Exercise: Managing a project in GitHub

Launch Lab ⎘

∨ Instructions

Learning Objectives

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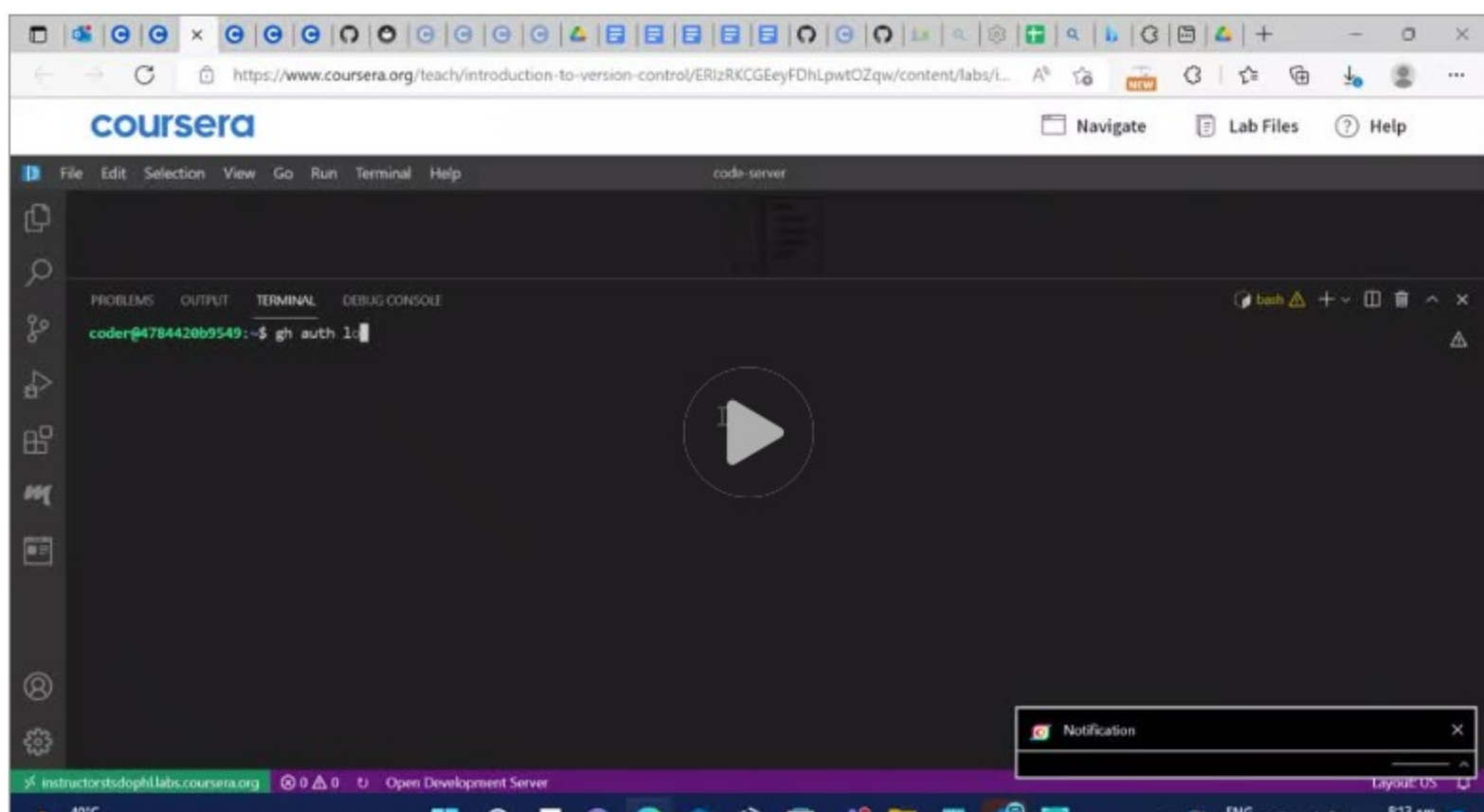- Commit and push the file to the forked repository

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

Step 2: Create an authentication token in your Github account with specified scopes given in the terminal. Copy it from Github and paste it. Verify authorization was successful.

