

# Hands-on Lab: Creating and merging branches in your GitHub repo

Effort: 20 min

## Objectives

After completing this lab you will be able to:

- 1. Create a branch
- 2. Commit changes in the child branch
- 3. Open a pull request (PR)
- 4. Merge the PR into the master branch

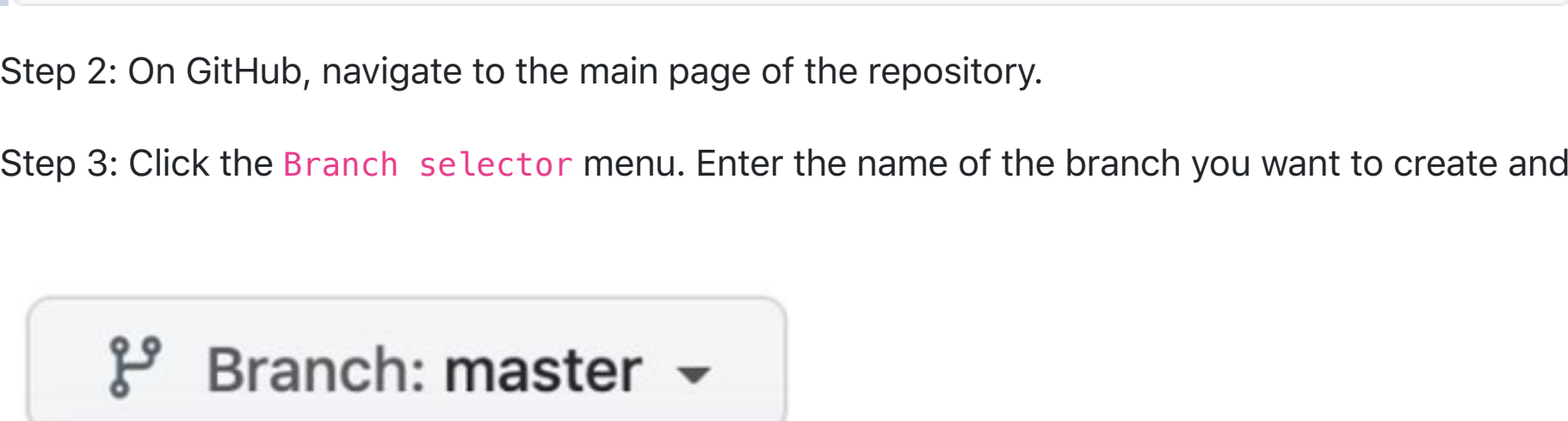
## Pre-requisites

This hands-on lab requires you to have already created a GitHub account, and added a project to it, as illustrated in the [previous lab](#)

## Exercise 1: Creating a branch

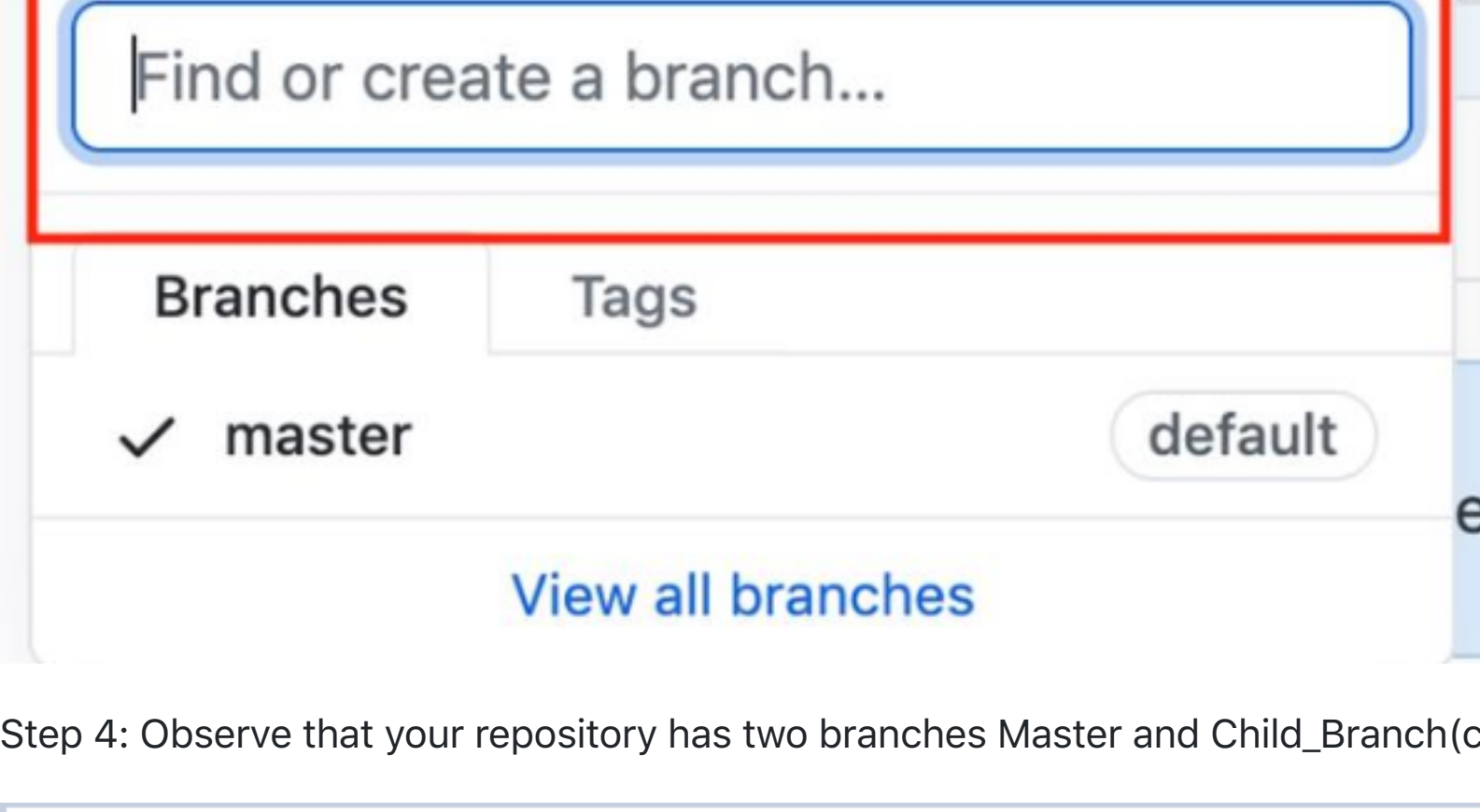
You can create or delete branches directly on GitHub.

