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Lesson 02 Demo 02

Pushing a File to the GitHub Repository

Objective: To demonstrate the process of pushing a file to a GitHub repository using Git commands for version control and collaboration

Tools required: Git and GitHub

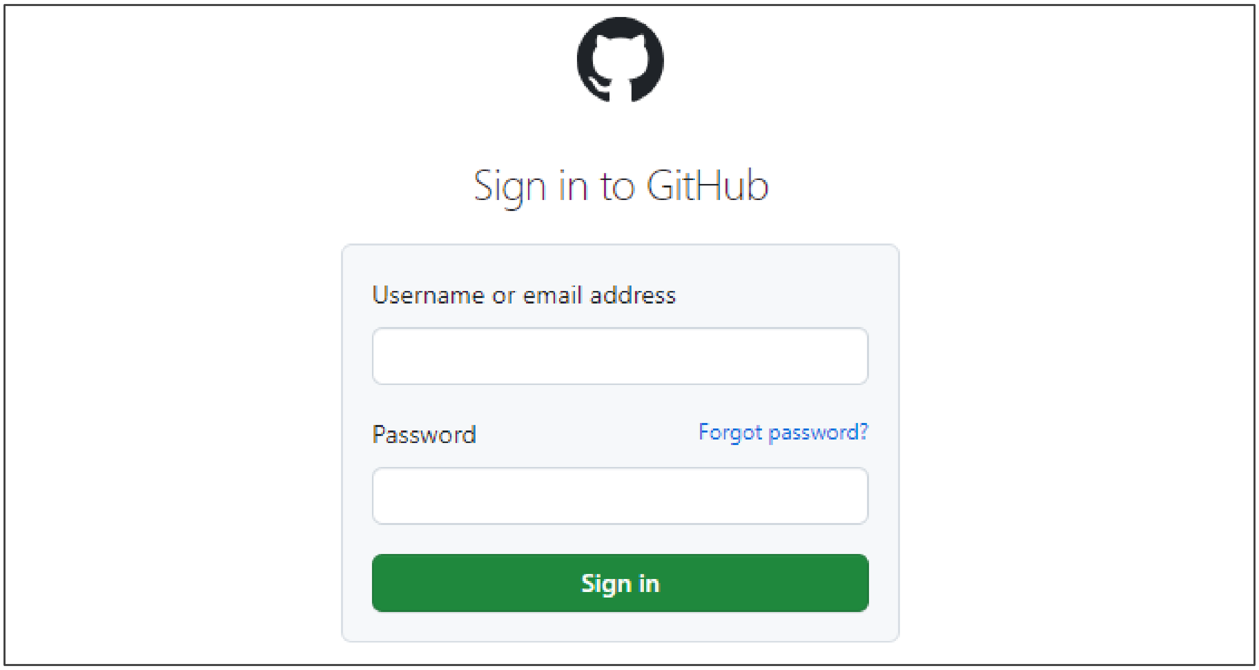
Prerequisites: You need to have Git installed to proceed with this demo.

Steps to be followed:

1. Create a GitHub repository
2. Create a repository on the local machine
3. Push the changes in the local repository to GitHub
4. Check the status of the local and remote repository

Step 1: Create a GitHub repository

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


Sign in to GitHub

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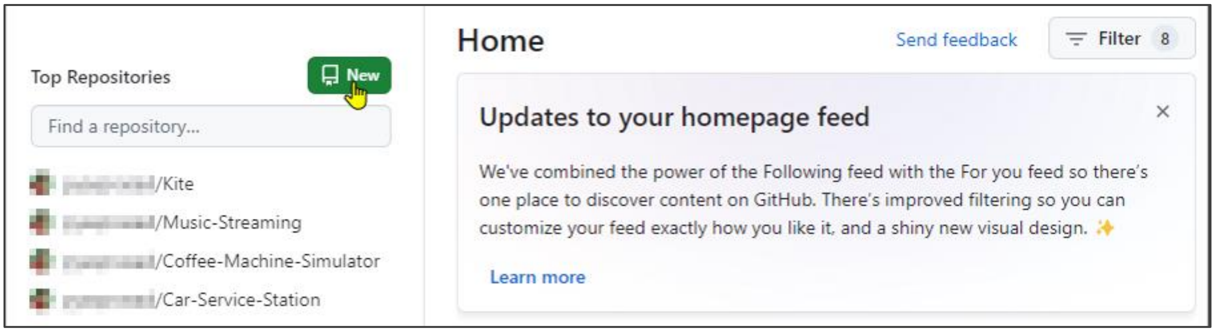
Note: If you do not have a GitHub account, visit the official website at https://github.com/signup and create a new account

1.2 Click on the **New** button to create a new GitHub repository



Top Repositories

Find a repository...

