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NAO ID: 3319

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In-Mexico Program Backend
Developer Certification

GitHub and Digital Repository

Management:

Develop – Sprint 2

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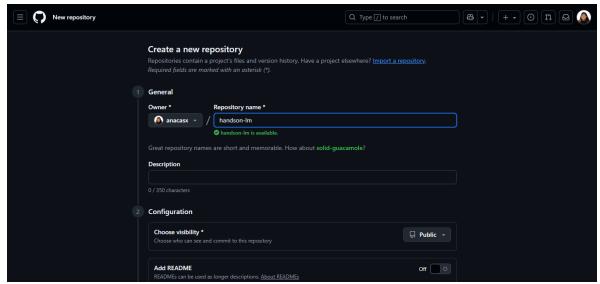
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Executive Summary

This report shows the how is to upload a local project to GitHub, create a branch for changes, modify project files, and manage a Pull Request for review and merging. Screenshots to illustrate the process are included.

Setting Up the Repository

A new repository is created on GitHub to host the project we already have locally. The repository name must match the project name.



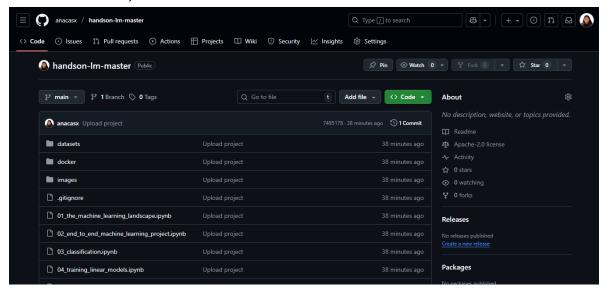
The local project is uploaded via the terminal.

```
Xoch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml-master (master)
$ git remote add origin https://github.com/anacasx/handson-lm-master.git

Xoch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml-master (master)
$ git branch -M main

Xoch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml-master (main)
$ git push -u origin main
Enumerating objects: 66, done.
Counting objects: 100% (66/66), done.
Delta compression using up to 4 threads
Compressing objects: 100% (66/66), done.
Writing objects: 100% (66/66), 14.79 MiB | 2.74 MiB/s, done.
Total 66 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/anacasx/handson-lm-master.git
* [new branch] main -> main
branch 'main' set up to track 'origin/main'.
```

Once this is done, we can view the files on GitHub.



Branching and Modifying Files

To create a new branch, use the command git checkout -b branch_name.

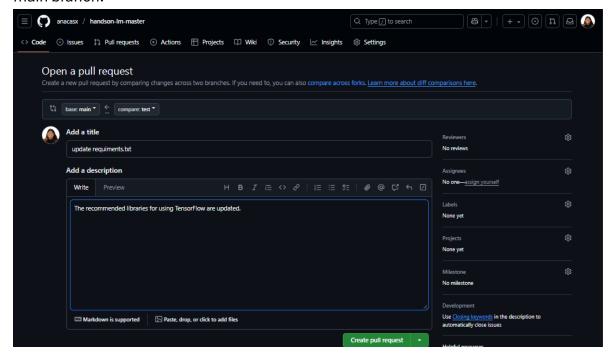
```
MINGW64:/c/Users/Xoch/Documents/handson-ml-master
                                                                        ×
Koch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml-master (main)
$ git checkout -b test
Switched to a new branch 'test'
Xoch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml-master (test)
$ git push -u origin test
Total O (delta O), reused O (delta O), pack-reused O (from O)
emote:
remote: Create a pull request for 'test' on GitHub by visiting:
            https://github.com/anacasx/handson-lm-master/pull/new/test
remote:
remote:
To https://github.com/anacasx/handson-lm-master.git
                test -> test
  [new branch]
branch 'test' set up to track 'origin/test'.
Koch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml-master (test)
```

As part of the activity, the requirements.txt file was modified, which we uploaded to GitHub in the new branch for changes.

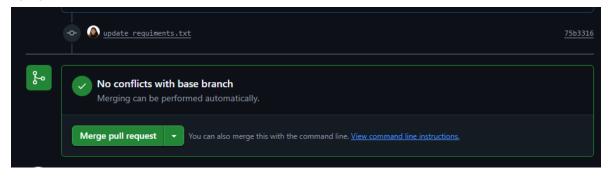
```
×
 MINGW64:/c/Users/Xoch/Documents/handson-ml-master
Xoch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml-master (test)
$ git add requirements.txt
warning: in the working copy of 'requirements.txt', LF will be replaced by CRLF
the next time Git touches it
Xoch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml-master (test)
$ git commit -m "update requiments.txt"
[test 75b3316] update requiments.txt
 1 file changed, 4 deletions(-)
Xoch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml-master (test)
$ git push origin test
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 290 bytes | 145.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/anacasx/handson-lm-master.git
   7495178...75b3316 test -> test
Koch@DESKTOP-J714T83 MINGW64 ~/Documents/handson-ml-master (test)
```

Pull Requests and Collaboration

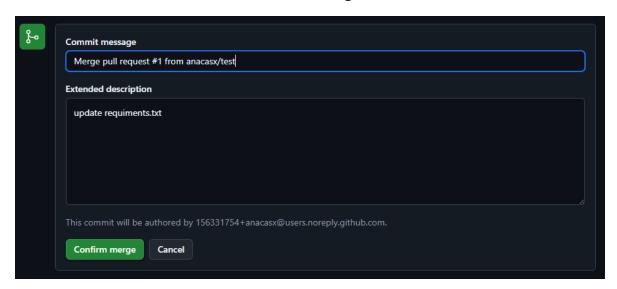
On GitHub, we can see that a Pull Request can be opened. For this, we need a title and a comment describing the change, and we can also indicate if it is relevant to the main branch.



This Pull Request is pending and visible so that one of the repository collaborators can review it.



When someone opens this request, they can see the description of the issue or correction and decide whether it warrants a merge.



Once confirmed, a notification is sent indicating that the Pull Request has been successfully merged and closed.