Step 1: Currently, there is one branch as shown below:

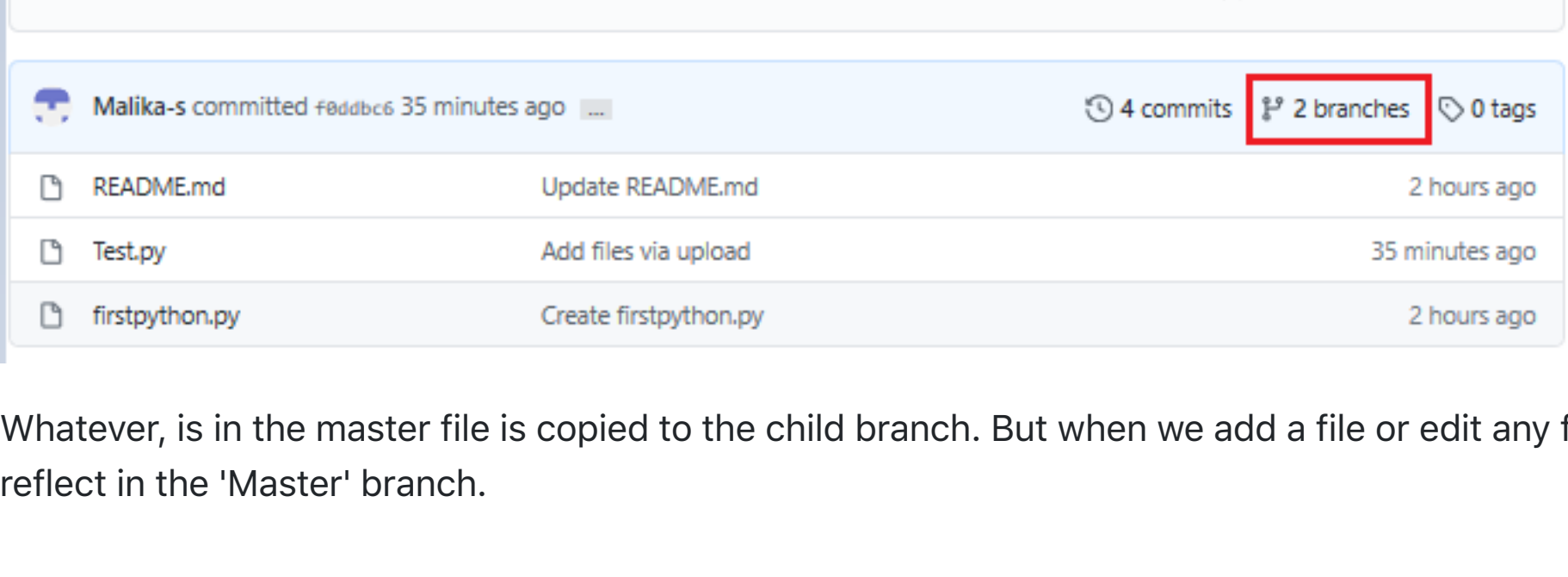


Step 2: On GitHub, navigate to the main page of the repository.