[redacted]/Kite

[redacted]/Music-Streaming

[redacted]/Coffee-Machine-Simulator

[redacted]/Car-Service-Station

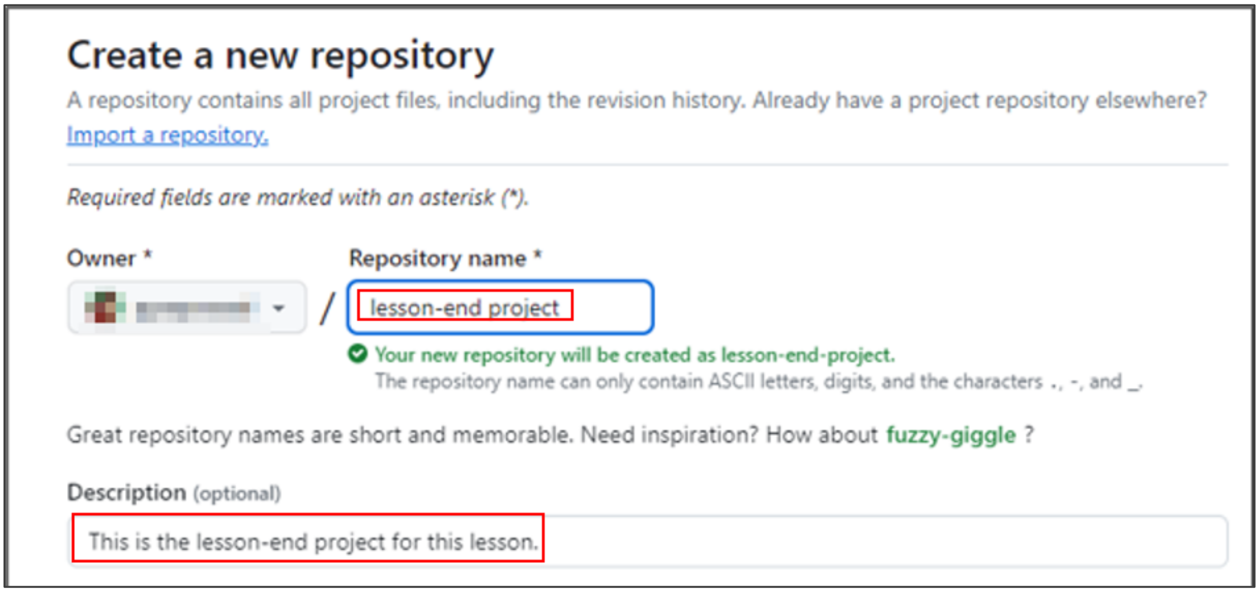
Home

Updates to your homepage feed

We've combined the power of the Following feed with the For you feed so there's one place to discover content on GitHub. There's improved filtering so you can customize your feed exactly how you like it, and a shiny new visual design. ✨

Learn more

1.3 Enter the repository name and description, then click 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.

Required fields are marked with an asterisk (*).

Owner * [redacted] / Repository name * lesson-end project

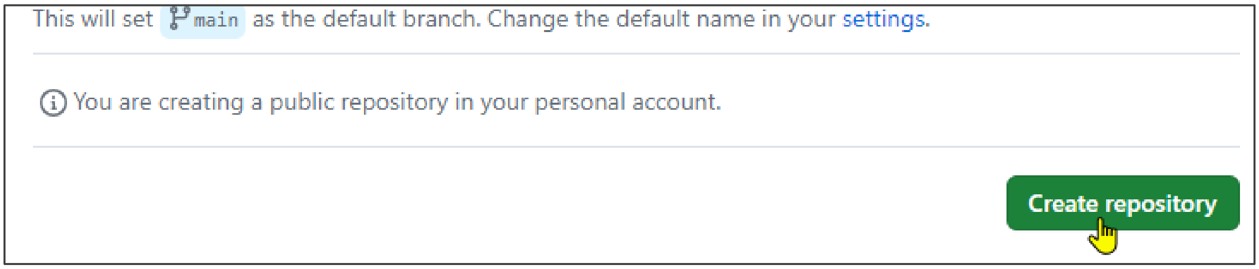
✓ Your new repository will be created as lesson-end-project.

The repository name can only contain ASCII letters, digits, and the characters ., -, and _.

Great repository names are short and memorable. Need inspiration? How about **fuzzy-giggle** ?

Description (optional)

This is the lesson-end project for this lesson.



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

ⓘ You are creating a public repository in your personal account.

