Assignment-5

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Assignment 1:Initialize a new Git repository in a directory of your choice. Add a simple text file to the repository and make the first commit.

Open Terminal

Navigate to your desired directory: Use the cd command to move to the location where you want your Git repository.

$ mkdir Myfile

$ cd Myfile

Initialize the Git repository: Run the command git init. This creates a hidden folder named .git in your current directory, which holds the Git repository data.

$ git init

Create a text file

Test.txt

Stage the file for commit

$ git add .

Commit the changes

$ git commit -m " First commit"

```
C:\Joshnitha_wipro>git init
Reinitialized existing Git repository in C:/Joshnitha_wipro/.git/

C:\Joshnitha_wipro>git add .

C:\Joshnitha_wipro>git commit -m "First commit"
[feature c9fb9ec] First commit
 1 file changed, 1 insertion(+)
 create mode 100644 test.txt
```

Assignment 2: Branch Creation and Switching

Create a new branch named 'feature' and switch to it. Make changes in the 'feature' branch and commit them.

Create a new branch

$ git branch feature

Switch to feature branch

$ git checkout feature

Create some file/folder add,commit,push to the feature branch

Ex: ProductFile.txt

This will add UserData.txt file to local repo

$ git add .

Status command will show the list of files or folders added

$ git status

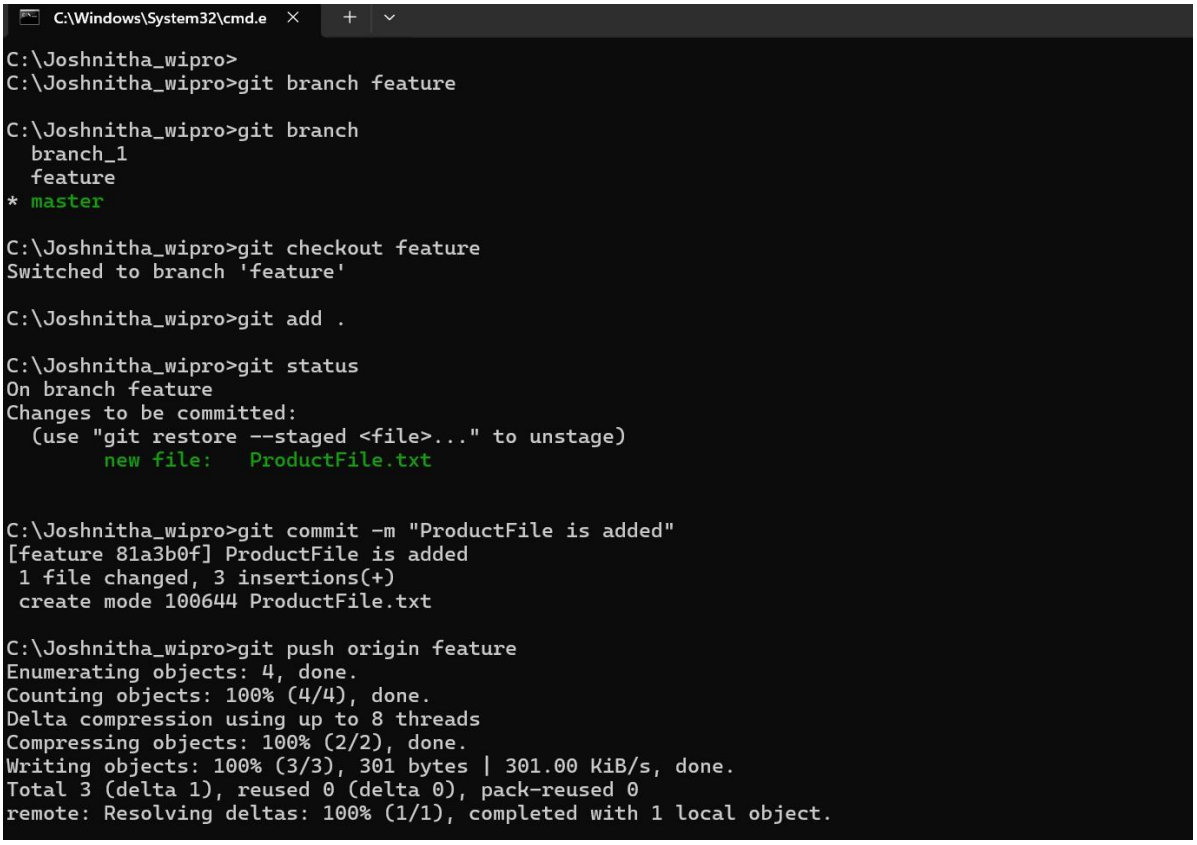
This will save ProductFile.txt in local repo

