Lesson 01 Demo 04

Creating a Branch in Git

Objective: To create branches in Git and work on new features or fixes independently without affecting the main codebase

Prerequisite: GitHub Account

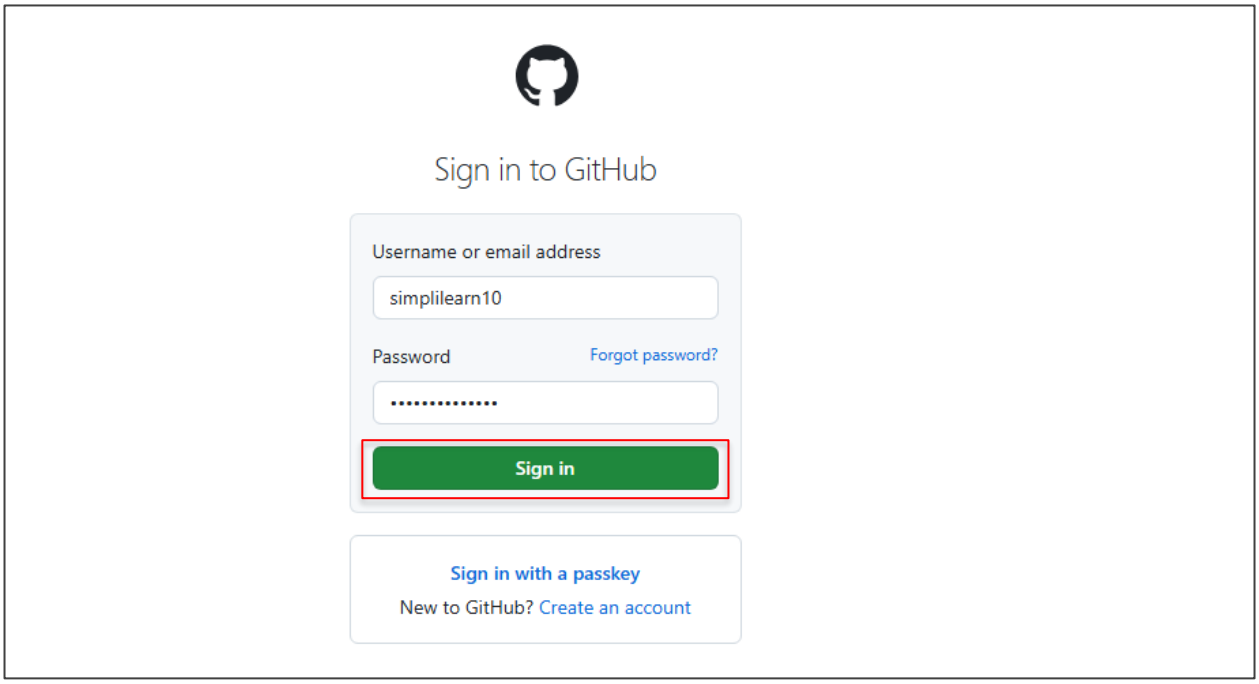
Tools required: Git

Steps to be followed:

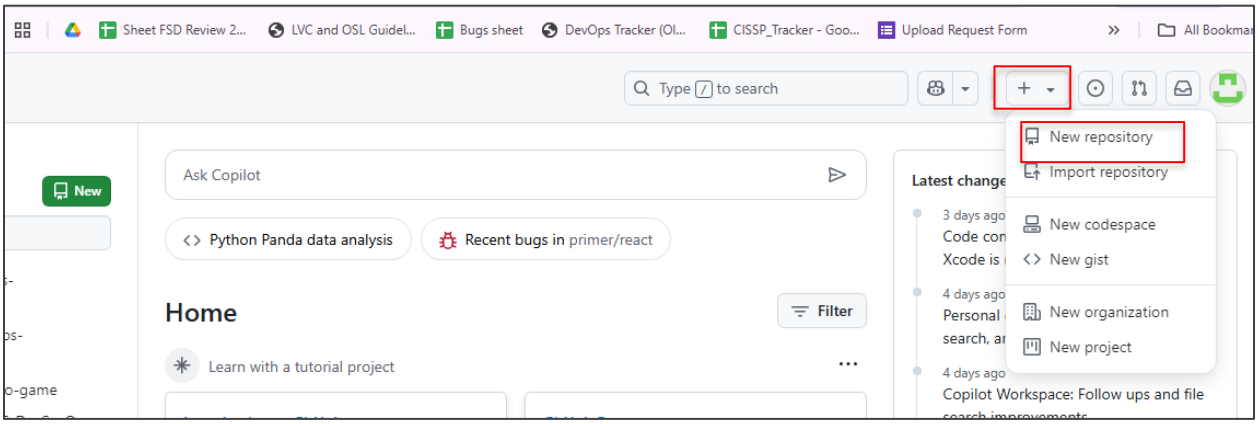
1. Create a new GitHub repository
2. Clone the GitHub repository
3. List all the branches in your repository
4. Create a new branch and verify it
5. Rename an existing branch
6. Delete the branch and verify it