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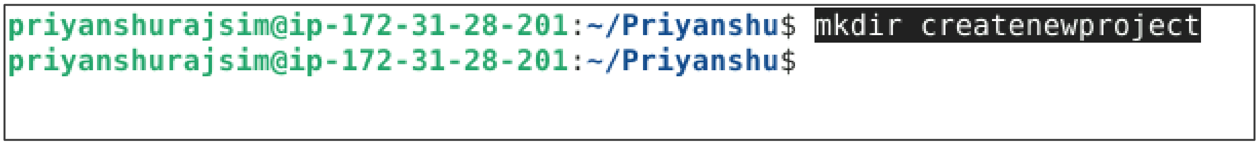
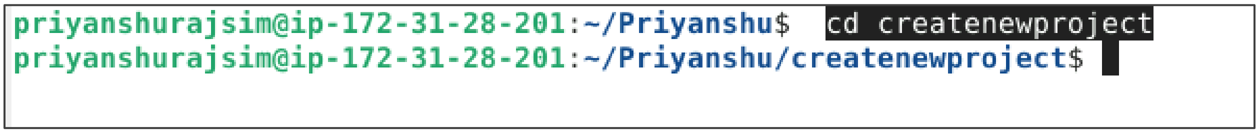
Step 2: Create a repository on the local machine

2.1 Open the terminal tab in your lab, and execute the following command to create a new project directory:
mkdir createnewproject



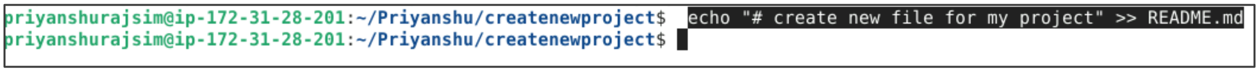
```
priyanshurajsim@ip-172-31-28-201:~/Priyanshu$ mkdir createnewproject
priyanshurajsim@ip-172-31-28-201:~/Priyanshu$
```

2.2 Run the following command to change the directory:
cd createnewproject



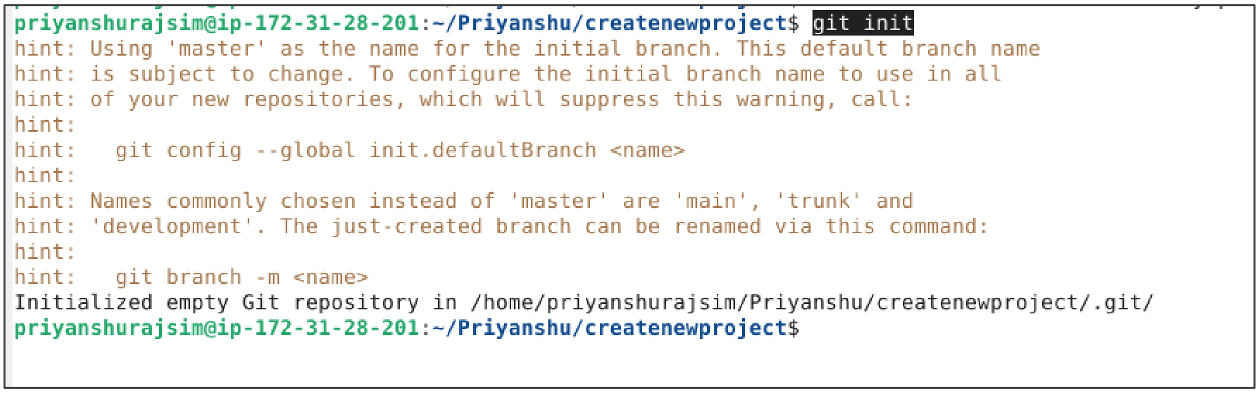
```
priyanshurajsim@ip-172-31-28-201:~/Priyanshu$  cd createnewproject
priyanshurajsim@ip-172-31-28-201:~/Priyanshu/createnewproject$
```

2.3 Create a README file using the following command:
echo "# create new file for my project" >> README.md



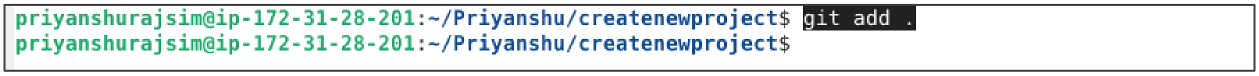
```
priyanshurajsim@ip-172-31-28-201:~/Priyanshu/createnewproject$  echo "# create new file for my project" >> README.md
priyanshurajsim@ip-172-31-28-201:~/Priyanshu/createnewproject$
```