Step 3: Click the **Branch selector** menu. Enter the name of the branch you want to create and press **Enter**.



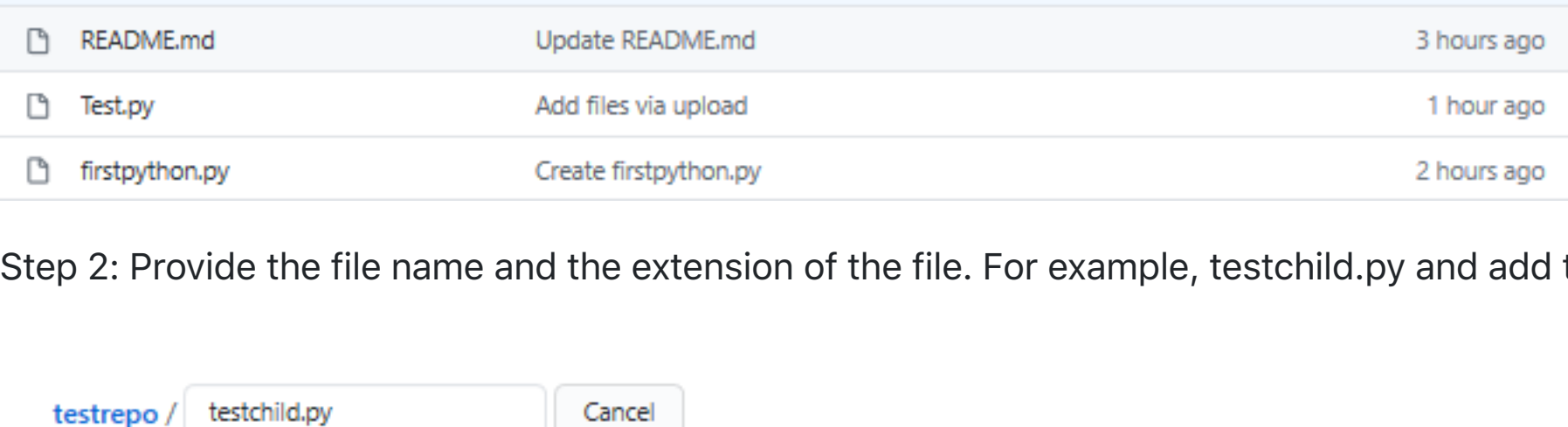
Step 4: Observe that your repository has two branches Master and Child\_Branch(check using arrow).



Whatever, is in the master file is copied to the child branch. But when we add a file or edit any file in child branch that will not reflect in the 'Master' branch.

## Exercise 2: Adding a file in the Child Branch

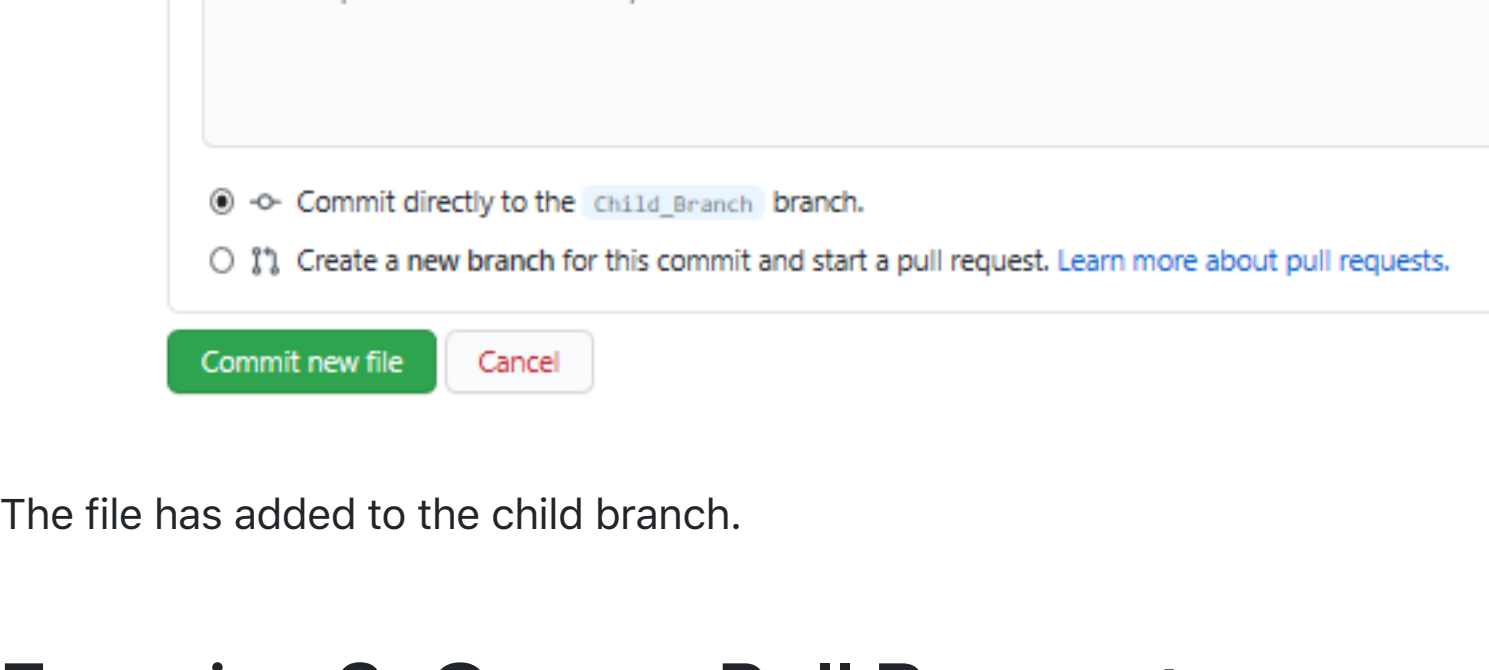
Step 1: Click **Add file** and select **Create New file** to create a file in the repository.



