

## Lesson 01 Demo 02

### Creating a Pull Request in Git

**Objective:** To create a pull request in Git to propose changes, collaborate with team members, and merge code into the main repository

**Prerequisite:** GitHub Account

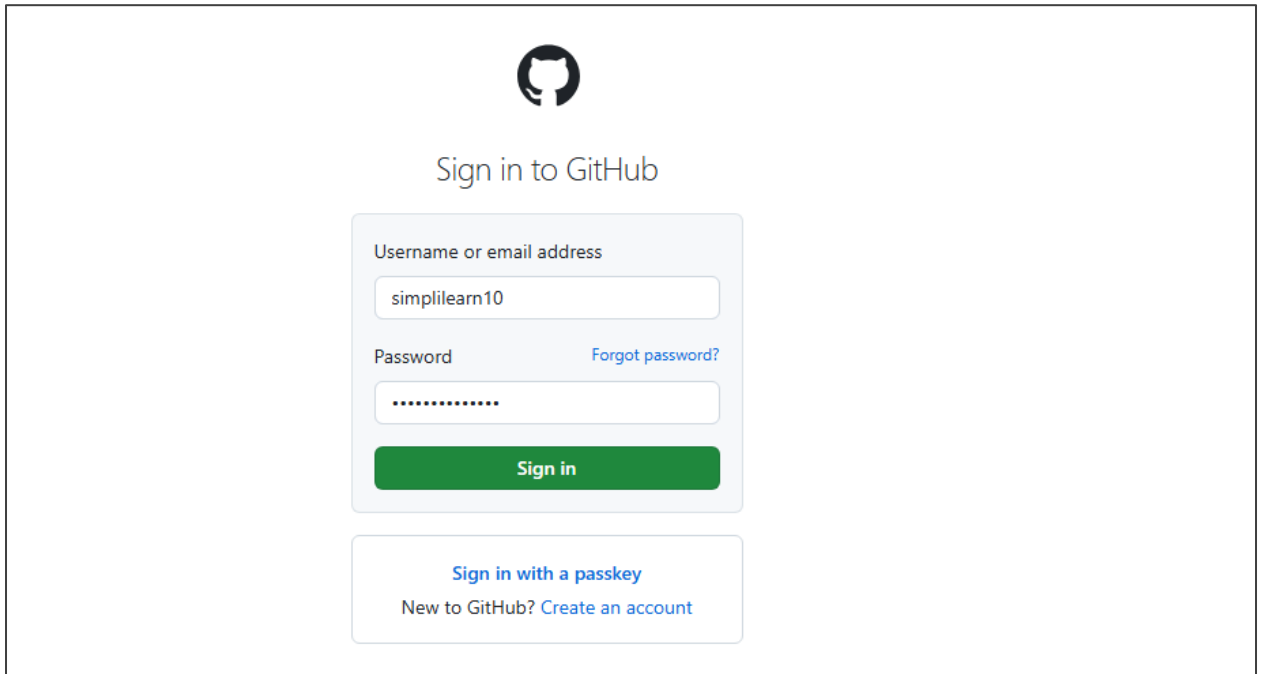
**Tools required:** Git

Steps to be followed:

1. Create a Fork
2. Clone your Fork
3. Sync the Fork with the original repository
4. Make changes in the file and create a commit message
5. Push your changes
6. Create a Pull request