2.4 Initialize the Git repository using the following command:
git init



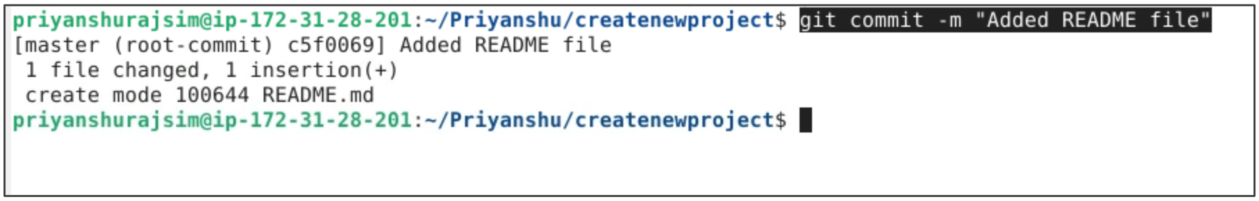
```
priyanshurajsim@ip-172-31-28-201:~/Priyanshu/createnewproject$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/priyanshurajsim/Priyanshu/createnewproject/.git/
priyanshurajsim@ip-172-31-28-201:~/Priyanshu/createnewproject$
```

2.5 Add the README file using the command given below:
git add .



```
priyanshurajsim@ip-172-31-28-201:~/Priyanshu/createnewproject$ git add .
priyanshurajsim@ip-172-31-28-201:~/Priyanshu/createnewproject$
```

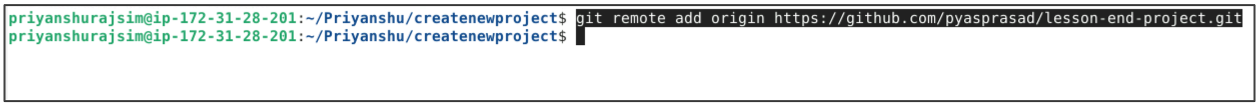
2.6 Use the following command to commit the changes:
git commit -m "Added README file"



```
priyanshurajsim@ip-172-31-28-201:~/Priyanshu/createnewproject$ git commit -m "Added README file"
[master (root-commit) c5f0069] Added README file
 1 file changed, 1 insertion(+)
 create mode 100644 README.md
priyanshurajsim@ip-172-31-28-201:~/Priyanshu/createnewproject$ 
```

Step 3: Push the changes in the local repository to GitHub

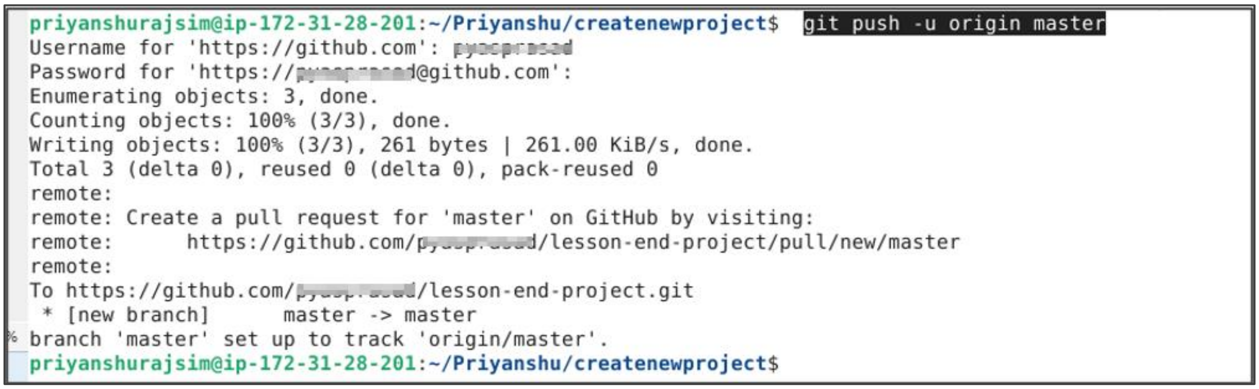
3.1 Open the **Terminal** and add a remote repository using the following command:
git remote add origin <URL>



```
priyanshurajsim@ip-172-31-28-201:~/Priyanshu/createnewproject$ git remote add origin https://github.com/pyasprasad/lesson-end-project.git
priyanshurajsim@ip-172-31-28-201:~/Priyanshu/createnewproject$ 
```

Note: While creating the remote repository, copy the HTTPS URL

3.2 Push the changes to the remote repository using the following command:
git push -u origin master



```
priyanshurajsim@ip-172-31-28-201:~/Priyanshu/createnewproject$  git push -u origin master
Username for 'https://github.com': [redacted]
Password for 'https://[redacted]@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 261 bytes | 261.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:      https://github.com/[redacted]/lesson-end-project/pull/new/master
remote:
To https://github.com/[redacted]/lesson-end-project.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
priyanshurajsim@ip-172-31-28-201:~/Priyanshu/createnewproject$
```

Note: After executing the Git push command, you will be asked to enter the username and password for your GitHub account.