Step 2: Provide the file name and the extension of the file. For example, testchild.py and add the lines.



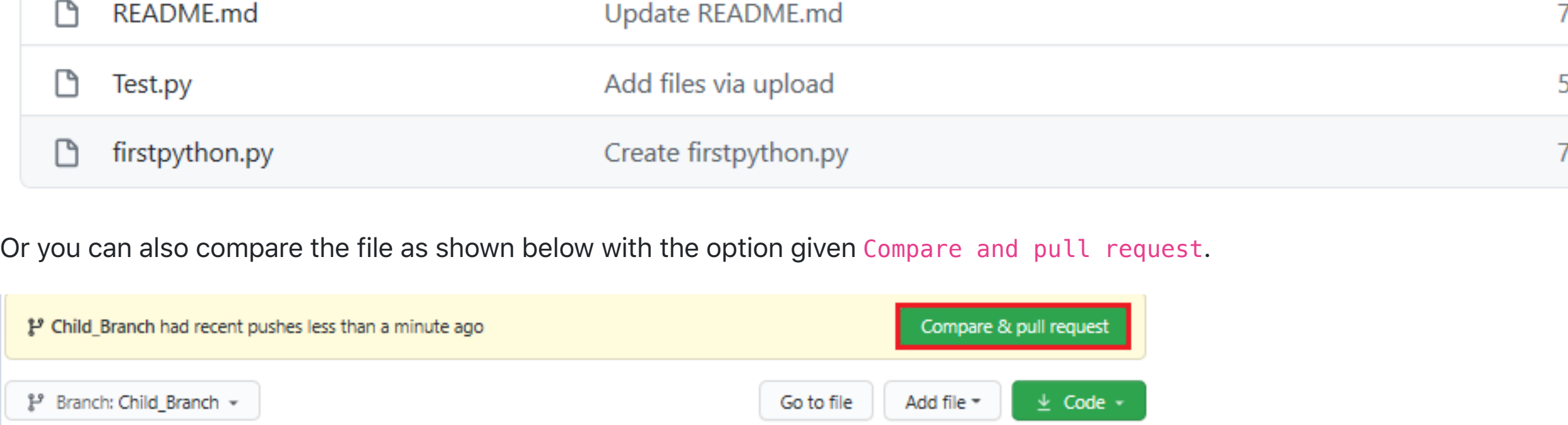
Step 3: Scroll down the page after adding the text. Add a description of the file (optional) and click **Commit new file**.



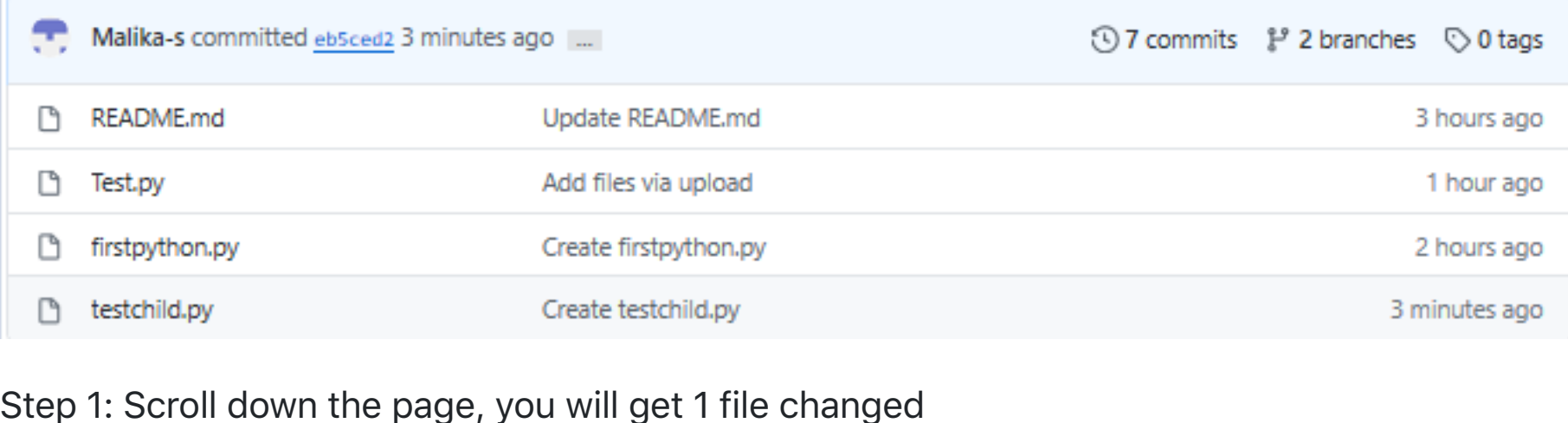
The file has added to the child branch.