## Step 1: Create a Fork

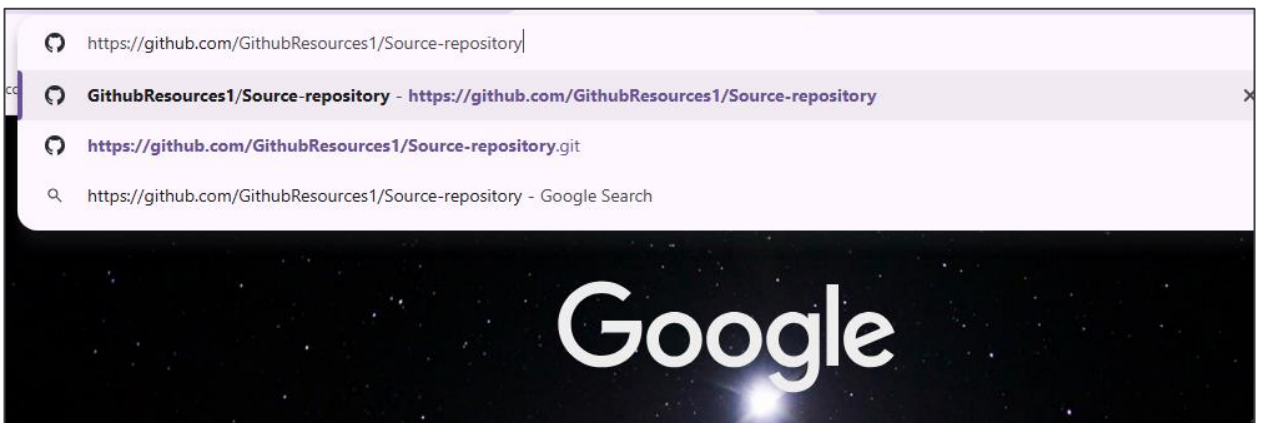
### 1.1 Log in to your GitHub account



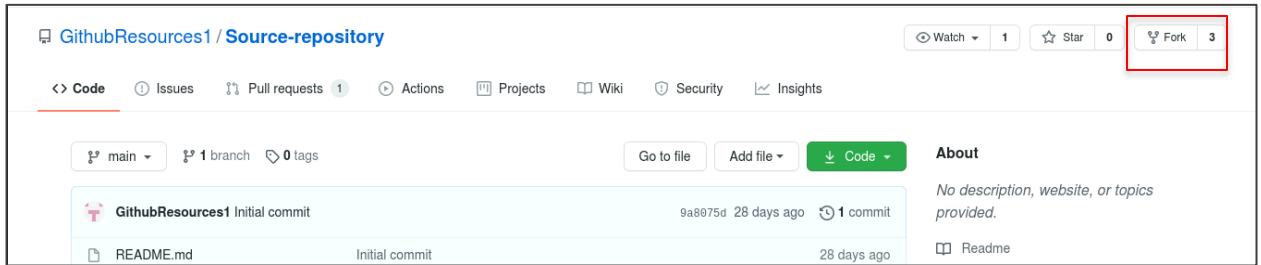
The image shows the GitHub sign-in page. At the top is the GitHub logo. Below it is the text "Sign in to GitHub". The sign-in form is centered and contains the following elements:

- A label "Username or email address" above a text input field containing "simplilearn10".
- A label "Password" above a password input field with masked characters "\*\*\*\*\*".
- A link "Forgot password?" to the right of the password field.
- A green "Sign in" button below the password field.
- A link "Sign in with a passkey" below the "Sign in" button.
- A link "New to GitHub? Create an account" at the bottom of the form.