$ git commit -m “Product file added”

This will add ProductFile.txt file to the feature branch only in local repo

$ git push origin feature

Note: This UserData.txt file will not be appear in master branch untill we do merge.



Assignment 3: Feature Branches and Hotfixes

Create a 'hotfix' branch to fix an issue in the main code. Merge the 'hotfix' branch into 'main' ensuring that the issue is resolved.

Create a new branch

```
$ git branch branch_1
```

Switch to branch_1 branch

```
$ git checkout branch_1
```

Create some file/folder add,commit,push to the branch_1

Ex: UserData.txt

This will add UserData.txt file to local repo

```
$ git add .
```

Status command will show the list of files or folders added

```
$ git status
```

This will save UserData.txt in local repo

```
$ git commit -m “UserData file added”
```

This will add UserData.txt file to the feature branch only in local repo

```
$ git push origin feature
```

Note: This UserData.txt file will not be appear in master branch untill we do merge.

Then switch to master branch

```
$ git checkout master
```

Merge branch_1 to master

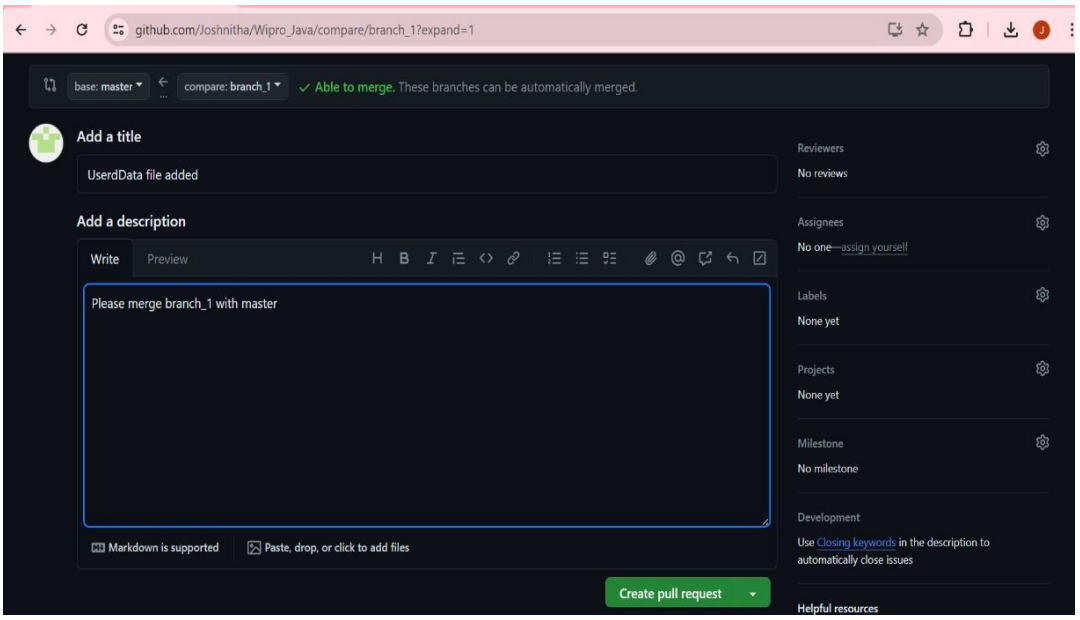
```
$ git merge branch _1
```

```
Microsoft Windows [Version 10.0.22631.3527]
(c) Microsoft Corporation. All rights reserved.

C:\Joshnitha_wipro>git branch branch_1

C:\Joshnitha_wipro>git checkout branch_1
Switched to branch 'branch_1'

C:\Joshnitha_wipro>git branch
* branch_1
  master

C:\Joshnitha_wipro>git add .

C:\Joshnitha_wipro>git status
On branch branch_1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   UserData.txt


C:\Joshnitha_wipro>git commit -m "UserdData file added"
[branch_1 ef1d2b7] UserdData file added
 1 file changed, 3 insertions(+)
 create mode 100644 UserData.txt

C:\Joshnitha_wipro>git push origin branch_1
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 345 bytes | 345.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
```

