

Lesson 02 Demo 04

Create a Branch in Git

Objective: To create branches in Git

Tools required: Git



Steps to be followed:

1. Create a new repository
2. Clone the GitHub repository
3. List all the branches in your repository
4. Create a new branch
5. Verify the creation of the new branch
6. Rename an existing branch
7. Delete the branch
8. Verify the deletion of the branch

Step 1: Create a new GitHub repository


1.1 Open the browser in your lab, go to **github.com**, and log in to your account


1.2 Click on the + icon from the upper-right corner of the page, and select **New repository** from the drop-down menu and then create a new repository

Owner *  / **Repository name *** 

Great repository names are short and memorable. Need inspiration? How about **studious-adventure**?

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.](#)

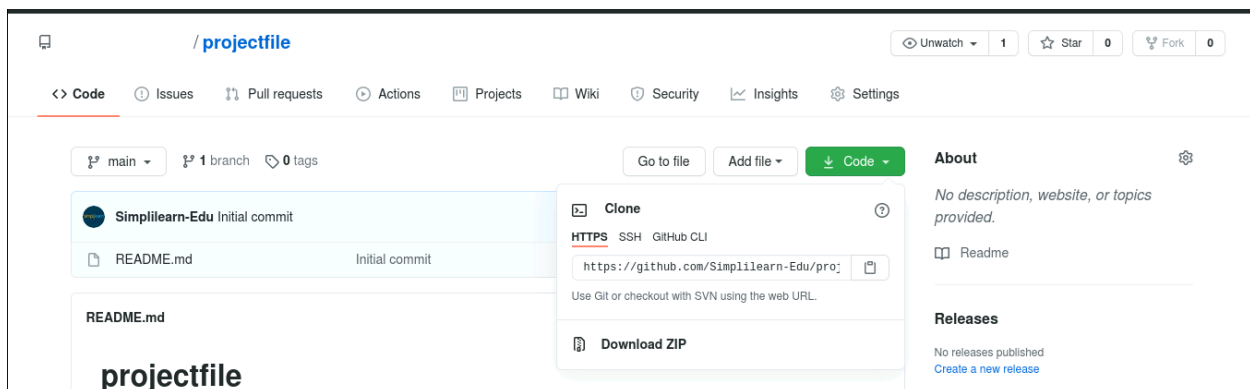
☐ **Add .gitignore**
Choose which files not to track from a list of templates. [Learn more.](#)

Step 2: Clone the GitHub repository

2.1 Open the browser in your lab, Go to **github.com**, and log in to your account

2.2 Open the **projectfile** repository, and click on the **Code** button

2.3 Click on the icon as shown in the following screenshot to copy the **URL** provided under **HTTPS**



2.4 Open the **Terminal** tab on your lab, and use the following command to clone the repository:

git clone URL

Note: Replace URL with the copied URL from the repository

```
root@ip-172-31-71-23:~$ git clone https://github.com/Simplilearn-Edu/projectfile.git
Cloning into 'projectfile'...
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.
root@ip-172-31-71-23:~$
```

Step 3: List all the branches in your repository

3.1 Open the Terminal in your lab, and navigate to the **projectfile** folder

```
cd projectfile
```

3.2 Use the following command to list all the branches in your repository:

git branch

```
root@ip-172-31-71-23:~$ cd projectfile
root@ip-172-31-71-23:~/projectfile$ git branch
* main
root@ip-172-31-71-23:~/projectfile$
```

Step 4: Create a new branch

4.1 Run the following command to create a new branch in your repository:

git branch new_branch

Step 5: Verify the creation of the new branch

git branch

```
root@ip-172-31-71-23:~/projectfile$ git branch new_branch
root@ip-172-31-71-23:~/projectfile$ git branch
* main
  new_branch
root@ip-172-31-71-23:~/projectfile$
```

Step 6: Rename an existing branch

6.1 Use the following command to rename the new_branch:

git branch -m new_branch1

6.2 Use the following command to list the branches to verify the new name of the branch:

git branch

```
@ip-172-31-71-23:~/projectfile$ git branch -m new_branch1
@ip-172-31-71-23:~/projectfile$ git branch
  new_branch
* new_branch1
@ip-172-31-71-23:~/projectfile$
```

Step 7: Delete the branch

7. 1 Use the following command to delete the newly created branch:

git branch -d new_branch

```
@ip-172-31-71-23:~/projectfile$ git branch -d new_branch
Deleted branch new_branch (was d77a2b5).
@ip-172-31-71-23:~/projectfile$
```

Step 8: Verify the deletion of the branch

git branch

```
@ip-172-31-71-23:~/projectfile$ git branch
* new_branch1
@ip-172-31-71-23:~/projectfile$
```