Note: *A new token will not be needed if one has already been created and is non-expired.*
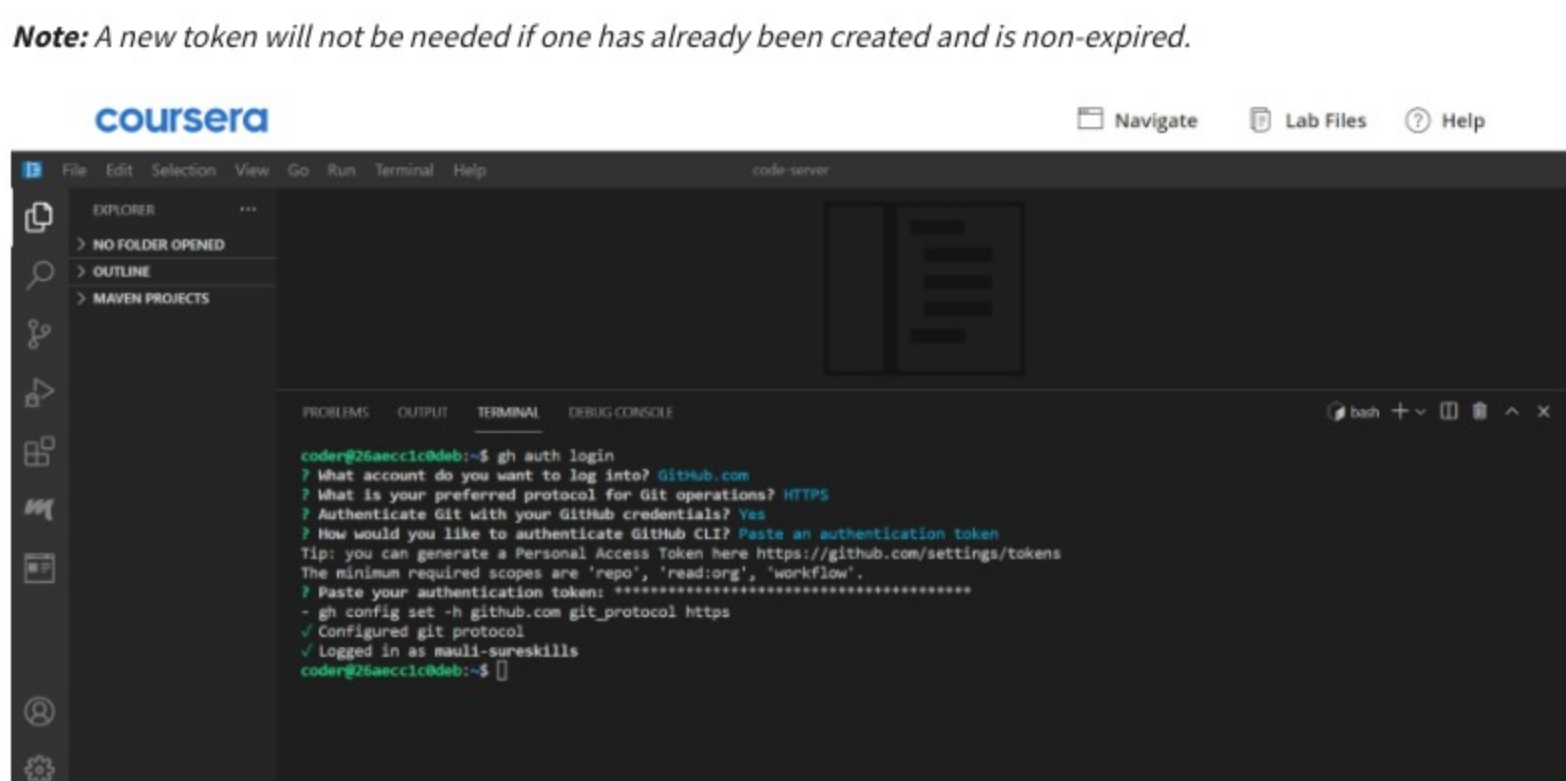
Step 3: Visit the class repo ⎘ and click the fork button.
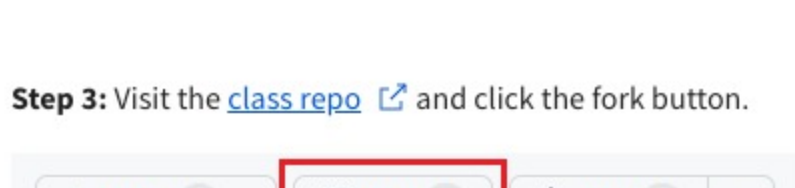
Step 4: Select the owner from the dropdown and add a description (optional) and then click the Create fork button.

