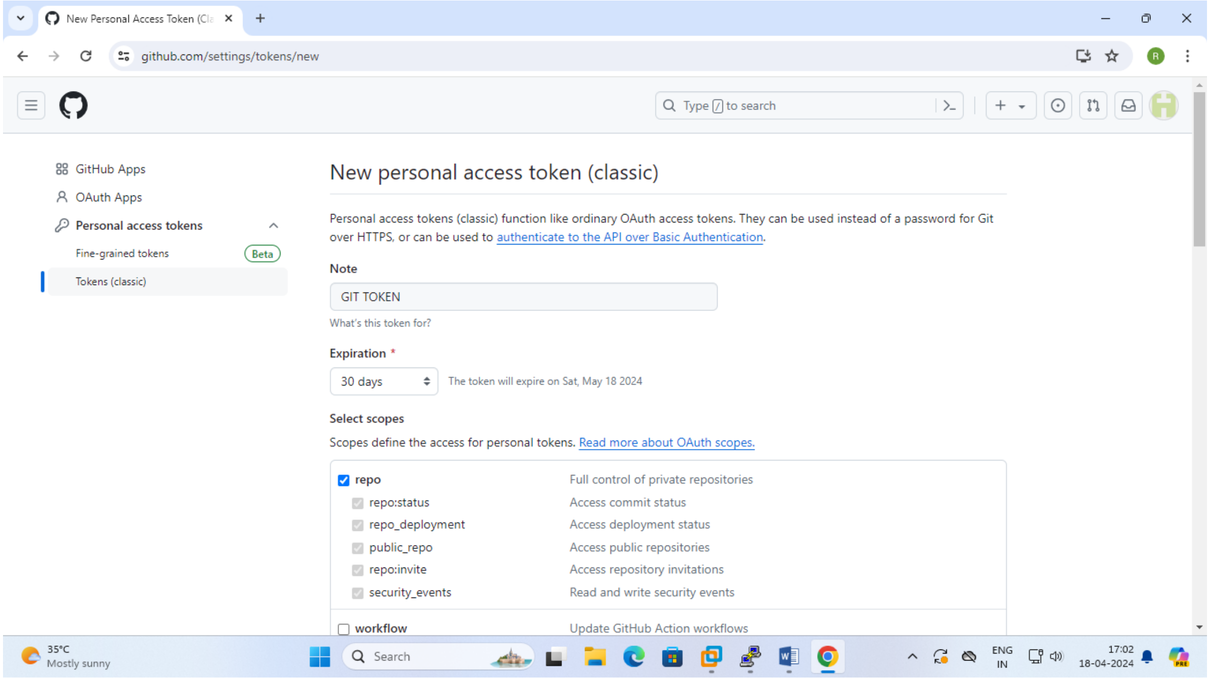


Personal access tokens (classic)

Tokens you have generated that can be used to access the Git

Personal access tokens (classic) function like ordinary OAuth access toke HTTPS, or can be used to authenticate to the API over Basic Authentication.

© 2024 GitHub, Inc. Terms Privacy Security Status Docs Contact Manage cookies Do not share my personal information



New personal access token (classic)

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to authenticate to the API over Basic Authentication.

Note

GIT TOKEN

What's this token for?