## Exercise 3: Open a Pull Request

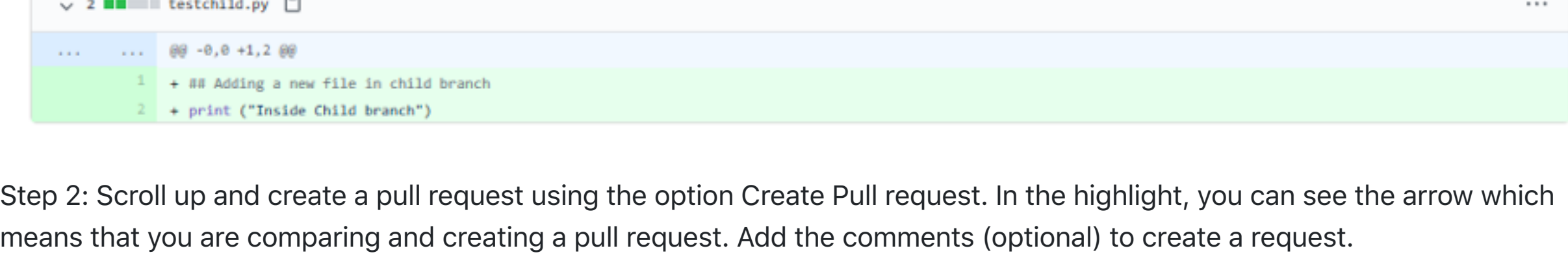
You can check the master branch now there is no testchild.py file by selecting the **Branch selector** menu.



Or you can also compare the file as shown below with the option given **Compare and pull request**.



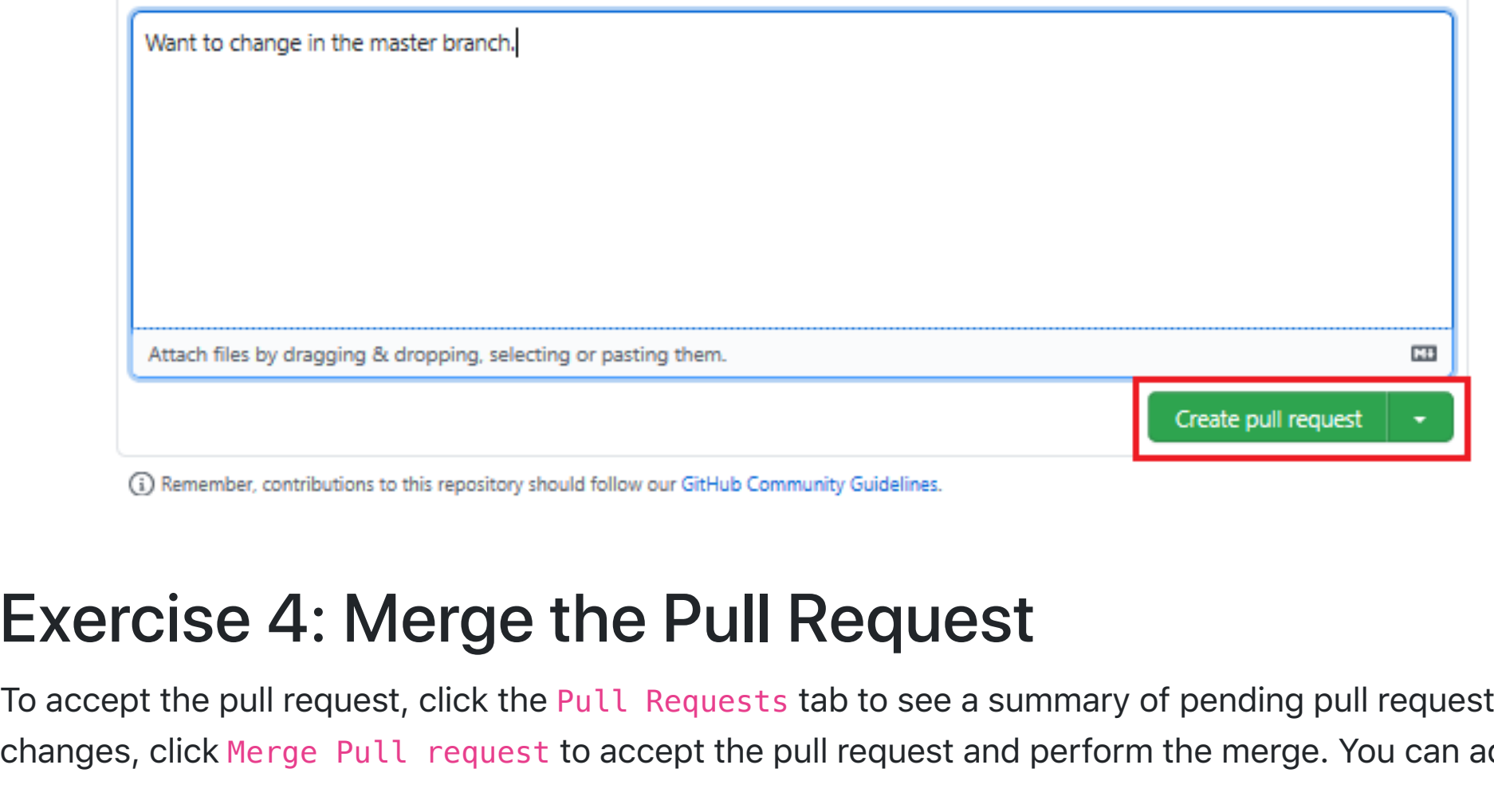
Step 1: Scroll down the page, you will get 1 file changed



