Lesson 4 Demo 2

Create and Clone a GitHub Repository

Objective: To create and clone a GitHub repository.

Prerequisite: Make sure you have a Github Account available. If not, please create one using the given link.

https://github.com/join?ref_cta=Sign+up&ref_loc=header+logged+out&ref_page=%2F&source=header-home

Tools required: Git

Steps to be followed:

1. Create a new Github repository

2. Edit the README file

3. Upload a file to the repository

4. Clone the Github repository

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.
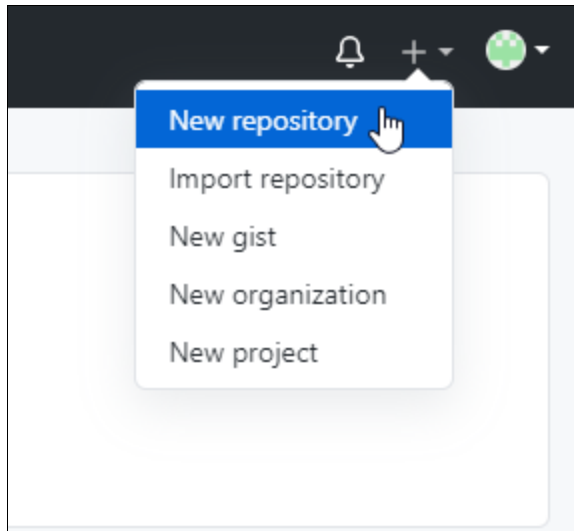
1.3 Enter *sample repository* in the **Repository field.** Entering a **Description** is optional.

1.4 Choose **Public** for the repository type.

1.5 Select **Initialize this repository with a README** to include a *README* file for the repository.

1.6 Click on the **Create Repository** button.

Create a new repository

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

Owner *   Repository name *

🔲 ●●●●●●●●●●● ▾ /   sample repository   ✓

Great repository names are short an| Your new repository will be created as **sample-repository**. |s-doodle?

Description (optional)

This is a sample repository.   I

● 🔖 **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.
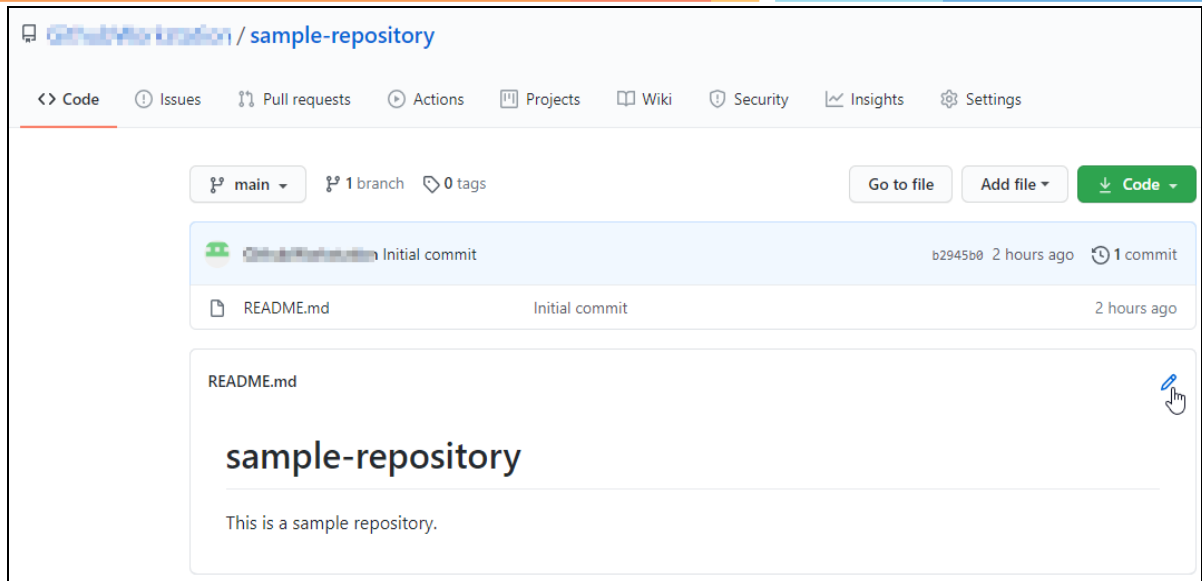
☐ **Choose a license**
     A license tells others what they can and can't do with your code. Learn more.

