# Till Test4Quality

#### **NACKADEMIN**

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## Git useful flows - Pt II

1. Flow 1: Create a new project, upload it to GitHub, add branches to the project, work on your branch, create pull requests on GitHub to merge your branch with master and synchronize the project locally (without merge conflicts).

### Steps:

- Create a new project.
- Upload it to github as a first commit.
- Create a new branch on github.
- Fetch the new branch into your local repository.
- Switch to your new branch.
- Set your new local branch to be tracked remotely.
- Work on the project by creating/editing files.
- Push your new local branch to your remote branch.
- Merge your new local branch with your master branch on github through a pull request.
- Pull the changes from your remote repository into your local repository.

# Commands and actions in sequence:

- Create a project and a remote repository with the same name.
- Initialize git by opening the terminal, navigating to your right home folder and using the command **git init.**
- \* work a bit on the project by creating new files, or editing existing ones. Perform your first commit:
  - git add.
  - git commit -m "Your commit message!"

Set the origin to the file with the command:

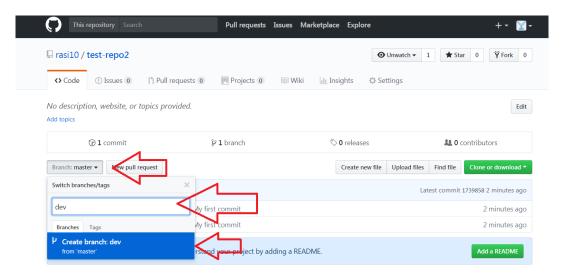
git remote add origin #URL to your repository#

upload your project with git push:



## • git push -u origin master

Create a new branch called, e.g. "dev" on github



After that, go back to git bash and use the command: git fetch --all

After that, check if the branch was fetched. use the command:

• git branch -a

After that, switch to your new branch. Use the command:

• git checkout dev (Considering that we created a branch called "dev")

After that, set the branch to be tracked. Use the command:

• git branch --set-upstream-to remotes/origin/dev

Check if your branch was set right. Use the command:

• cat .git/config (You might be able to see your branch set there)

- git add.
- git commit -m "Commit message"

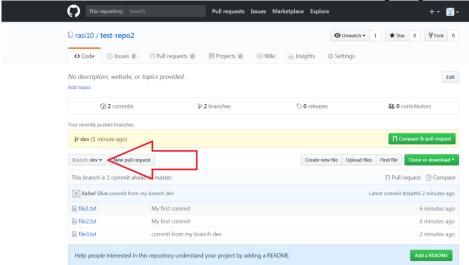
push the dev branch to your remote repository. Use the command:

• git push -u origin dev (to send the changes from your dev branch)

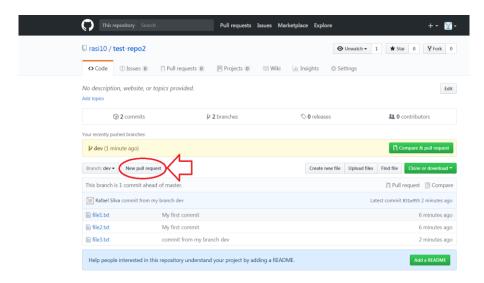
<sup>\*</sup> work a bit on the project by creating new files, or editing existing ones. Perform a commit from your dev branch.



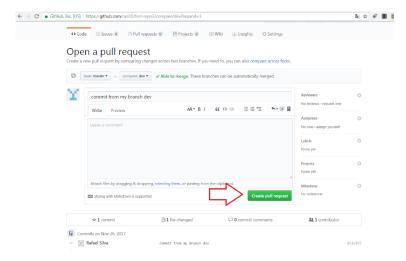
NOTE: Your branch with modifications should be now up at github.



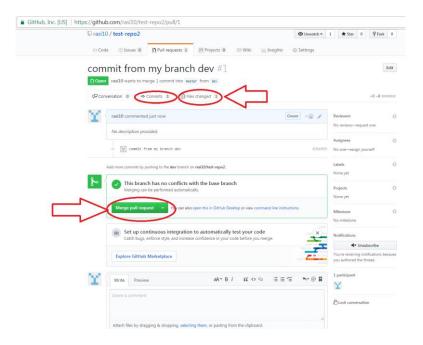
The next step is to make a pull request.







After that, check which changes were made and if they are all ok, click on Merge pull request.



Note that now, your local repository is not synchronized with the remote repository and, thus, you need to make a git pull on the terminal.

Use the command: git pull origin master

After that, use **git log** to see that the new merge is included in the logs.



After that, you can see the flow of your project by either using the command:

git log --graph --abbrev-commit --decorate --format=format:'%C(bold blue)%h%C(reset) - %C(bold green)(%ar)%C(reset) %C(white)%s%C(reset) %C(dim white)- %an%C(reset)%C(bold yellow)%d%C(reset)' -all

```
afael@ubt:~/Desktop/test-repo2
rafael@ubt:~/Desktop/test-repo2$ git log --graph --abbrev-commit --decorate --format=format:'%C(bold blue)%h %C(reset) - %C(bold green)(%ar)%C(reset) %C(white)%s%C(reset) %C(dim white)- %an%C(reset)%C(bold yellow)%d%C(reset)' --all

* 78f634b - (4 minutes ago) Merge pull request #1 from rasi10/dev - rasi10 (HEAD, origin/master, dev)

* 83le955 - (16 minutes ago) commit from my branch dev - Rafael Silva (origin/dev)

* 1739858 - (20 minutes ago) My first commit - Rafael Silva (master)
rafael@ubt:~/Desktop/test-repo2$
```

Or on github under insights->network