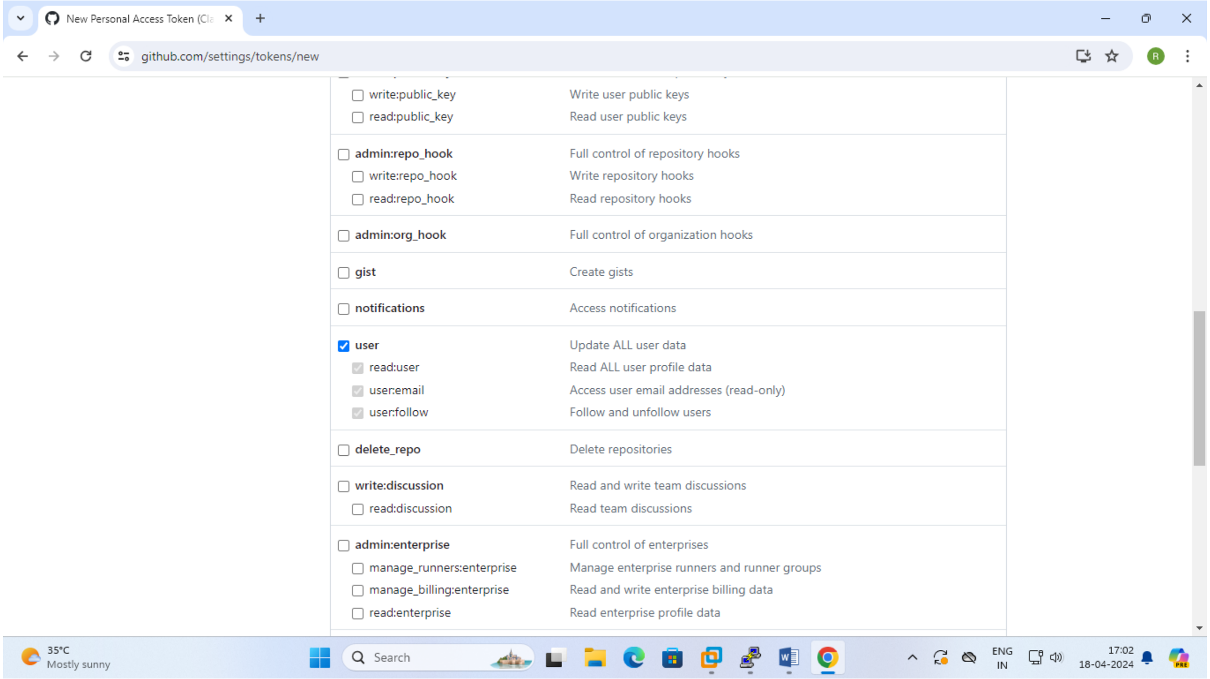
Expiration *

30 days — The token will expire on Sat, May 18 2024

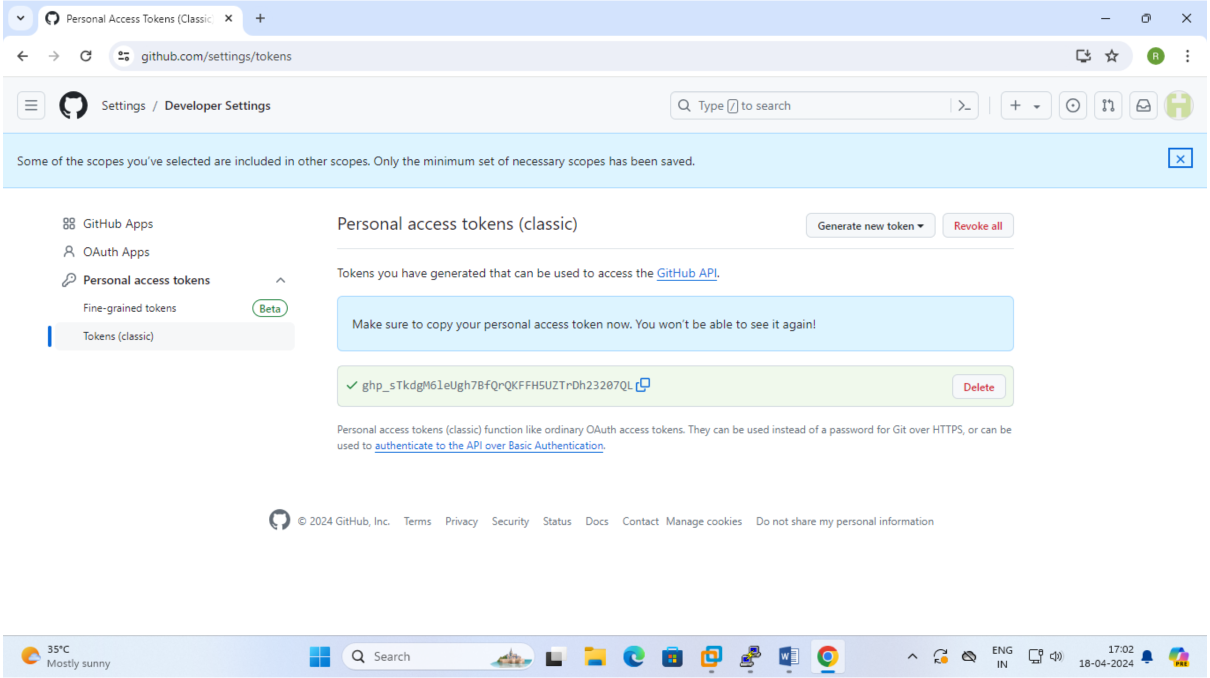
Select scopes

Scopes define the access for personal tokens. Read more about OAuth scopes.

☑ **repo**	Full control of private repositories
☑ repo:status	Access commit status
☑ repo_deployment	Access deployment status
☑ public_repo	Access public repositories
☑ repo:invite	Access repository invitations
☑ security_events	Read and write security events
□ **workflow**	Update GitHub Action workflows


New Personal Access Token (Cla
github.com/settings/tokens/new
35°C
Mostly sunny
Search
ENG
IN
17:02
18-04-2024

□ write:public_key	Write user public keys
□ read:public_key	Read user public keys
□ **admin:repo_hook**	Full control of repository hooks
□ write:repo_hook	Write repository hooks
□ read:repo_hook	Read repository hooks
□ **admin:org_hook**	Full control of organization hooks
□ **gist**	Create gists
