# Exercise: Managing a project in GitHub



## Learning Objectives

Instructions

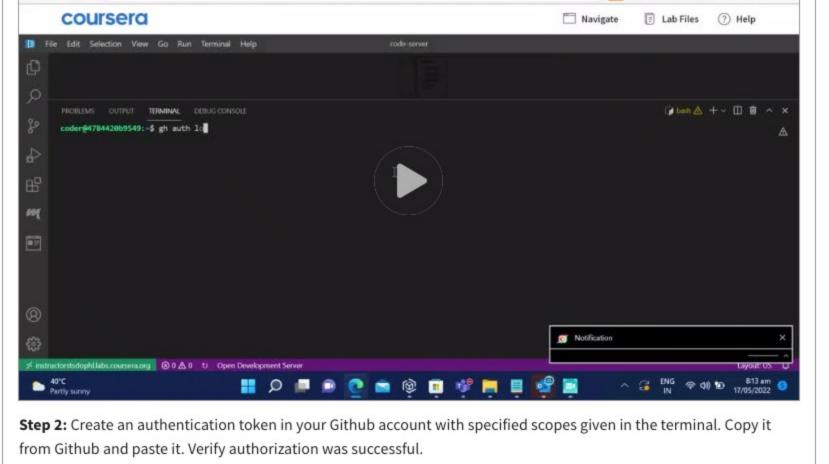
- Fork a repository
- Clone the forked repository Update a file
- Inspect the file using the diff command
- Commit and push the file to the forked repository
- Instructions

### In the following exercises, you're going to fork a repository and inspect the diff output of a changed file.

If you're managing a Github repository, inspecting file changes is an important part of maintaining the repository.

Step 1: Open the Terminal and authenticate using gh (Github CLI):

gh auth login

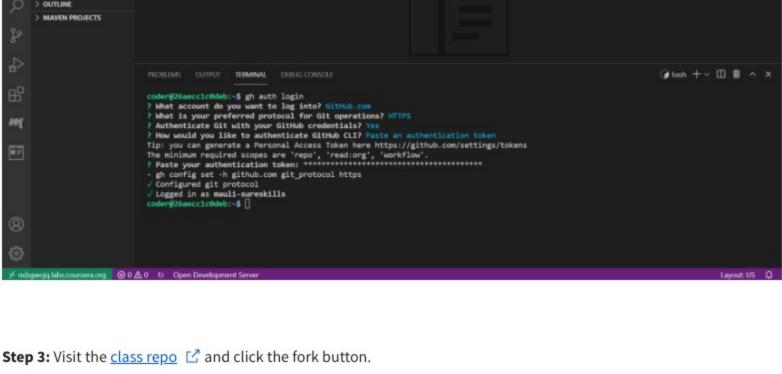


Lab Files coursera ? Help

> NO FOLDER OPENED

☆ Star 0

Note: A new token will not be needed if one has already been created and is non-expired.



**Step 4:** Select the owner from the dropdown and add a description (optional) and then click the Create fork button.

ሦ Fork 3

## A fork is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project. View existing forks.

Create a new fork

Watch 0 

▼

Owner \*

further.

Description (optional)

Create fork

test.txt

README.md

5

6

7 8

9

10

11

12

Yellow

Coral

Silver

Fuchsia

Purple

Brown

Step 9: Save the file

Charcoal Khaki

m4l1\_managing\_a\_project By default, forks are named the same as their parent repository. You can customize the name to distinguish it

You are creating a fork in your personal account.

♦ Code ⊙ Issues ↑ Pull requests ⊙ Actions ☐ Projects ☐ Wiki ⊙ Security └ Insights

Repository name \*

P main → P 1 branch © 0 tags □ Clone s Initial commit

Initial commit

Initial commit

**Step 5:** Clone the repository using the GitHub CLI command.

/ test-repo Public

```
Open with GitHub Desktop
                                                                                     Releases
                                                                                    No releases published
     test-repo
                                                 Download ZIP
gh repo clone <YOUR USERNAME>/<REPOSITORY-NAME>
Step 6: Move to the repo directory by using cd <REPOSITORY-NAME>
Step 7: Open the file named class.txt
Step 8: Replace the content of the file with the contents below.
    1
         Crimson
    2
        0range
        Blue
    3
    4
        Cyan
```

HTTPS SSH GitHub CLI

gh repo clone

Work fast with our official CLI. Learn more.

Add file \*

/test-repo 📮

3

Readme

☆ 0 stars

¥ 1 fork

1 watching

⊙ Unwatch 1 + ♀ ♀ Fork 1 ☆ Star 0 +

No description, website, or topics provided.

13 Red

**Step 11:** Add the file and commit it to the repository with a message.

Step 10: Using the diff command, note which lines were deleted and which lines were added. git diff

git commit -m 'some message'

git add class.txt

**Step 12:** Push the commit to the forked repository.

git push

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