

Lab: Branching and Merging (Web UI)

Estimated time: 15 minutes

Objectives

After completing this lab, you will be able to:

1. Create a branch
2. Commit changes to a child branch
3. Open a pull request
4. Merge a pull request into the main branch

Prerequisites

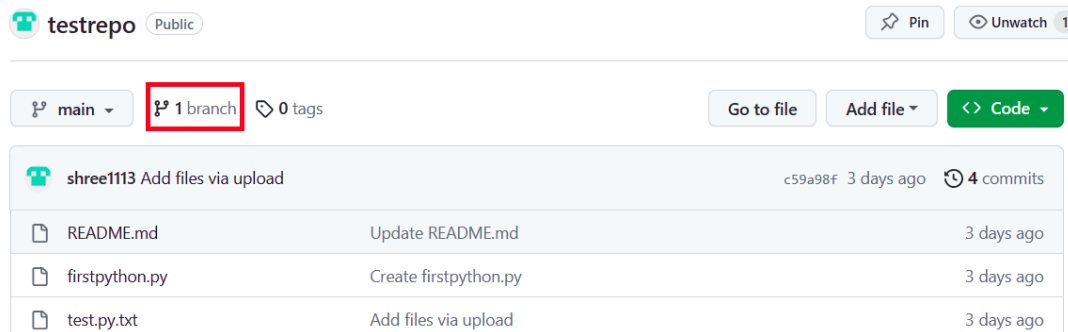
This hands-on lab requires you to have created a GitHub account with a repository in it, as covered in [Getting started with GitHub](#) lab.

NOTE: In the past the default branch in your GitHub repo used the name `master`. Effective Oct 1, 2020, all new GitHub repositories will use the more inclusive term `main` as the name of the default branch instead of `master`.

1. Create a branch

You can create or delete branches using your repository's GitHub web page. To add a branch to your repository, complete the following steps:

1. Go to your repository's main page. Note that when you create your repository, the one branch named `main` was created for you.



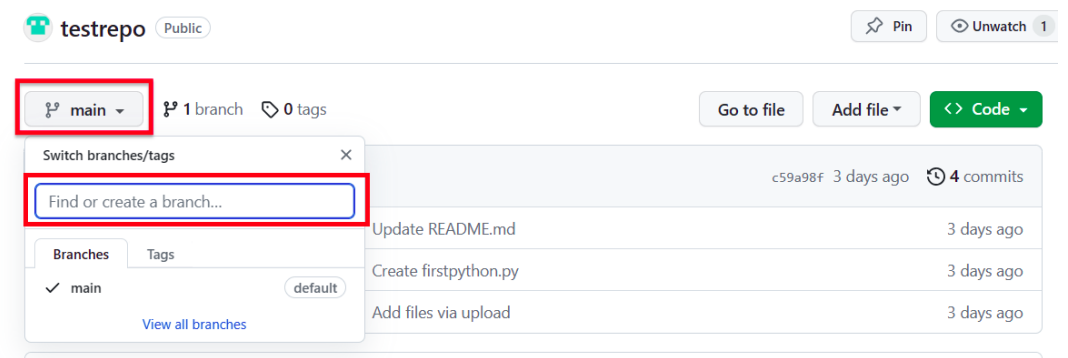
testrepo Public

main 1 branch 0 tags

Go to file Add file <> Code

shree1113 Add files via upload	c59a98f 3 days ago	4 commits
README.md	Update README.md	3 days ago
firstpython.py	Create firstpython.py	3 days ago
test.py.txt	Add files via upload	3 days ago

2. At the top of the file list, locate the **Branch** drop-down menu. (By default, the menu displays **Branch: main**.) Click the drop-down menu, type the name of the branch you want to create, and press `enter` or `return` on your keyboard.



testrepo Public

main 1 branch 0 tags

Go to file Add file <> Code

Switch branches/tags

Find or create a branch...