□ **notifications**	Access notifications
☑ **user**	Update ALL user data
☑ read:user	Read ALL user profile data
☑ user:email	Access user email addresses (read-only)
☑ user:follow	Follow and unfollow users
□ **delete_repo**	Delete repositories
□ **write:discussion**	Read and write team discussions
□ read:discussion	Read team discussions
□ **admin:enterprise**	Full control of enterprises
□ manage_runners:enterprise	Manage enterprise runners and runner groups
□ manage_billing:enterprise	Read and write enterprise billing data
□ read:enterprise	Read enterprise profile data



Personal Access Tokens (Classic
github.com/settings/tokens
Settings / Developer Settings
Type / to search

Some of the scopes you've selected are included in other scopes. Only the minimum set of necessary scopes has been saved.

Personal access tokens (classic)

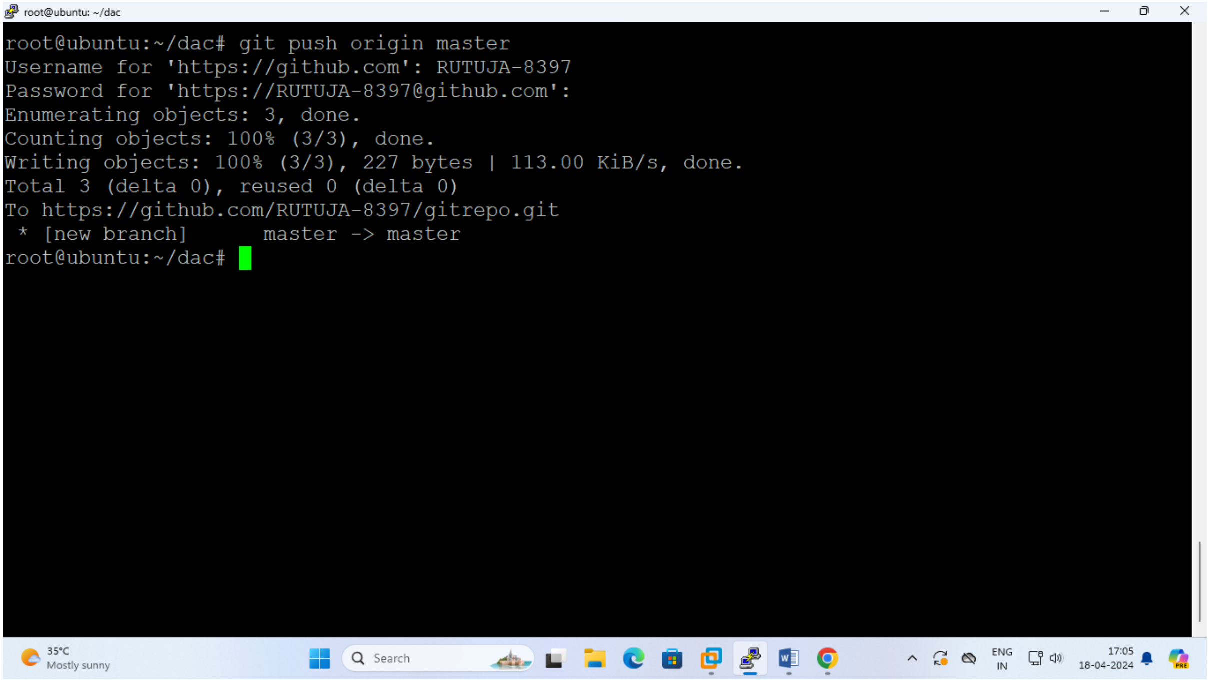
Tokens you have generated that can be used to access the GitHub API.