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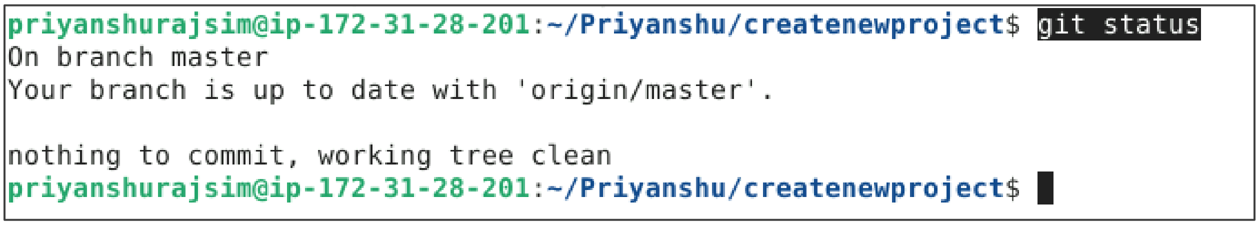
Step 4: Check the status of the local and remote repository

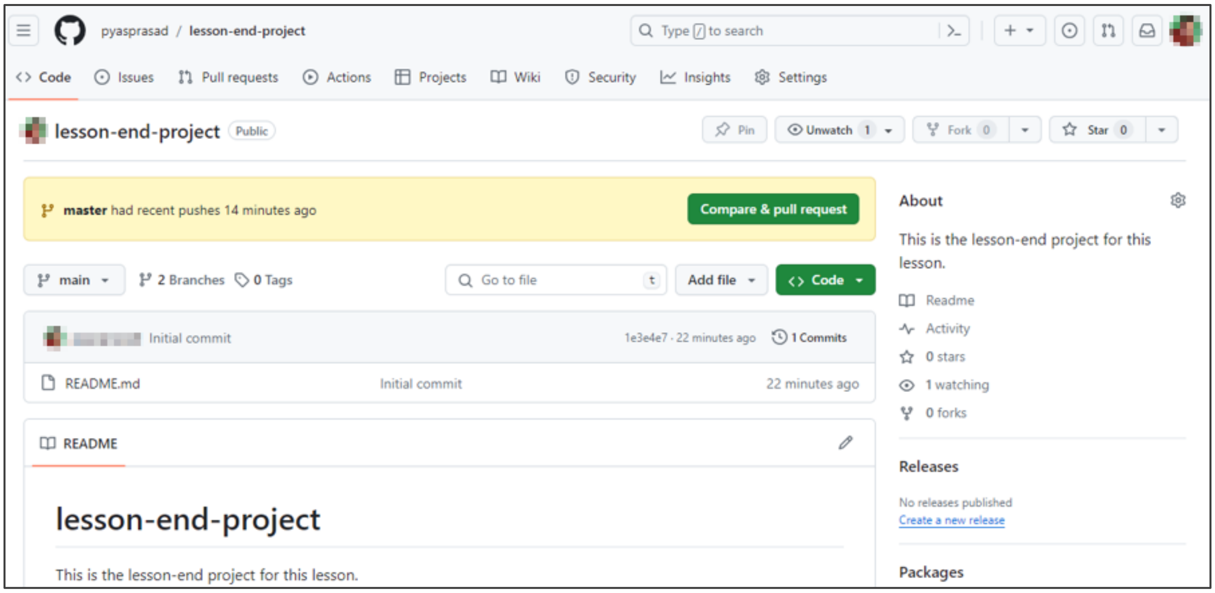
4.1 Run the following command to check the status of the local repository:
git status



```
priyanshurajsim@ip-172-31-28-201:~/Priyanshu/createnewproject$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean
priyanshurajsim@ip-172-31-28-201:~/Priyanshu/createnewproject$ 
```

4.2 Visit **github.com** to inspect the remote repository



pyasprasad / lesson-end-project

lesson-end-project Public

master had recent pushes 14 minutes ago

[redacted] Initial commit 1e3e4e7 · 22 minutes ago 1 Commits

README.md Initial commit 22 minutes ago

About

This is the lesson-end project for this lesson.

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

lesson-end-project

This is the lesson-end project for this lesson.

By following these steps, you've effectively demonstrated the process of pushing a file to a GitHub repository using Git commands for version control and collaboration.