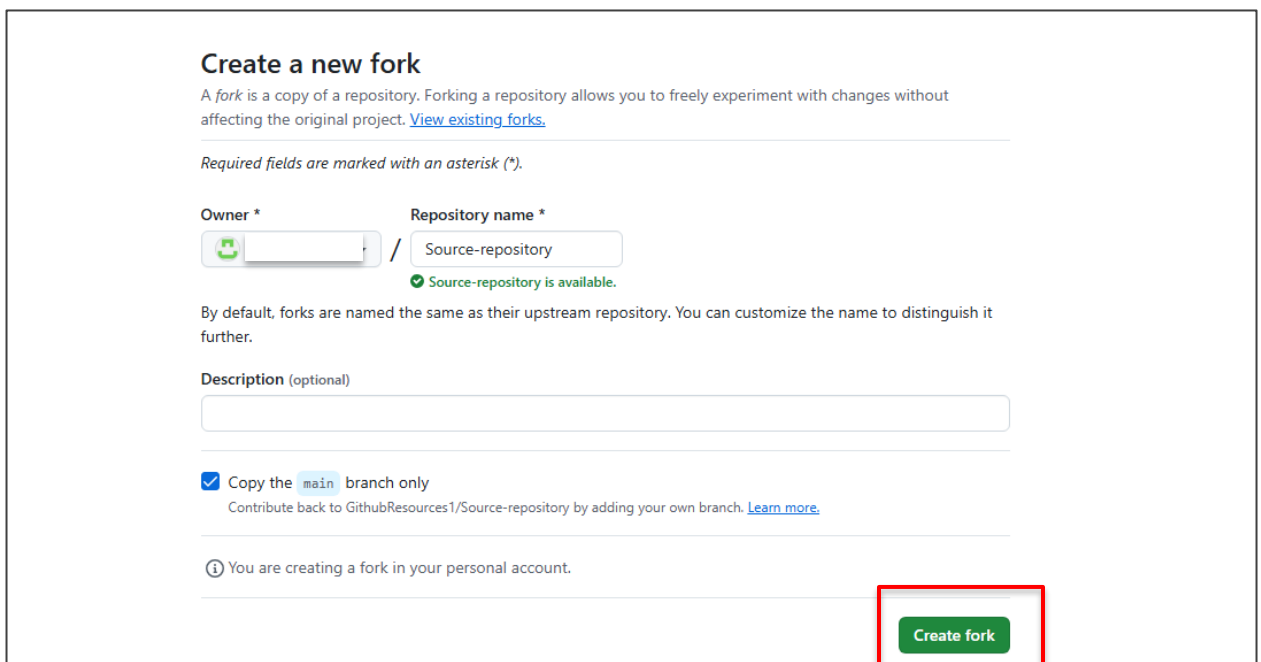
### 1.2 Open the browser and navigate to the following repository: **<https://github.com/GithubResources1/Source-repository.git>**



1.3 In the top-right corner of the page, click the **Fork** button

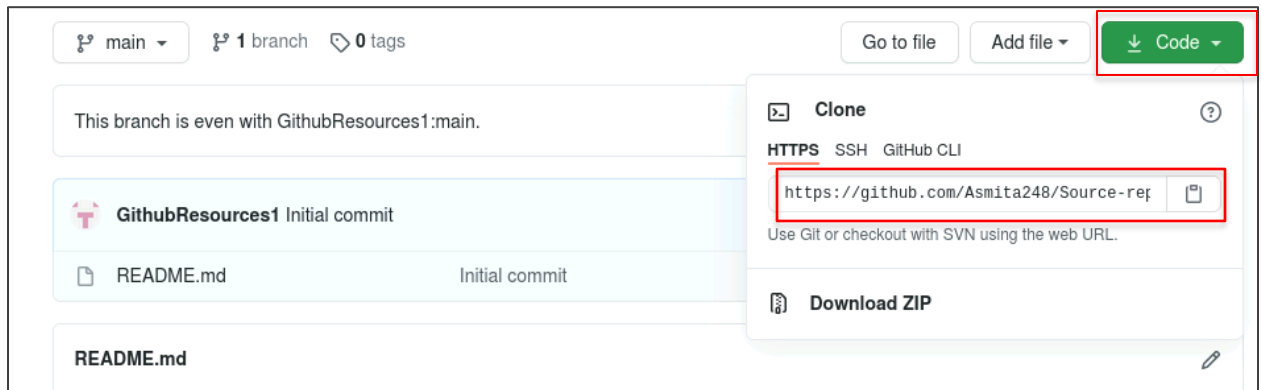


1.4 Click on **Create Fork**



## Step 2: Clone your Fork

2.1 On GitHub, click on the **Code** and copy the **HTTPS** URL



2.2 Open the terminal and execute the following command:

**git clone [the copied HTTPS URL]**

```
@ip-172-31-71-23:~$ git clone https://github.com/GithubWorkstation/Source-repository.git
Cloning into 'Source-repository'...
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.
@ip-172-31-71-23:~$
```

**Note:** Replace the URL with the copied URL from the repository. The **clone** command creates a local git repository from your remote Fork on GitHub.