Step 1: Create a new GitHub repository

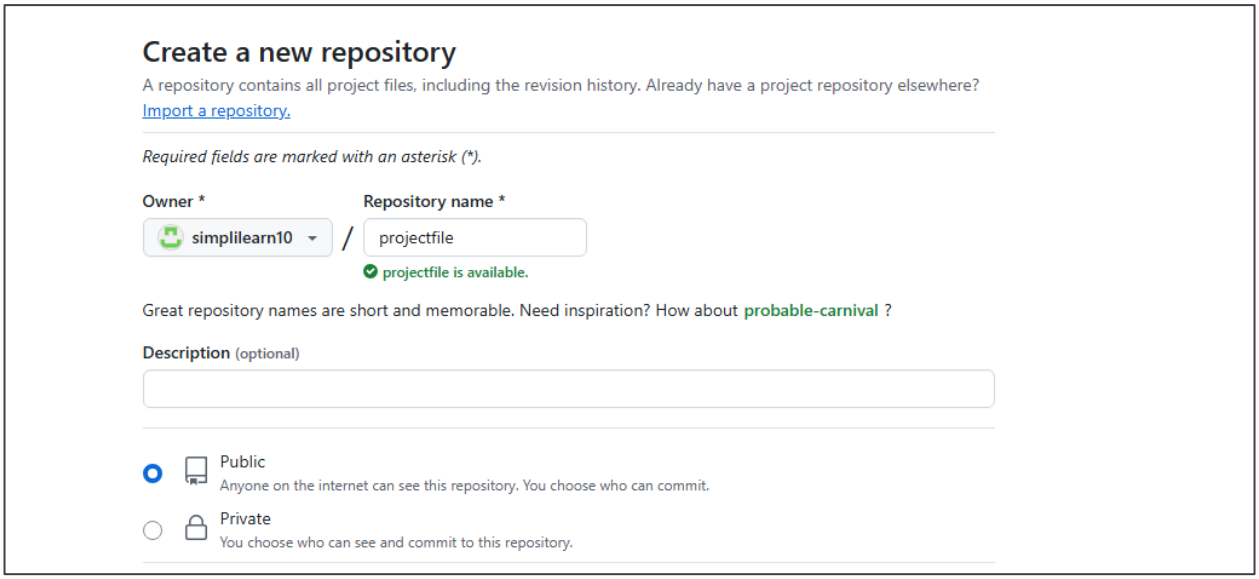
1.1 Open a browser in your lab, go to **github.com,** and log in to your account

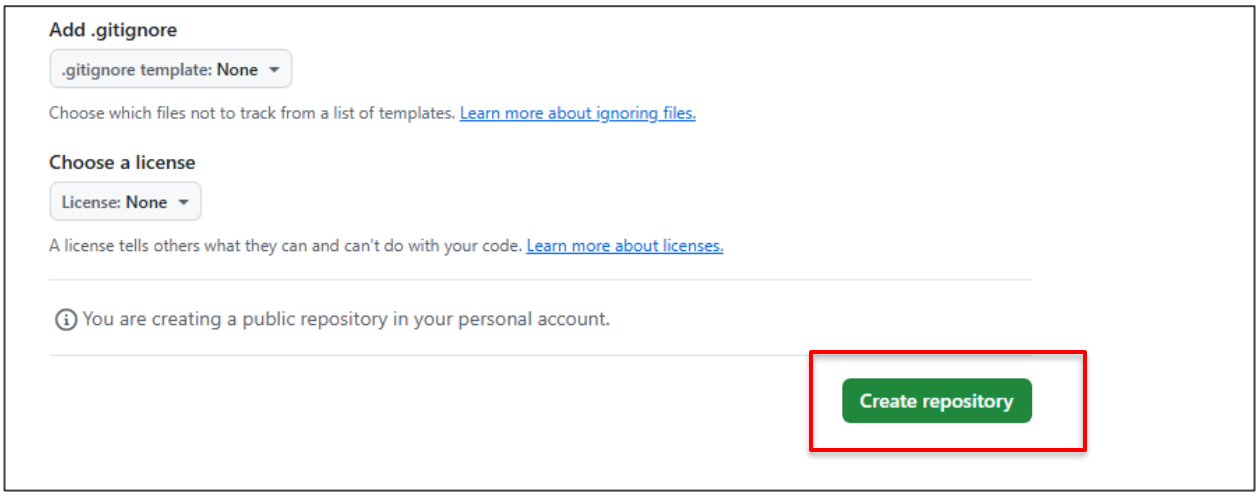


1.2 Click on the **+** icon from the upper-right corner of the page and select **New repository** from the drop-down menu



