

# Lesson 04 Demo 02 Creating a Pull Request in Git

**Objective:** To create a pull request in GitHub to facilitate code review

Tools required: GitHub

Prerequisite: None

### Steps to be followed:

1. Create a Fork

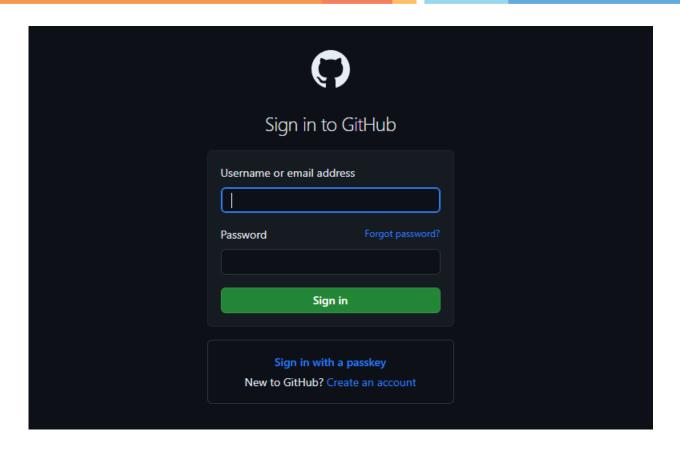
- 2. Clone your Fork
- 3. Sync fork with original repository
- 4. Generate personal access token
- 5. Push your changes
- 6. Create a pull request

# **Step 1: Create a Fork**

1.1 Log in to your GitHub account. Then, from your browser, navigate to the following repository:

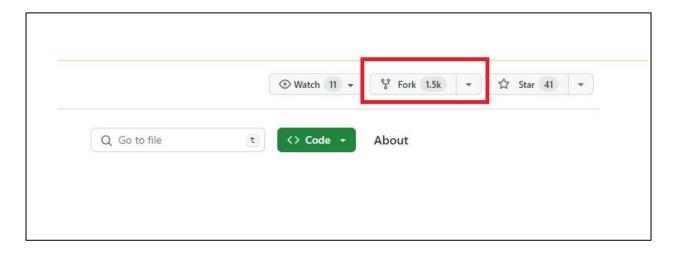
https://github.com/GithubResources1/Source-repository.git



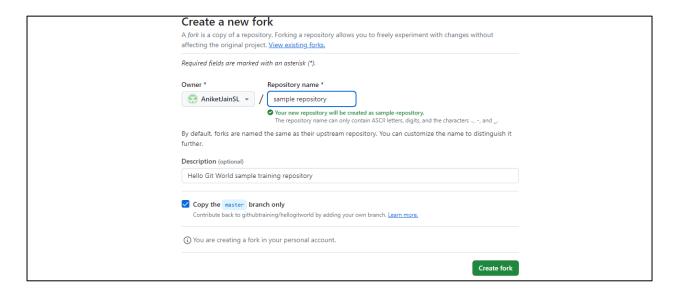




1.2 In the top-right corner of the page, click on the Fork button



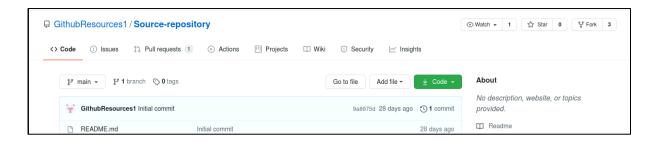
1.3 Create a new fork by writing **Repository name** as **sample repository** and click on **Create fork** 



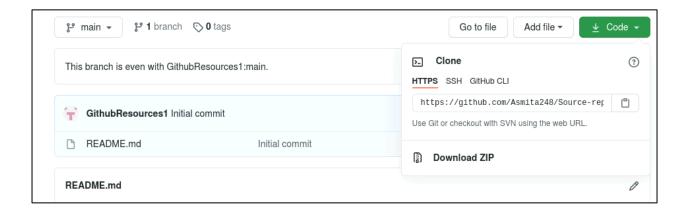


# **Step 2: Clone your Fork**

2.1 On GitHub, click on the Code button on your repository



2.2 Copy the URL from the HTTPS option



2.3 Type the following command on your terminal:

### git clone [the copied HTTPS URL]

**Note:** Replace [the copied HTTPS URL] in the above command with the URL you copied from the GitHub page.

Therefore, the clone command creates a local git repository from your remote fork on GitHub.