Step 2: Scroll up and create a pull request using the option Create Pull request. In the highlight, you can see the arrow which means that you are comparing and creating a pull request. Add the comments (optional) to create a request.

## Open a pull request

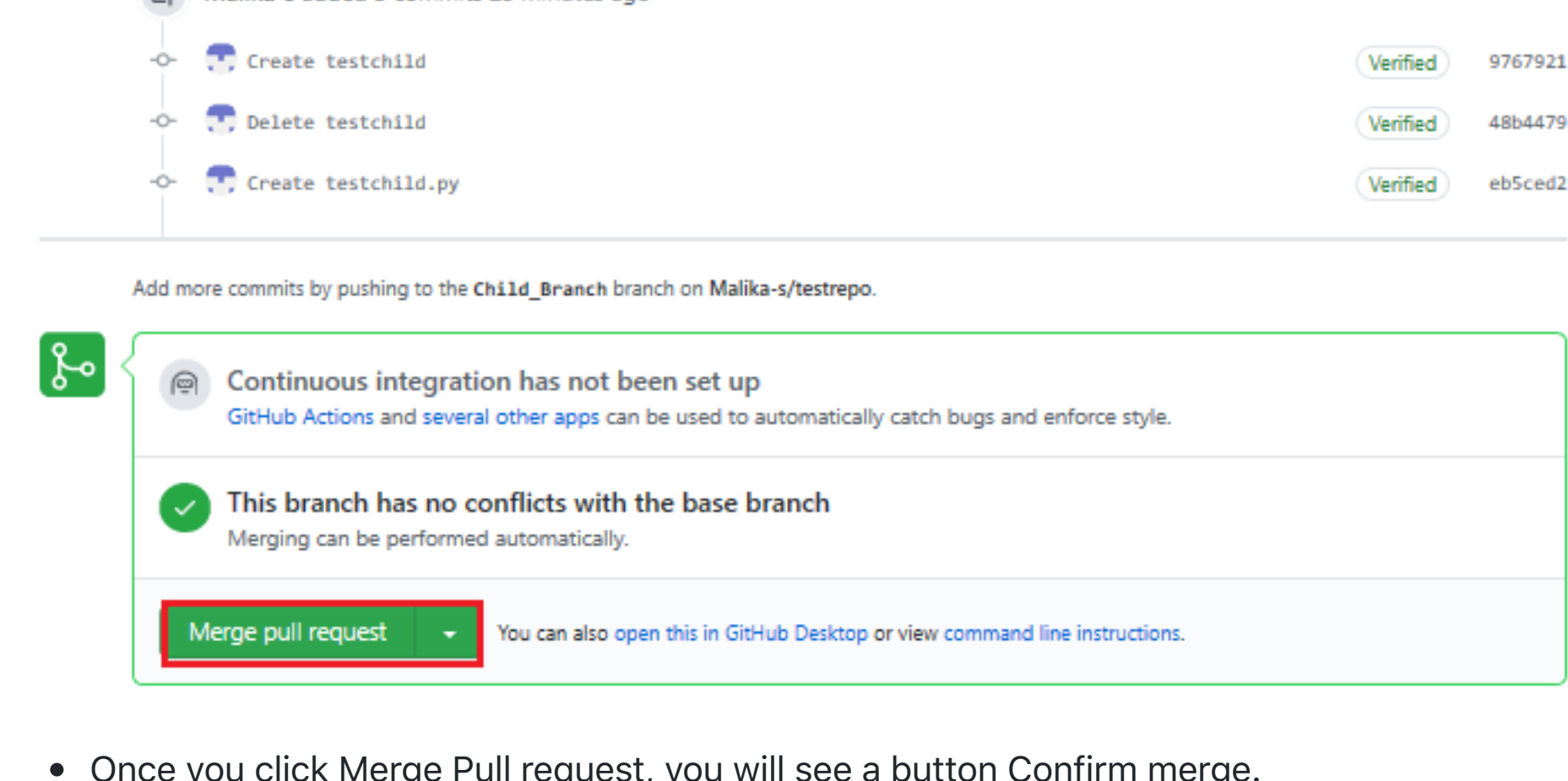
Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).