Make sure to copy your personal access token now. You won't be able to see it again!

✓ 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

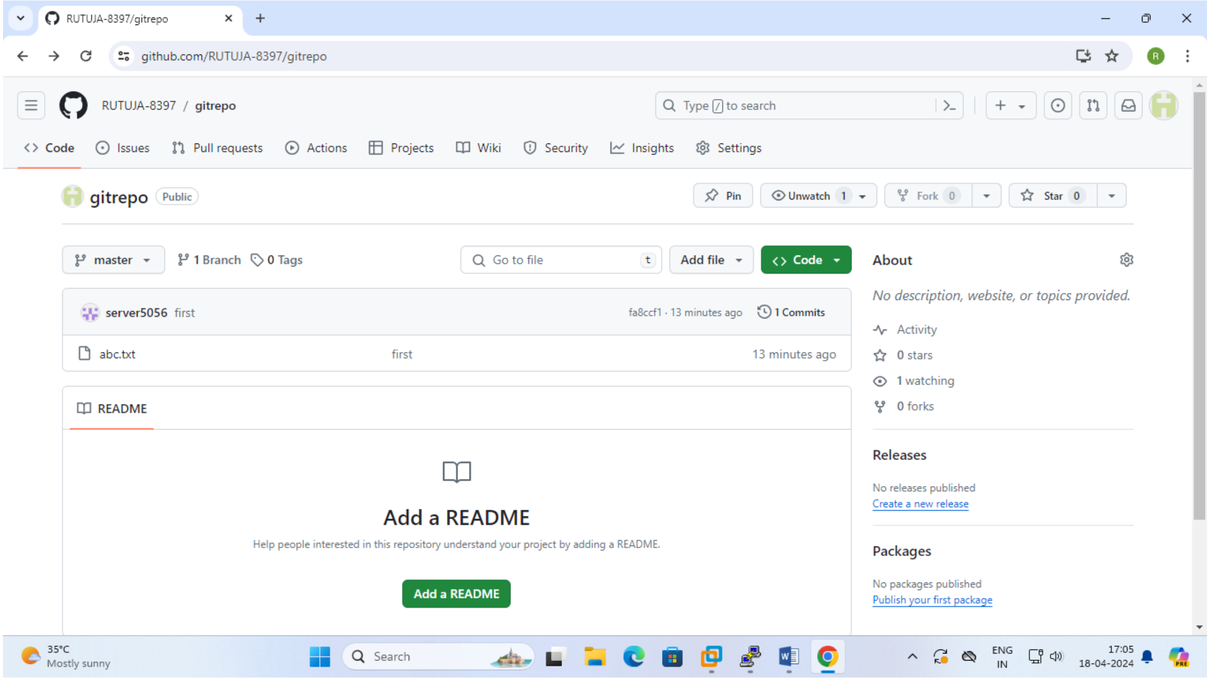
Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to authenticate to the API over Basic Authentication.