# Step 3: Sync fork with the original repository

3.1 Navigate to the directory where the fork has been cloned using the following command in the terminal:

cd Source-repository

3.2 Execute the following command to see the configured remote repository for your fork: git remote -v

```
origin https://github.com/GithubWorkstation/Source-repository.git (fetch) origin https://github.com/GithubWorkstation/Source-repository.git (push)
```

3.3 Use **git remote add upstream** command and paste the URL you copied in Step 2 as shown below:

git remote add upstream [the copied HTTPS URL]

3.4 Execute the following command to verify the new upstream repository you have specified for your fork:

git remote -v

```
git

git

@ip-172-31-71-23:~/Source-repository$ git remote add upstream https://github.com/GithubWorkstation/Source-repository.

git

@ip-172-31-71-23:~/Source-repository$ git remote -v

origin https://github.com/GithubWorkstation/Source-repository.git (fetch)

origin https://github.com/GithubWorkstation/Source-repository.git (push)

upstream https://github.com/GithubWorkstation/Source-repository.git (fetch)

upstream https://github.com/GithubWorkstation/Source-repository.git (push)

upstream https://github.com/GithubWorkstation/Source-repository.git (push)
```



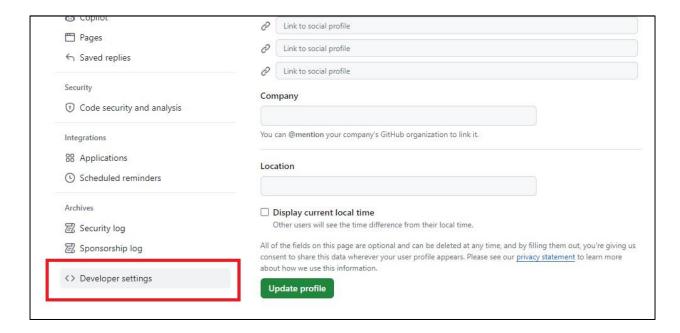
# Step 4: Generate personal access token

4.1 Go to **Settings** under your profile

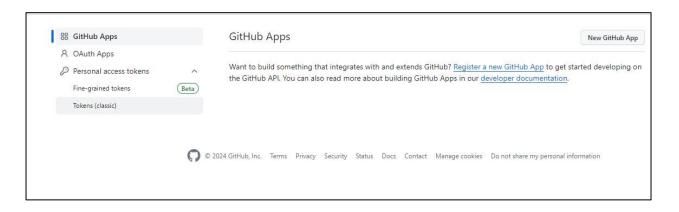
	☐ Your repositories
Create a new repository	111 Your projects
A repository contains all project files, including the revision history. Already have a project repository elsewhere?	Your organizations
Import a repository.	→ Your enterprises
Required fields are marked with an asterisk (*).	☆ Your stars
Owner * Repository name *	♥ Your sponsors
AniketJainSL + /	→ Your gists
Great repository names are short and memorable. Need inspiration? How about verbose-enigma ?	
Description (optional)	Try Enterprise
	☼ Copilot
	△ Feature preview
Public Anyone on the internet can see this repository. You choose who can commit.	鈞 Settings
O Private	☐ GitHub Docs
You choose who can see and commit to this repository.	A: GitHub Support
Initialize this repository with:	
Add a README file	Sign out