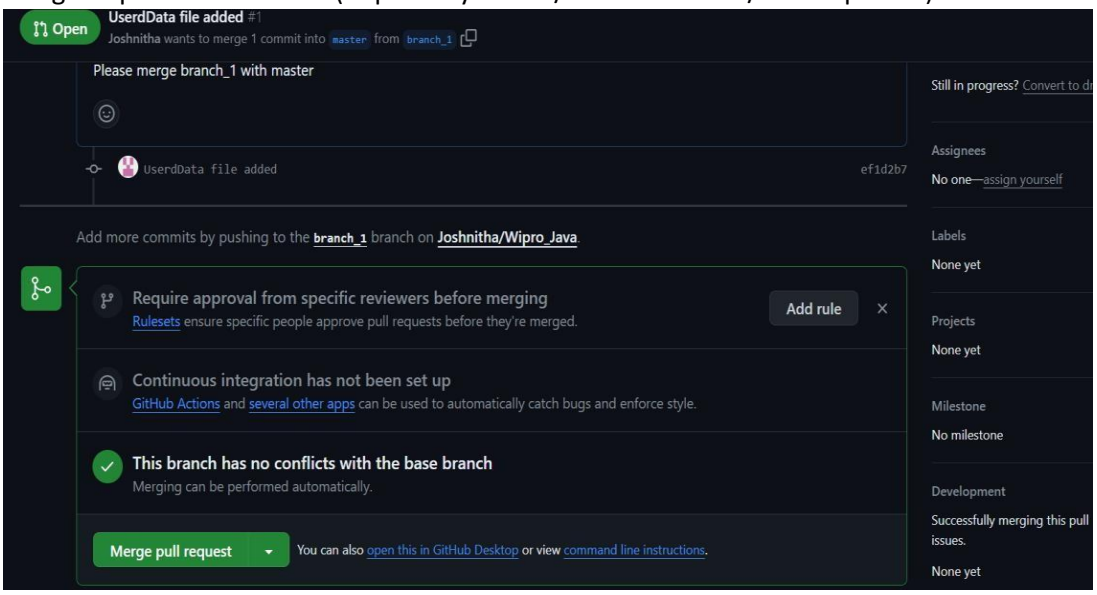
```
        new file:   UserData.txt


C:\Joshnitha_wipro>git commit -m "UserdData file added"
[branch_1 ef1d2b7] UserdData file added
 1 file changed, 3 insertions(+)
 create mode 100644 UserData.txt

C:\Joshnitha_wipro>git push origin branch_1
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 345 bytes | 345.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'branch_1' on GitHub by visiting:
remote:      https://github.com/Joshnitha/Wipro_Java/pull/new/branch_1
remote:
To https://github.com/Joshnitha/Wipro_Java.git
 * [new branch]      branch_1 -> branch_1

C:\Joshnitha_wipro>git checkout master
Switched to branch 'master'

C:\Joshnitha_wipro>git merge branch_1
Updating 038a83a..ef1d2b7
Fast-forward
 UserData.txt | 3 +++
 1 file changed, 3 insertions(+)
 create mode 100644 UserData.txt

C:\Joshnitha_wipro>
```