### Step 3: Sync the Fork with the original repository

- 3.1 Execute the below commands to navigate to the directory where the Fork has been cloned and to see the configured remote repository for your Fork:

**cd Source-repository**

**git remote -v**

```
root@kali:~/Source-repository# cd Source-repository
root@kali:~/Source-repository# git remote -v
origin  https://github.com/GithubWorkstation/Source-repository.git (fetch)
origin  https://github.com/GithubWorkstation/Source-repository.git (push)
root@kali:~/Source-repository#
```

- 3.2 Execute the below command to add an upstream repository as a remote reference and to verify the new upstream repository you have specified for your Fork:

**git remote add upstream [the copied HTTPS URL]**

**git remote -v**

```
root@kali:~/Source-repository# git remote add upstream https://github.com/GithubWorkstation/Source-repository.git
root@kali:~/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)
root@kali:~/Source-repository#
```

## Step 4: Make changes in the file and create a commit message

3.1 Once the changes are made, enter the command given below:

**git commit -m "First commit"**

```
labuser@ubuntu2204:~/[REDACTED]$ git commit -m "First commit"
[main flccf73] First commit
Committer: Ubuntu <labuser@ubuntu2204.a3ggnbjtmgyuvhodvsz2b32brd.rx.internal.cl
oudapp.net>
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, 13 insertions(+)
create mode 100644 Phase1/Index.html
```

## Step 5: Push your changes

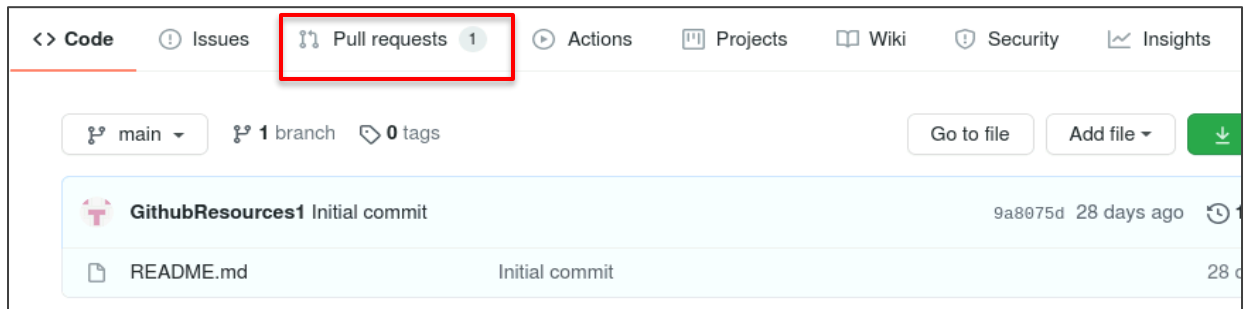
5.1 Use the git push command to upload your changes to your remote Fork on GitHub:

**git push**

```
[REDACTED]@ip-172-31-71-23:~/Source-repository$ git push
Username for 'https://github.com': GithubWorkstation
Password for 'https://GithubWorkstation@github.com':
Everything up-to-date
[REDACTED]@ip-172-31-71-23:~/Source-repository$
```

## Step 6: Create a Pull request

6.1 On the GitHub page of your remote Fork, click the **pull request** button



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

By following these steps, you have successfully created a pull request in Git to propose changes, collaborate with team members, and merge code into the main repository.