## Exercise 4: Merge the Pull Request

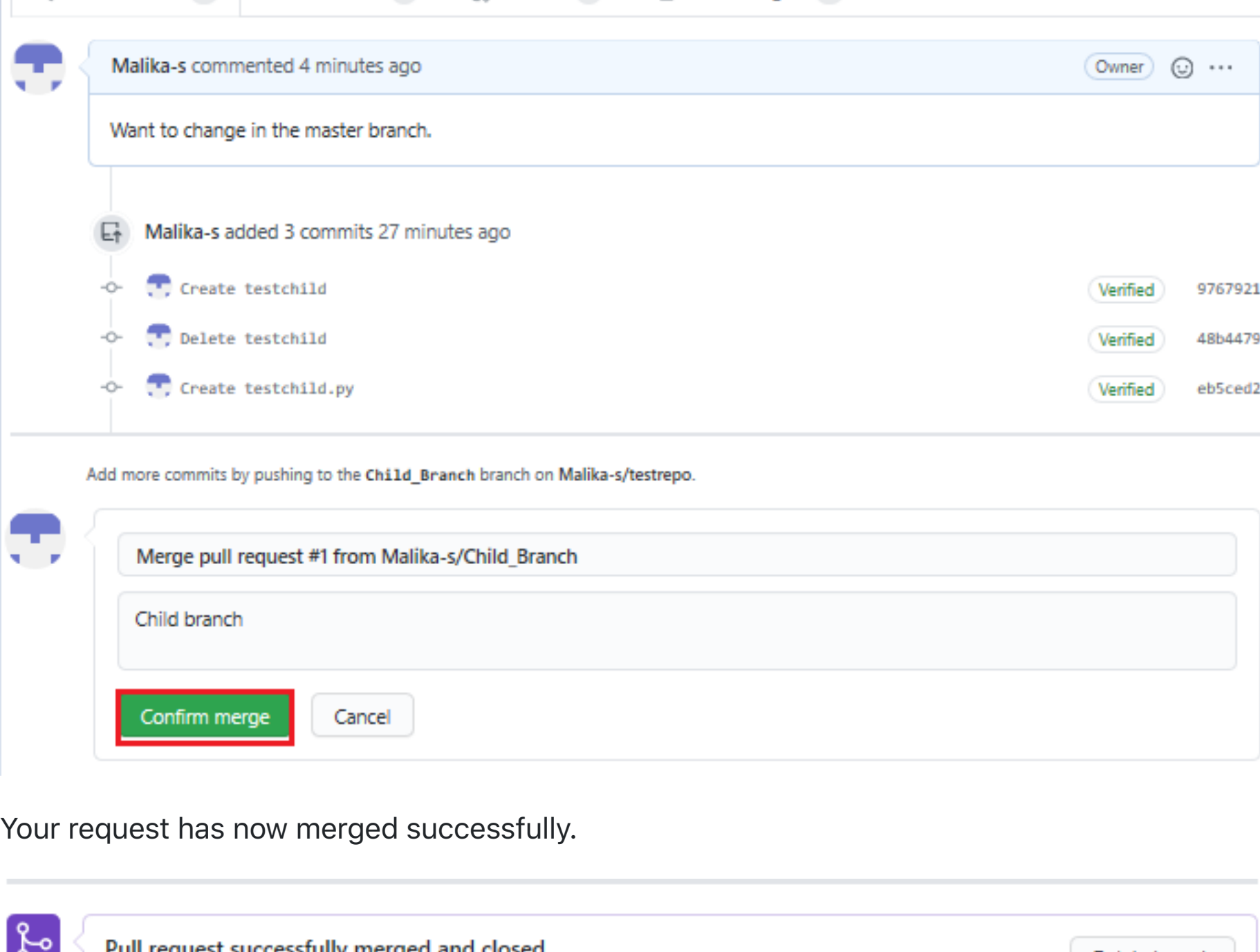
To accept the pull request, click the **Pull Requests** tab to see a summary of pending pull requests. If you are happy with the changes, click **Merge Pull request** to accept the pull request and perform the merge. You can add a comment if you want.