This will set ⑂ main as the default branch. Change the default name in your settings.

Create repository

Step 2: Edit the *README* file

2.1 Click on the **Edit** button to edit the *README* file.

2.2 Add some text in the README file (Example: *We have edited the README file.*)

2.3 Type a commit message to describe the changes made in the file and then click on **Commit changes**
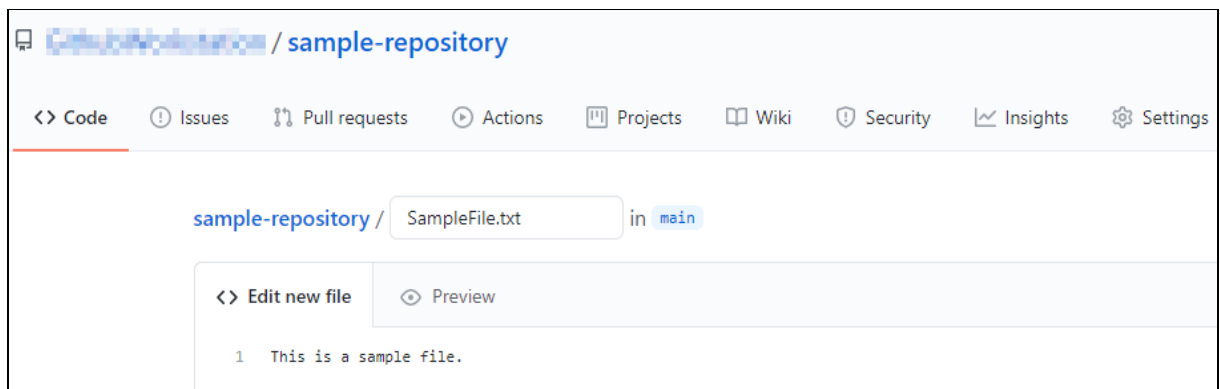
Step 3: Upload a file to the repository

3.1 Go to your Github repository and to add a file to the repository, click on **Add file**, and then select **Create new file**
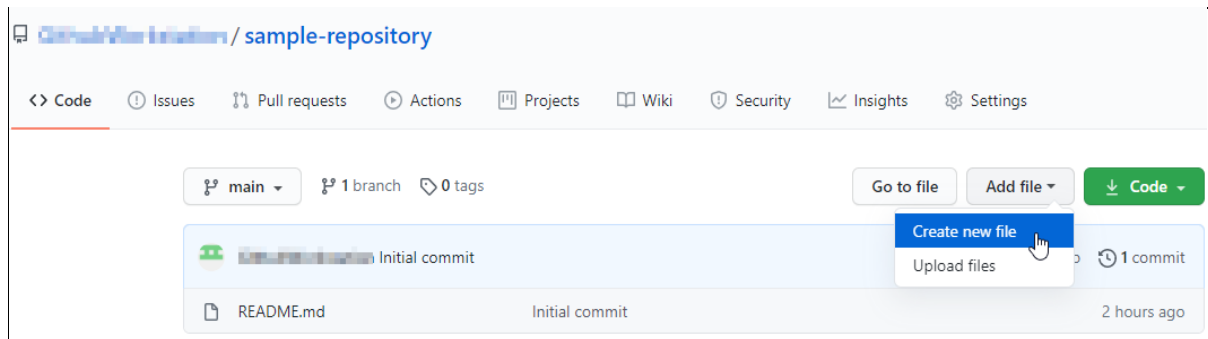
3.2 Enter the filename as **SampleFile.txt,** and add the following text in the **Edit new file** tab.

This is a sample file.

3.3 Next, scroll down to the **Commit New File** section. Write a Commit Message (**Example:** *Create SampleFile.txt*) and click on the **Commit New File** button

Commit new file

Create SampleFile.txt

Add an optional extended description...

- ◉ ─○─ Commit directly to the `main` branch.
- ○ ⌥ Create a **new branch** for this commit and start a pull request. Learn more about pull requests.