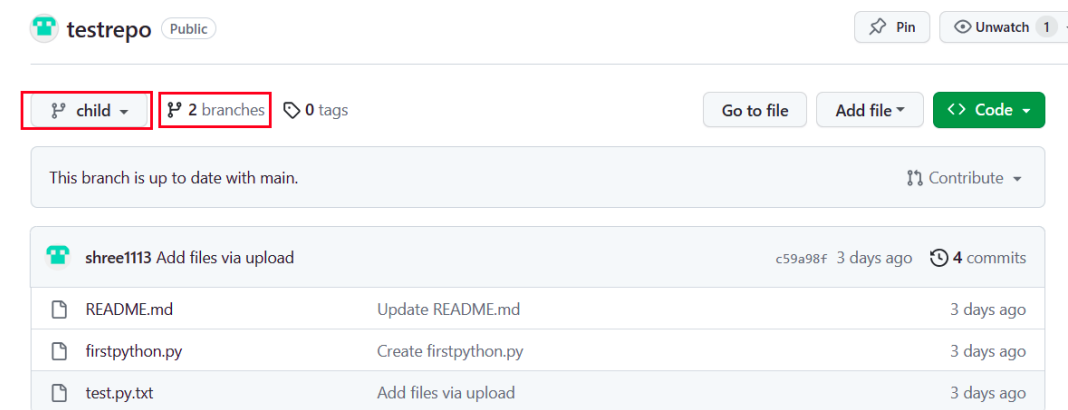
Branches Tags

main default

View all branches

shree1113 Add files via upload	c59a98f 3 days ago	4 commits
README.md	Update README.md	3 days ago
firstpython.py	Create firstpython.py	3 days ago
test.py.txt	Add files via upload	3 days ago

Your repository now has two branches: `Main` and `Child_Branch`. You can click the drop-down menu to see your branches.



testrepo Public

child 2 branches 0 tags

Go to file Add file <> Code

This branch is up to date with main.

Contribute

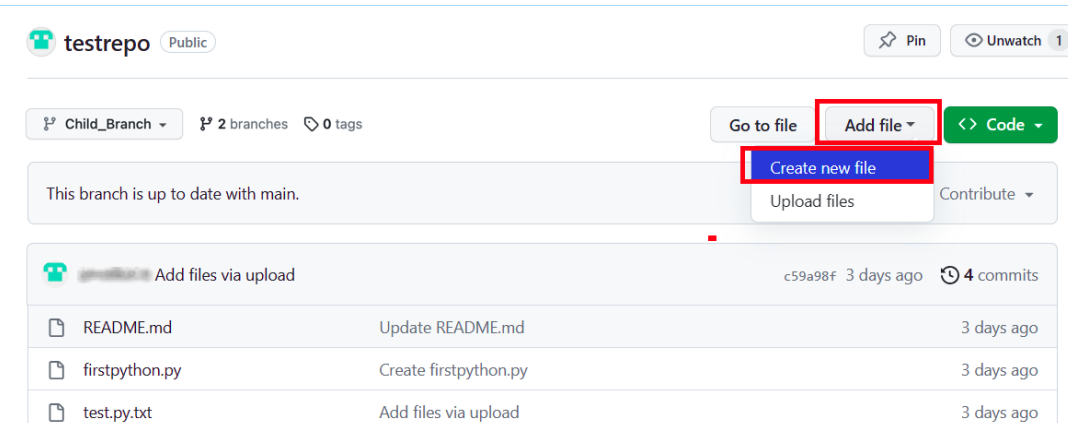
shree1113 Add files via upload	c59a98f 3 days ago	4 commits
README.md	Update README.md	3 days ago
firstpython.py	Create firstpython.py	3 days ago
test.py.txt	Add files via upload	3 days ago

Any files that were in the `main` branch are reflected in the `Child_Branch`. Note that when you add or edit a file in `Child_Branch`, that change will not automatically reflect in the `main` branch.

2. Add a file to a branch

To add a file to your new branch, ensure that the name you gave the new branch (which in the case of the example showcased is `Child_Branch`) is displayed in the **Branch** drop-down menu and complete the following steps:

1. Click **Add file** > **Create new file** to create a file in the repository.



testrepo Public

Child_Branch 2 branches 0 tags

Go to file Add file <> Code

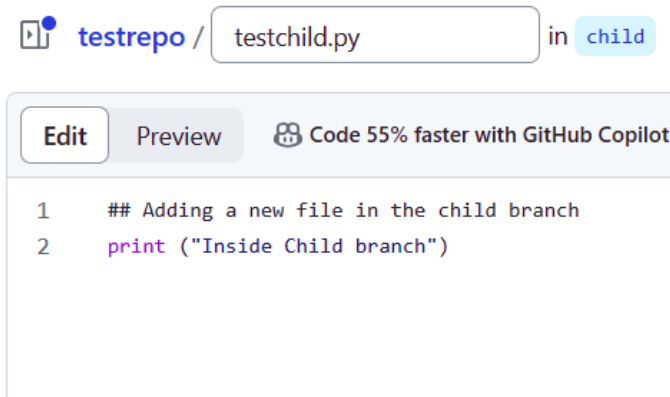
Create new file

Upload files

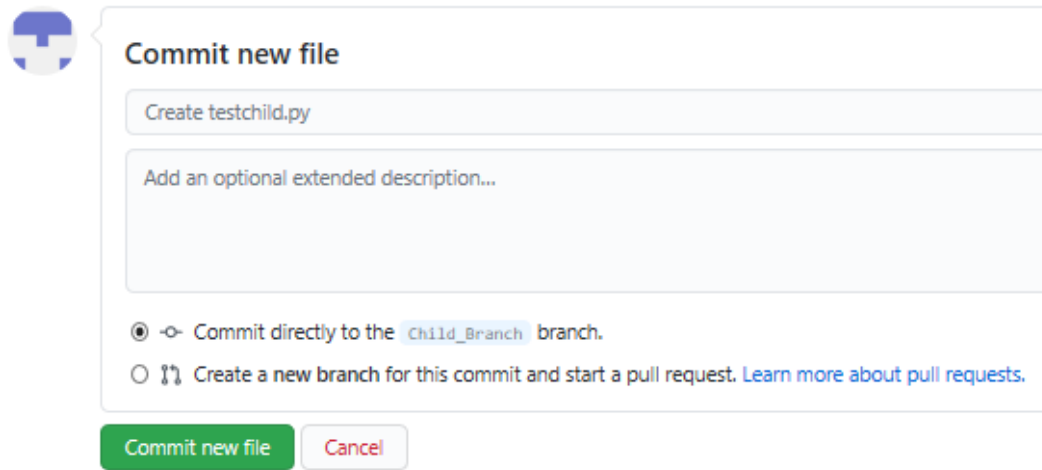
Contribute

shree1113 Add files via upload	c59a98f 3 days ago	4 commits
README.md	Update README.md	3 days ago
firstpython.py	Create firstpython.py	3 days ago
test.py.txt	Add files via upload	3 days ago

2. Type a name and extension for the file, for example, `testchild.py`, and add the following lines to the body of the new file:



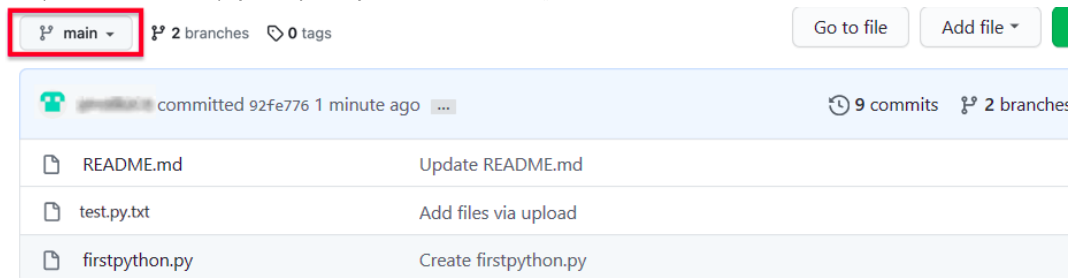
3. Scroll to the bottom of the page, add a description of the file you are about to add (note that the description is optional), and click **Commit**.



The file is added to your child branch.

3. Open a pull request

The file that you added to your child branch is not automatically added to the **main** branch. (You can check this by using the **Branch** drop-down menu to go to the **main** branch; note that there is no `testchild.py` file in the file list).

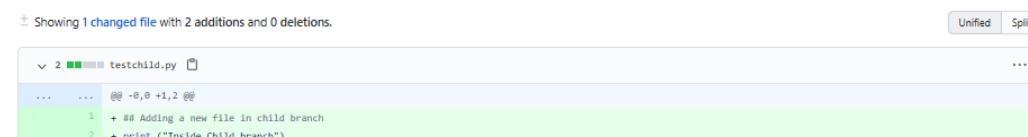


You can also compare the two branches and open a **pull request**, which will enable you to merge the changes that you've made in the child branch - in this case, adding a new file - to the **main** branch.

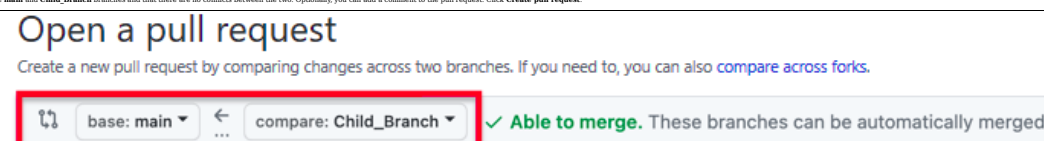
1. In **Child_Branch**, click the **Compare & pull request** button.