## 4.2 Click on **Developer settings**

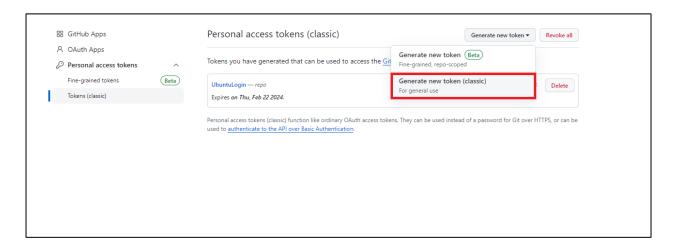


## 4.3 Inside Personal access tokens, click on Tokens (classic)

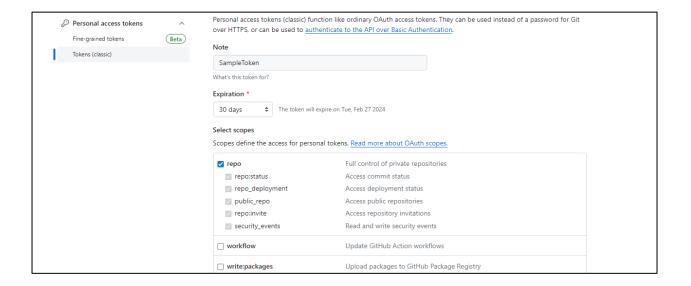




4.4 Inside Generate new token, click on Generate new token (classic)



4.5 Inside **Note**, write the token name as **SampleLogin**, click on **repo**, and then click on **Generate token** 





copilot   copilot
manage_billing:copilot    project
project   Full control of projects     admin:gpg_key   Full control of public user GPG keys     write:gpg_key   Write public user GPG keys     read:gpg_key   Read public user GPG keys     admin:ssh_signing_key   Full control of public user SSH signing keys     write:ssh_signing_key   Write public user SSH signing keys     read:ssh_signing_key   Write public user SSH signing keys     read:ssh_signing_key   Read public user SSH signing keys     read:ssh_signing_key   Read public user SSH signing keys
read:project Read access of projects  admin:gpg_key Full control of public user GPG keys write:gpg_key Write public user GPG keys read:gpg_key Read public user GPG keys  admin:ssh_signing_key Full control of public user SSH signing keys write:ssh_signing_key Write public user SSH signing keys read:ssh_signing_key Read public user SSH signing keys Read public user SSH signing keys
admin:gpg_key
write:gpg_key read:gpg_key Read public user GPG keys  admin:ssh_signing_key Full control of public user SSH signing keys write:ssh_signing_key read:ssh_signing_key Read public user SSH signing keys Read public user SSH signing keys
read:gpg_key  Read public user GPG keys  admin:ssh_signing_key Full control of public user SSH signing keys write:ssh_signing_key Write public user SSH signing keys read:ssh_signing_key Read public user SSH signing keys
□ admin:ssh_signing_key □ write:ssh_signing_key □ read:ssh_signing_key □ read:ssh_signing_key □ Full control of public user SSH signing keys □ read:ssh_signing_key Read public user SSH signing keys
write:ssh_signing_key     Write public user SSH signing keys       read:ssh_signing_key     Read public user SSH signing keys
read:ssh_signing_key Read public user SSH signing keys
Generate token Cancel

4.6 Copy the link for the password to push changes



# **Step 5: Push your changes**

5.1 Use the **git push** command to upload the changes to your remote for fork on GitHub and use the copied link for password

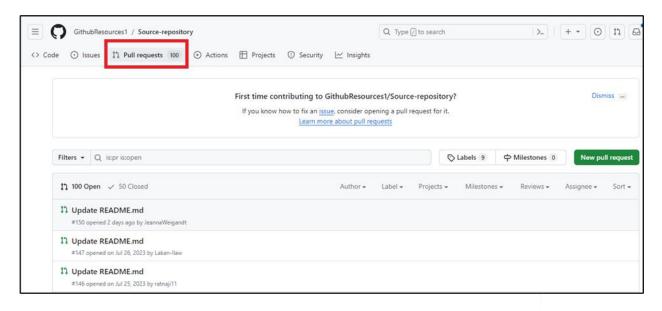
```
Username for 'https://github.com': GithubWorkstation
Password for 'https://GithubWorkstation@github.com':
Everything up-to-date

| Comparison of the compari
```



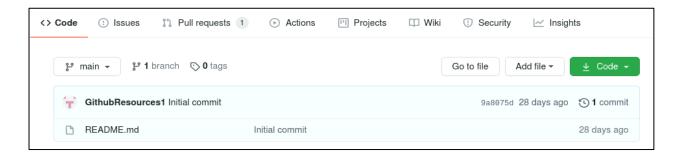
# Step 6: Create a pull request

6.1 On the GitHub page of your remote fork, click the Pull requests button



Wait for the owner to merge or comment on your changes

6.2 If the owner suggests some changes before merging, you can simply push these changes into your fork by repeating steps 3 and 4; the pull request is updated automatically.



By following these steps, you have successfully created a pull request, proposing changes to a repository and enabling collaborative code review and integration.