### Child branch #1

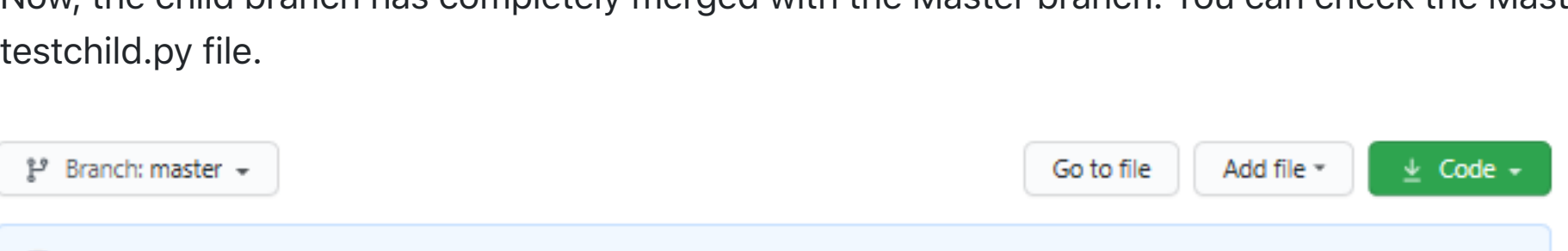


- Once you click Merge Pull request, you will see a button Confirm merge.

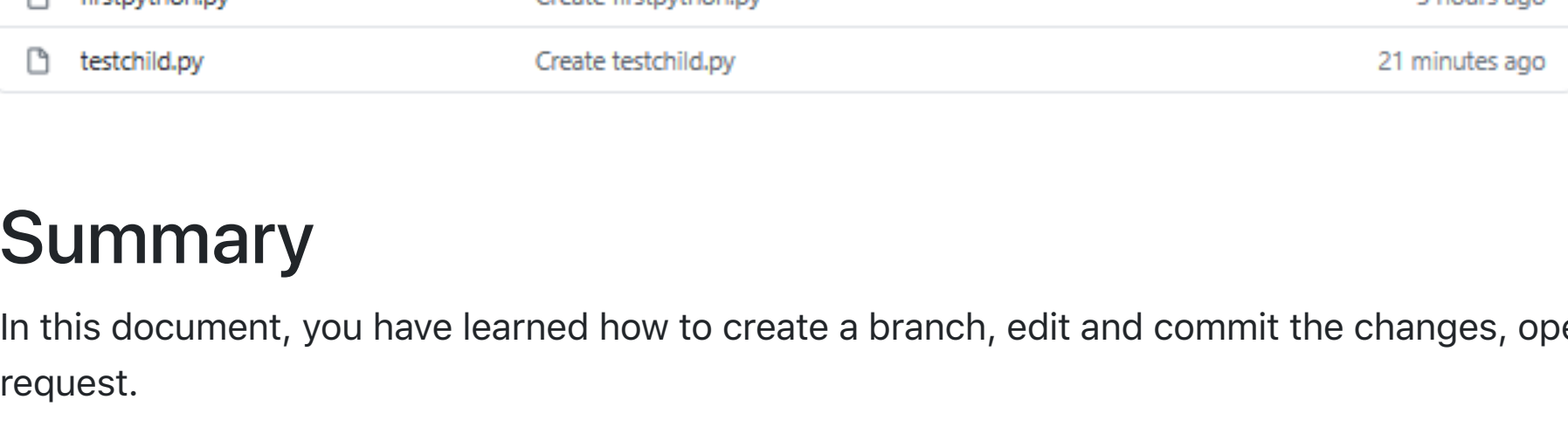
### Child branch #1



Your request has now merged successfully.



Now, the child branch has completely merged with the Master branch. You can check the Master branch is having the testchild.py file.



## Summary

In this document, you have learned how to create a branch, edit and commit the changes, open a pull request and merge the request.

## Author(s)

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## Other Contributor(s)

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## Changelog

Date	Version	Changed by	Change Description
2020-07-16	0.4	Malika Singla	Spell check, steps added
2020-07-14	0.3	Rav Ahuja	Changed logo, updated title, intro, objectives, added Effort, Authors and Changelog
2020-07-13	0.2	Malika Singla	Added to GitLab and made some formatting changes, added objectives, etc.
2020-06-30	0.1	Malika Singla	Drafted initial version