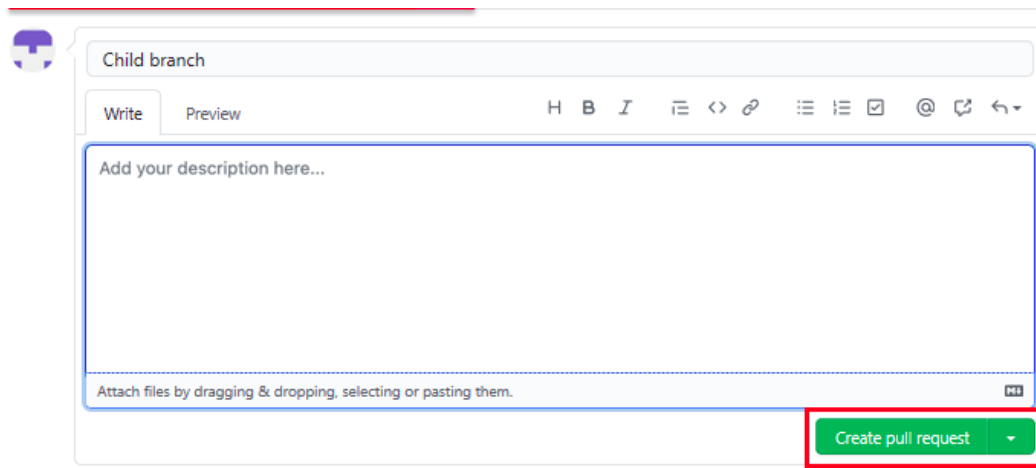


2. Scroll to the bottom of the page and note that there is **1 changed file** listed and the changes are highlighted in green.



3. Scroll up and note that GitHub is comparing the **main** and **Child_Branch** branches and that there are no conflicts between the two. Optionally, you can add a comment to the pull request. Click **Create pull request**.





Child branch

Write Preview

Add your description here...

Attach files by dragging & dropping, selecting or pasting them.

Create pull request

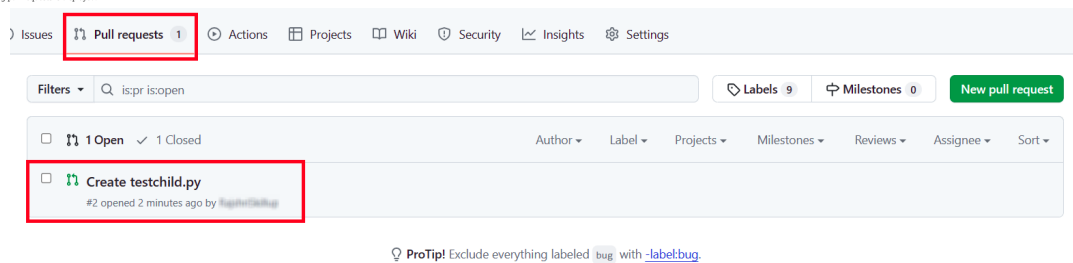
Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

The pull request has been successfully created and is now ready to be merged by a repository administrator. For all the repositories that you create, you automatically have administrative rights.

4. Merge a pull request

To merge a pull request into a project, complete the following steps:

1. Click the **Pull requests** tab. A list of pending pull requests is displayed.



Issues Pull requests 1 Actions Projects Wiki Security Insights Settings

Filters is:pr is:open Labels 9 Milestones 0 New pull request

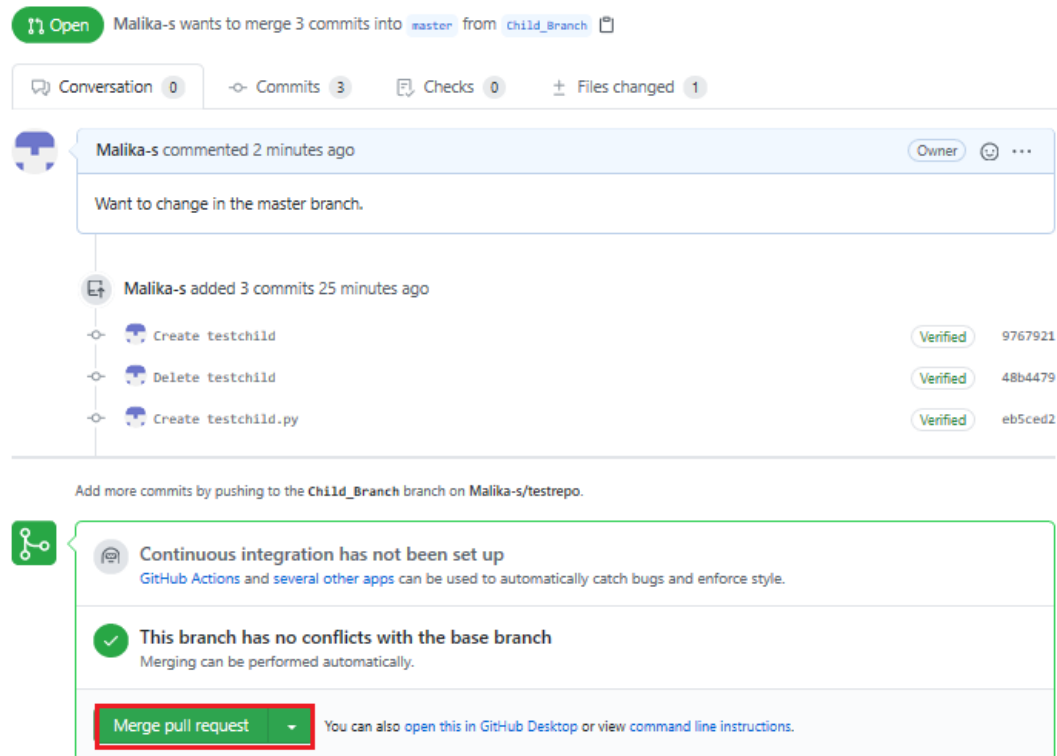
1 Open 1 Closed

Create testchild.py
#2 opened 2 minutes ago by [Malika-s](#)

ProTip! Exclude everything labeled `bug` with `-label:bug`.

2. Click the pull request that you want to merge into the main project. Review the changes, click **Merge pull request** to accept the pull request and merge the updates. (You can optionally add a comment.)

Child branch #1



Open Malika-s wants to merge 3 commits into `master` from `Child_Branch`

Conversation 0 Commits 3 Checks 0 Files changed 1

Malika-s commented 2 minutes ago

Want to change in the master branch.

Malika-s added 3 commits 25 minutes ago

- Create testchild Verified 9767921
- Delete testchild Verified 48b4479
- Create testchild.py Verified eb5ced2

Add more commits by pushing to the `Child_Branch` branch on Malika-s/testrepo.

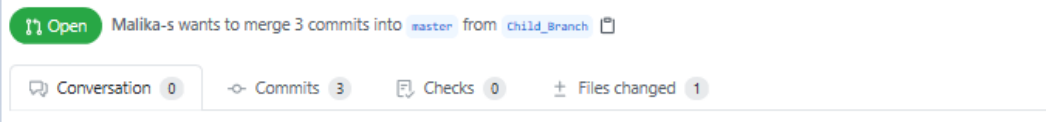
Continuous integration has not been set up
GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.

This branch has no conflicts with the base branch
Merging can be performed automatically.

Merge pull request You can also [open this in GitHub Desktop](#) or view [command line instructions](#).


3. When you click **Merge pull request**, a **Confirm merge** button is displayed. Click that button to complete the merge.

Child branch #1



Open Malika-s wants to merge 3 commits into `master` from `Child_Branch`


Conversation 0 Commits 3 Checks 0 Files changed 1





Malika-s commented 4 minutes ago

Owner 😊 ⋮



Want to change in the master branch.





Malika-s added 3 commits 27 minutes ago

 Create testchild

Verified 9767921


 Delete testchild

Verified 48b4479

 Create testchild.py

Verified eb5ced2

Add more commits by pushing to the Child_Branch branch on Malika-s/testrepo.




Merge pull request #1 from Malika-s/Child_Branch

Child branch

Confirm merge

Cancel

The pull request has now been merged successfully. Note that you can delete the child branch because your changes have been incorporated into the `main` branch.





Pull request successfully merged and closed


You're all set—the `Child_Branch` branch can be safely deleted.

Delete branch

Check the list of files in the `main` branch to confirm that it now includes the file that you added in the pull request.


 main


 2 branches

 0 tags





Go to file

Add file

 Code

 committed 7a7c576 3 minutes ago

8 commits 2 branches 0 tags

 README.md	Update README.md	3 hours ago
 test.py.txt	Add files via upload	1 hour ago
 firstpython.py	Create firstpython.py	3 hours ago
 testchild.py	Create testchild.py	21 minutes ago

Summary

Congratulations! You've now learned how to create a branch, edit and commit changes in that branch, open a pull request, and merge the pull request into your main project. We encourage you to continue to experiment with branches and pull requests to become more familiar with the concepts and processes.

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Skills Network