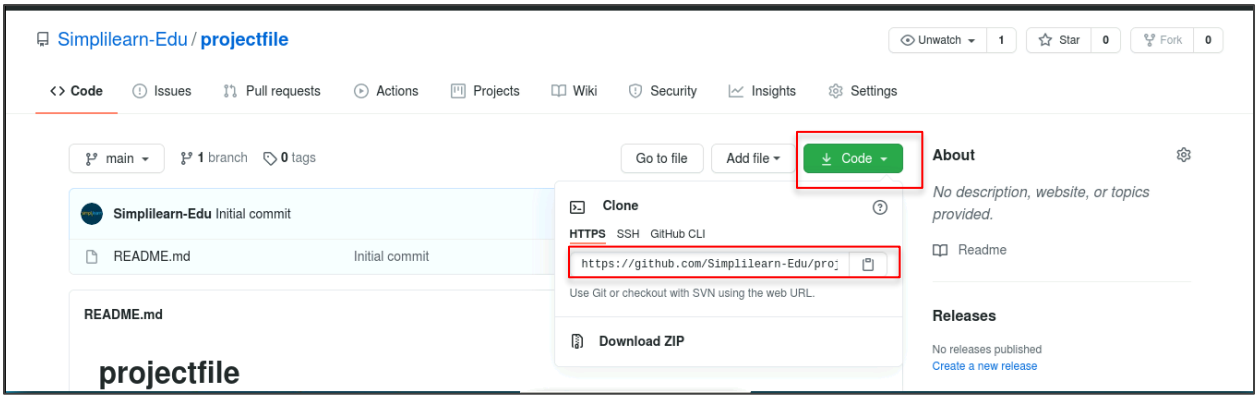
1.3 Enter the **Repository name**, choose **Public**, and click on the **Create repository**





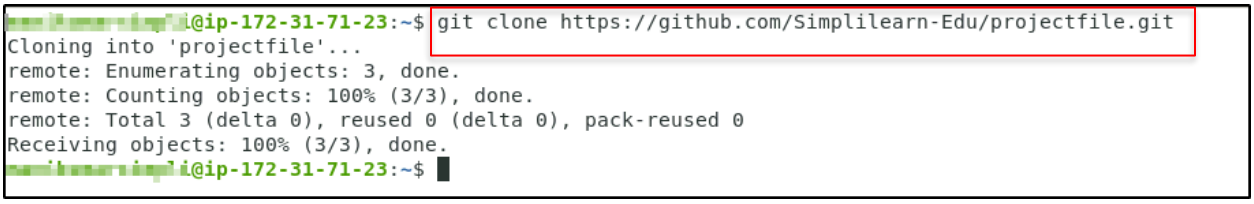
Step 2: Clone the GitHub repository

2.1 Open the **projectfile** repository, click on the **Code,** and copy the **HTTPS** URL



2.2 Open the terminal and run the following command to clone the repository:

git clone URL



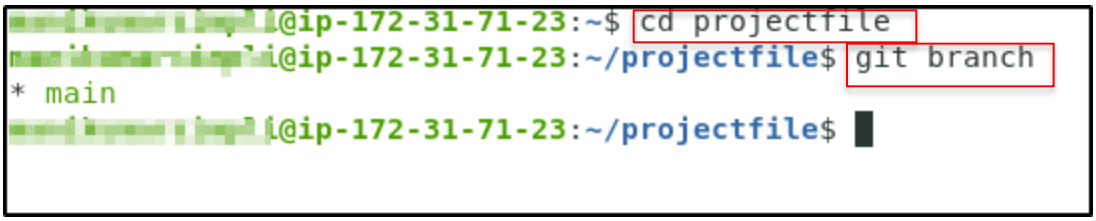
Note: Replace the URL with the copied URL from the repository

Step 3: List all the branches in your repository

2.1 Execute the below command to navigate to the **projectfile** folder and list all the branches in your repository:

cd projectfile

git branch



Step 4: Create a new branch and verify it

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

git branch new_branch

git branch

Step 5: Rename an existing branch

5.1 Use the following command to rename the new_branch and list the branches to verify the new name of the branch:

git branch -m new_branch1

git branch

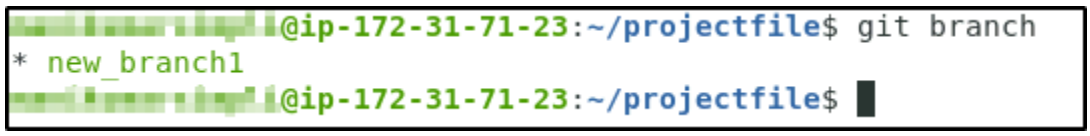
Step 6: Delete the branch and verify it

6.1 Use the following command to delete the newly created branch:

git branch -d new_branch

6.2 Use the following command to delete the newly created branch and verify:

git branch



By following these steps, you have successfully created branches in Git to work on new features or fixes independently without affecting the main codebase.