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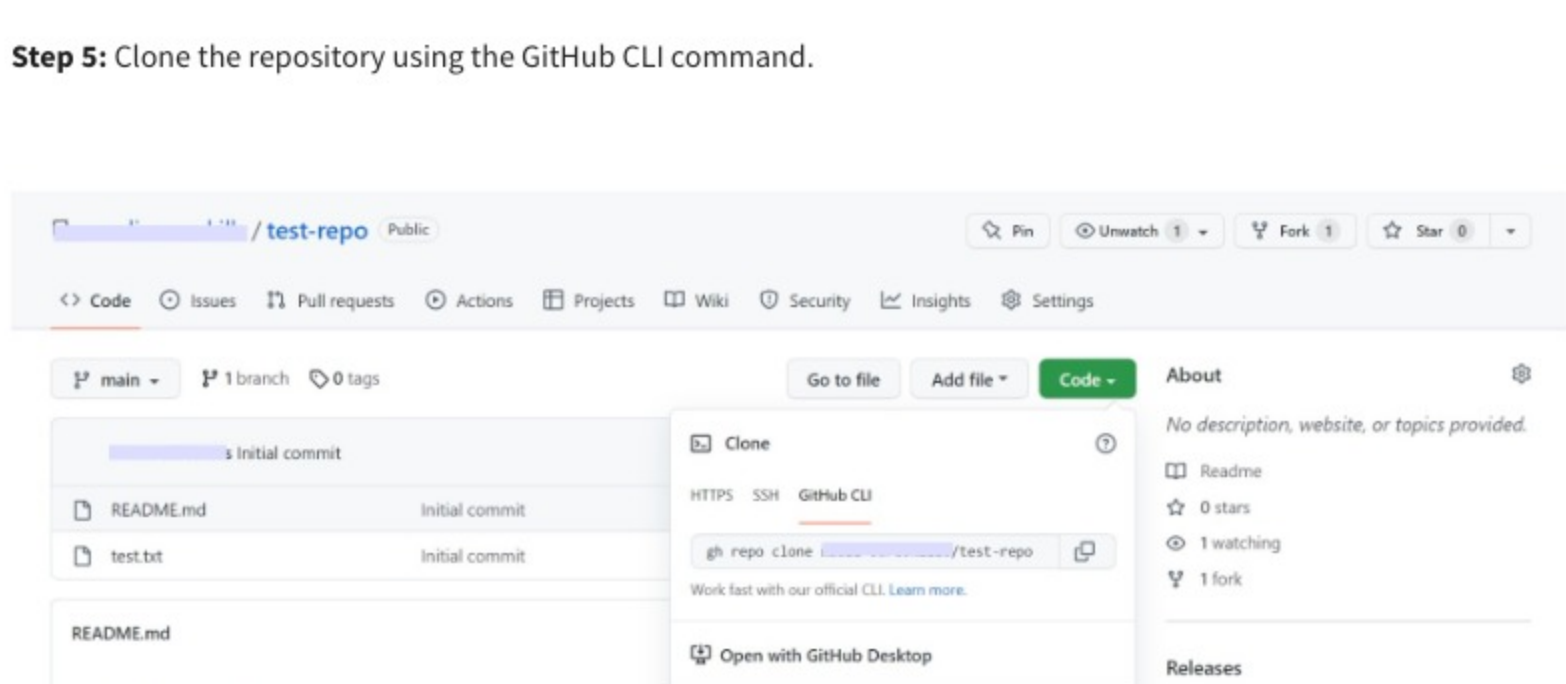

```
gh repo clone <YOUR USERNAME>/<REPOSITORY-NAME>
```

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    Orange
 3    Blue
 4    Cyan
 5    Yellow
 6    Charcoal
 7    Khaki
 8    Coral
 9    Silver
10    Fuchsia
11    Purple
12    Brown
13    Red
```

Step 9: Save the file

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

```
git diff
```

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

```
git add class.txt
```

```
git commit -m 'some message'
```

Step 12: Push the commit to the forked repository.

```
git push
```

👍 Like   👎 Dislike   ⚑ Report an issue