# Xóchitl Analí Cabañas Mota

NAO ID: 3319

September 12th, 2025

In-Mexico Program Backend
Developer Certification

GitHub and Digital Repository

Management:

**Develop – Sprint 3** 

## **Table of contents**

Branch A	3
Branch B	4
Conflict	6
Revert	7

This report shows the process of branch management, conflict resolution, and change reversion in GitHub. Each section is briefly documented along a screenshot to have a graphic description.

#### **Branch A**

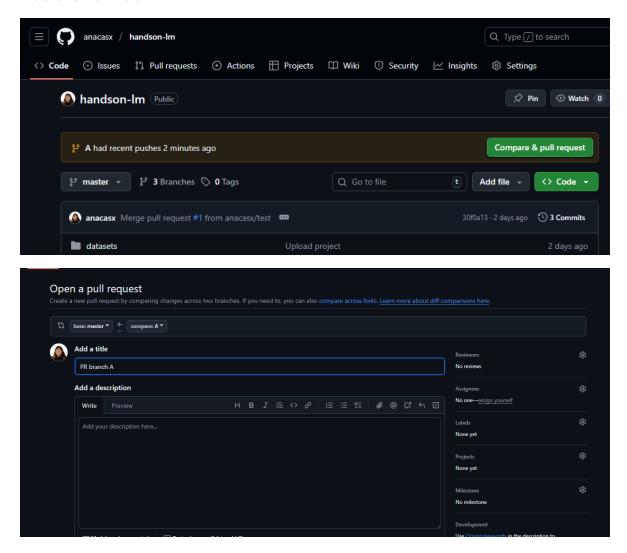
This screenshot shows the creation of branch **A** from the Master branch using Git commands. This step ensures that work on branch A can proceed independently without affecting the main codebase.

```
Xoch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml (master)
$ git checkout -b A
Switched to a new branch 'A'
```

Here, the docs.txt file is created in branch A, specifically for this branch.

```
Koch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml (A)
$ echo "Hello World" > docs.txt
Xoch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml (A)
$ git add docs.txt
warning: in the working copy of 'docs.txt', LF will be replaced by CRLF the
time Git touches it
Koch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml (A)
$ git commit -m "Add docs.txt"
[A cd20467] Add docs.txt
1 file changed, 1 insertion(+)
create mode 100644 docs.txt
Xoch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml (A)
$ git push origin A
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 277 bytes | 277.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote: Create a pull request for 'A' on GitHub by visiting:
            https://github.com/anacasx/handson-lm/pull/new/A
emote:
To https://github.com/anacasx/handson-lm.git
   [new branch]
                    A -> A
```

These images capture the process of opening a Pull Request (PR) from branch A to Master on GitHub.



#### **Branch B**

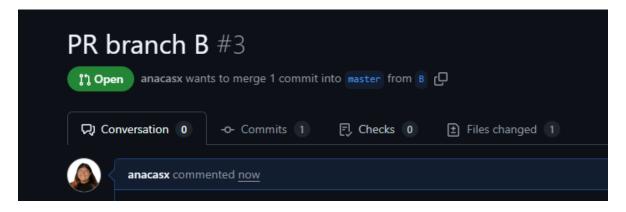
The screenshot shows the creation of branch **B** from Master. This ensures that development in branch B is independent and starts from the latest version of the main codebase.

```
Xoch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml (master)
$ git checkout -b B
Switched to a new branch 'B'
```

A different docs.txt file is created in branch B. The screenshot confirms that both branches A and B contain distinct versions of the same file

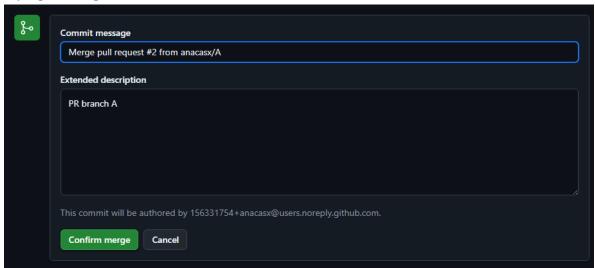
```
Och@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml (B)
$ echo "Hello Kitty" > docs.txt
Koch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml (B)
$ git add docs.txt
warning: in the working copy of 'docs.txt', LF will be replaced by CRL
 time Git touches it
Koch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml (B)
$ git commit -m "Add docs.txt"
[B 1bc8120] Add docs.txt
 1 file changed, 1 insertion(+)
 create mode 100644 docs.txt
Xoch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml (B)
$ git push origin B
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 276 bytes | 276.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'B' on GitHub by visiting:
             https://github.com/anacasx/handson-lm/pull/new/B
remote:
remote:
To https://github.com/anacasx/handson-lm.git
   [new branch]
                      B -> B
```

Here, a Pull Request is created from branch B to Master.



### Conflict

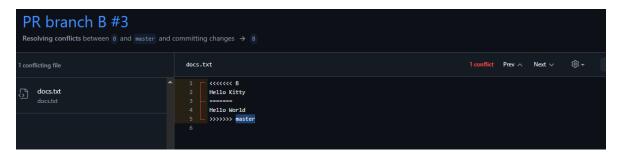
Trying to merge branch A.



GitHub lets us know there is a conflict.



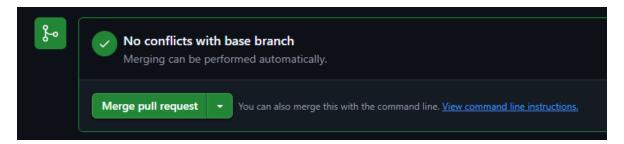
It highlights the conflict between the two versions of docs.txt. The GitHub interface displays both conflicting versions, and the resolution process involves editing and committing a unified version of the file.



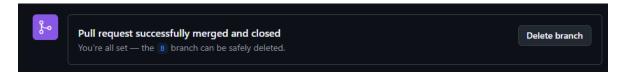
So this, a -new- version must be selected, either is the A, B or C, which would be a mix of last two.



Finally, the approval and merging of both Pull Requests (A and B) into Master can be done.



This confirms that conflicts were successfully resolved and both branches were integrated into the main project.



#### Revert

This image demonstrates the use of the git revert command in the terminal. It shows how a specific commit can be safely undone by creating a new commit that reverses its changes.

```
Xoch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml (test)

$ git log --oneline
2dba04c (HEAD -> test) Revert "update requiments.txt"
75b3316 (origin/test) update requiments.txt
7495178 (origin/main) Upload project

Xoch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml (test)
$ git revert 75b3316
```

```
Reapply "update requiments.txt"

This reverts commit 2dba04c2aa5120e916d6f732674ec1ba524959e7.

# Please enter the commit message for your changes. Lines starting # with '#' will be ignored, and an empty message aborts the commit.

# On branch test # Your branch is up to date with 'origin/test'.

# Changes to be committed:

# modified: requirements.txt
```

[test fed30aa] Reapply "update requiments.txt"
 1 file changed, 4 deletions(-)