

Lesson 04 Demo 01 Creating and Cloning a GitHub Repository

Objective: To create and clone a GitHub repository for testing and debugging

Tools required: GitHub

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=

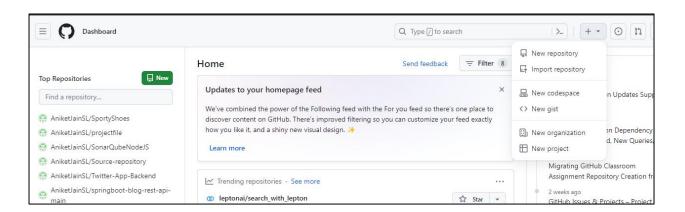
%2F&source=header-home

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, log in to your account, then click on the + icon from the upper-right corner of the page, and select New repository from the drop-down menu





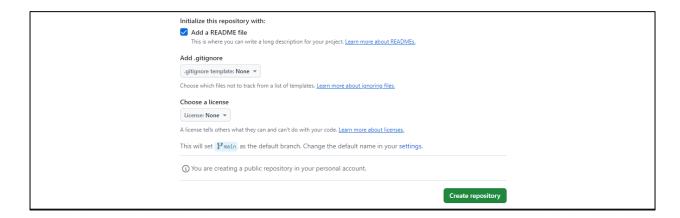
1.2 Enter **sample repository** as repository name inside field **Repository name.** Entering a **Description** is optional.



1.3 Choose **Public** for the repository type



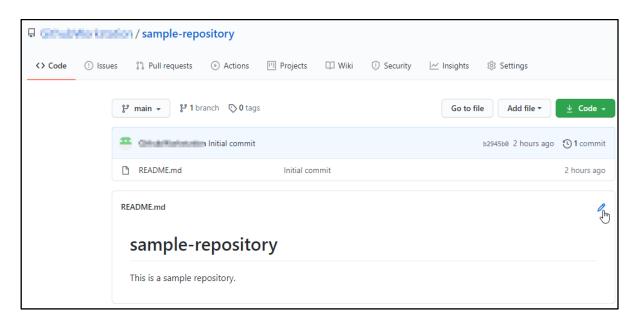
1.4 Select **Initialize this repository with a README** to include a README file for the repository and click on the **Create repository** button





Step 2: Edit the README file

2.1 Click on the Edit button to edit the README file

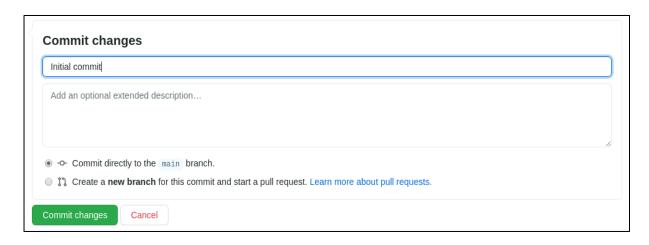


2.2 Add some text in the README file (Example: We have edited the README file.)





2.3 Type a commit message to describe the changes made in the file and then click on **Commit changes**



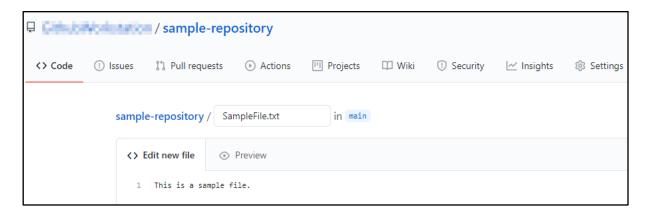
Step 3: Upload a file to the repository

3.1 Go to your GitHub repository; click on **Add file** and select **Create new file** to add new file to repository

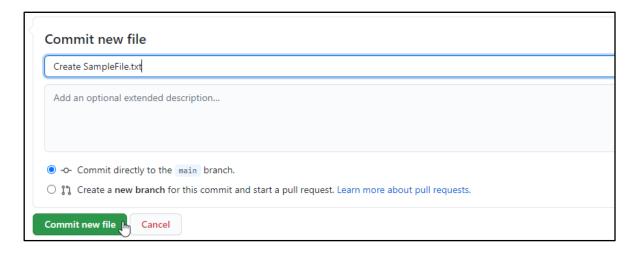




3.2 Enter the filename as **SampleFile.txt** and add the following text in the **Edit new file** tab: This is a sample file.

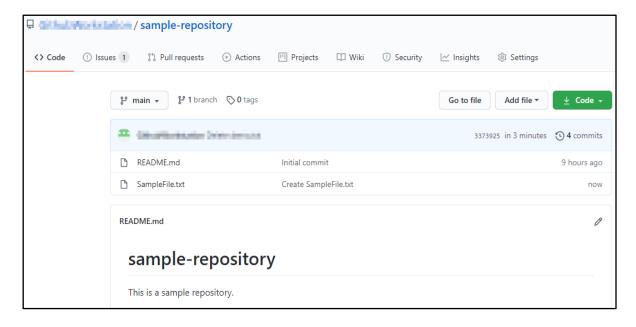


3.3 Next, scroll down to the **Commit new File** section, type a commit message (**Example:** Create SampleFile.txt), and click on the **Commit new file** button



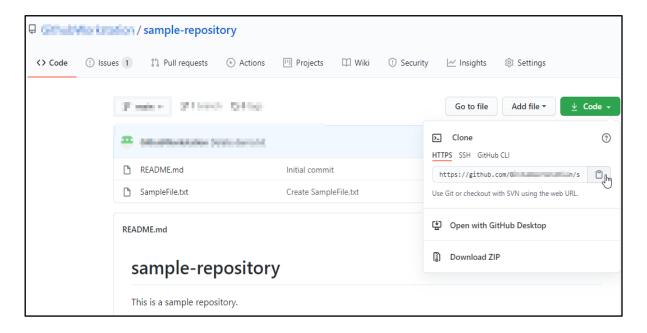


3.4 Check the newly added file with the commit message



Step 4: Clone the GitHub repository

4.1 Open the **sample-repository** repo, and click on the **Code** button to copy the URL provided under **HTTPS**





4.2 Open the terminal on your lab and use the following command to clone the repository: git clone URL

```
Cloning into 'sample-repository'...
remote: Enumerating objects: 15, done.
remote: Counting objects: 100% (15/15), done.
remote: Counting objects: 100% (11/11), done.
remote: Compressing objects: 100% (11/11), done.
remote: Total 15 (delta 1), reused 15 (delta 1), pack-reused 0
Receiving objects: 100% (15/15), done.
Resolving deltas: 100% (1/1), done.
```

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

4.3 Use the following command to check the cloned repository:

ls

4.4 Navigate to the **sample-repository** and check the files inside the repository by using the following commands:

cd sample-repository

ls

By following these steps, you have successfully created and cloned a GitHub repository allowing you to make changes, contribute, and collaborate with other projects.