Commit new file   Cancel

3.4 Check the newly added file with the commit message

🖥 ░░░░░░░░░ / sample-repository

<> Code   ⓘ Issues **1**   ⌥ Pull requests   ▶ Actions   ▦ Projects   📖 Wiki   🛡 Security   📈 Insights   ⚙ Settings

⑂ main ▾   ⑂ **1** branch   🏷 **0** tags   Go to file   Add file ▾   ⬇ Code ▾

🤖 ░░░░░░░░ ░░░░ ░░░░   3373925 in 3 minutes   🕓 **4** commits

📄 README.md   Initial commit   9 hours ago
📄 SampleFile.txt   Create SampleFile.txt   now
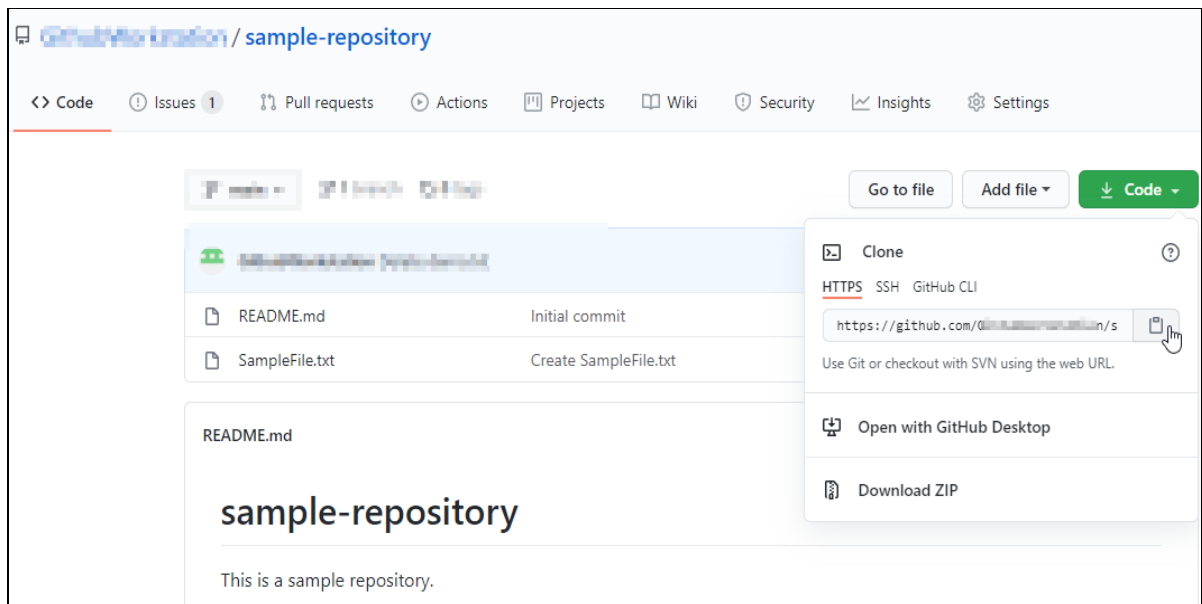
README.md   ✎

sample-repository

This is a sample repository.

Step 4: Clone a GitHub repository

4.1 Open the browser in your lab, go to **github.com,** and login to your account

4.2 Open the **sample-repository** repo, and click on the **Code** button.

4.3 Click on the icon as shown in the following image to copy the **url** provided under **HTTPS.**

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

 git clone URL

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

4.5 Use the following command to check the cloned repository:

ls

```
asmitaraysimpli@asmitaraysimpli:~$ ls
Desktop   samplerepository   sample-repository   thinclient_drives
asmitaraysimpli@asmitaraysimpli:~$ 
```

4.6 Navigate to the **sample-repository,** and check the files inside the repository.

cd sample-repository

ls

```
asmitaraysimpli@asmitaraysimpli:~$ cd sample-repository
asmitaraysimpli@asmitaraysimpli:~/sample-repository$ ls
README.md   SampleFile.txt
asmitaraysimpli@asmitaraysimpli:~/sample-repository$ 
```