© 2024 GitHub, Inc. Terms Privacy Security Status Docs Contact Manage cookies Do not share my personal information
35°C
Mostly sunny
Search
ENG
IN
17:02
18-04-2024



```
root@ubuntu:~/dac# git push origin master
Username for 'https://github.com': RUTUJA-8397
Password for 'https://RUTUJA-8397@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 227 bytes | 113.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/RUTUJA-8397/gitrepo.git
 * [new branch]      master -> master
root@ubuntu:~/dac#
```

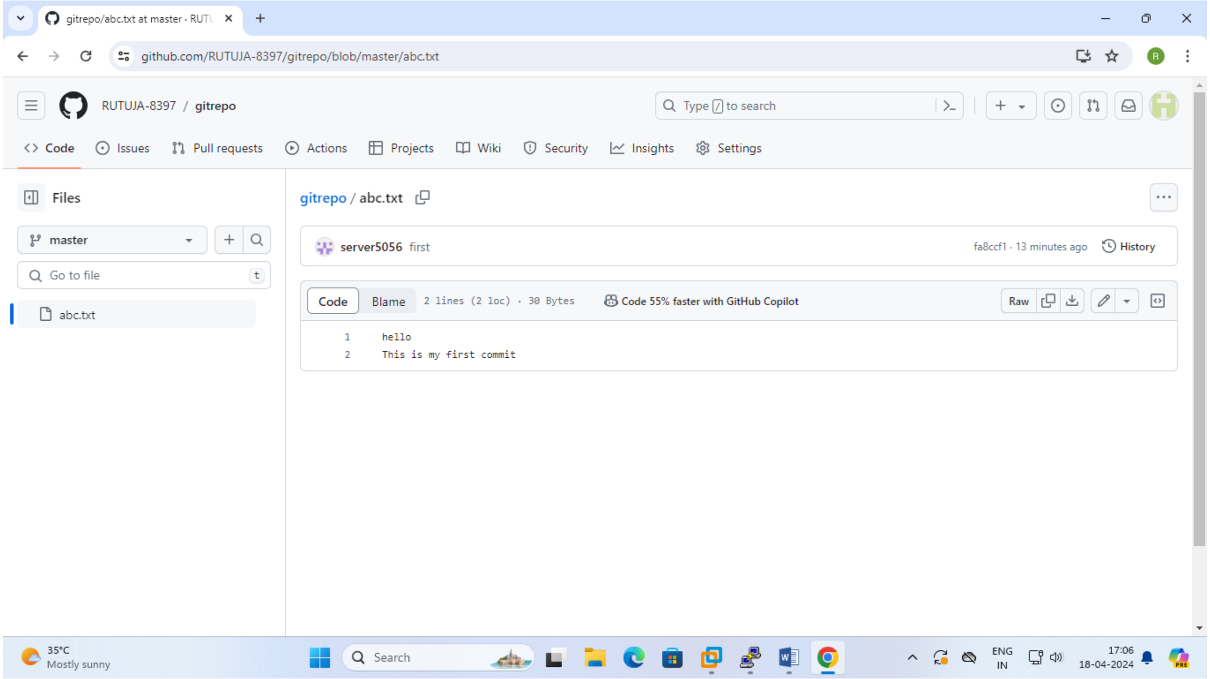
35°C
Mostly sunny
Search
ENG
IN
17:05
18-04-2024



server5056 first fa8ccf1 · 13 minutes ago 1 Commits

abc.txt first 13 minutes ago

Help people interested in this repository understand your project by adding a README.



server5056 first fa8ccf1 · 13 minutes ago

2 lines (2 loc) · 30 Bytes

```
hello
This is my first commit
```