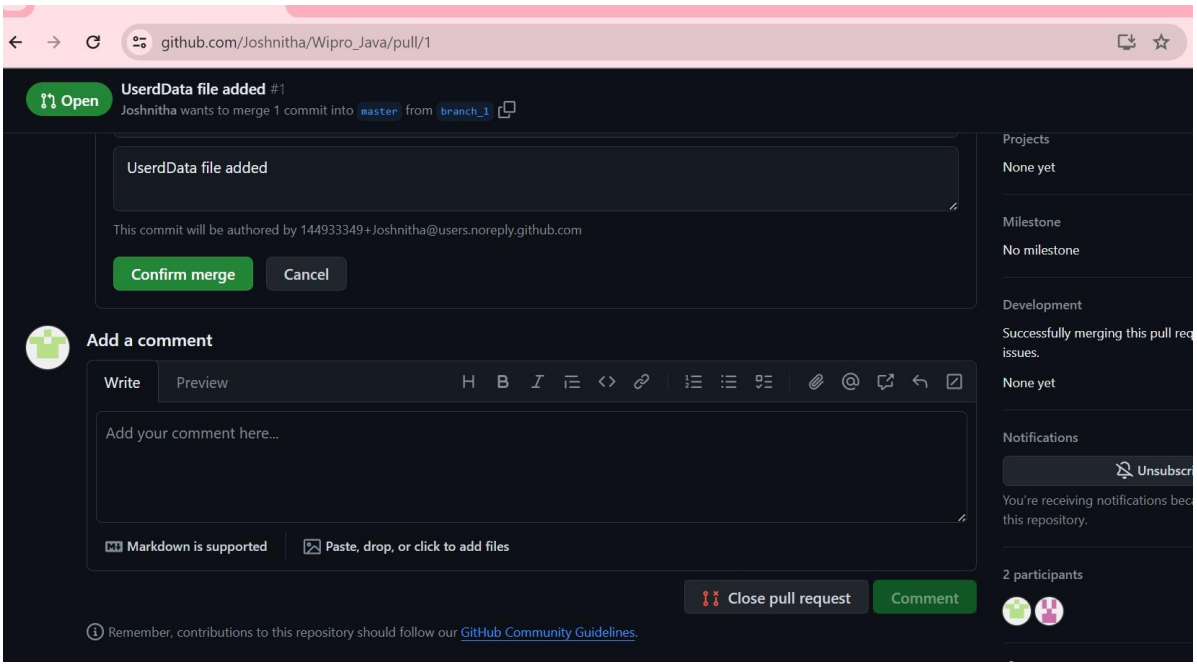
Now , when ever we do merge , it will not reflect to the origin/remote until and unless

i. pull request is rise (any developer or Team Lead can do this)

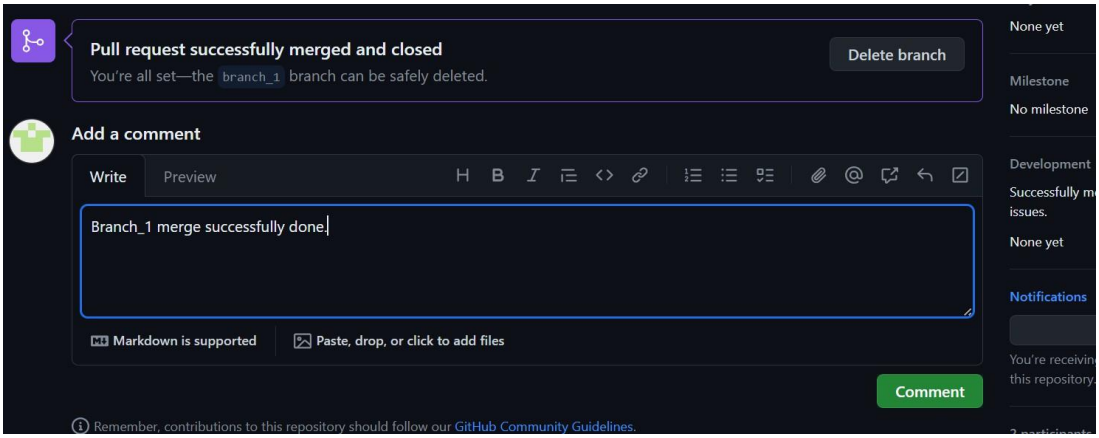


ii. merge request is confirmed (Repository owner/Product owner / senior person)



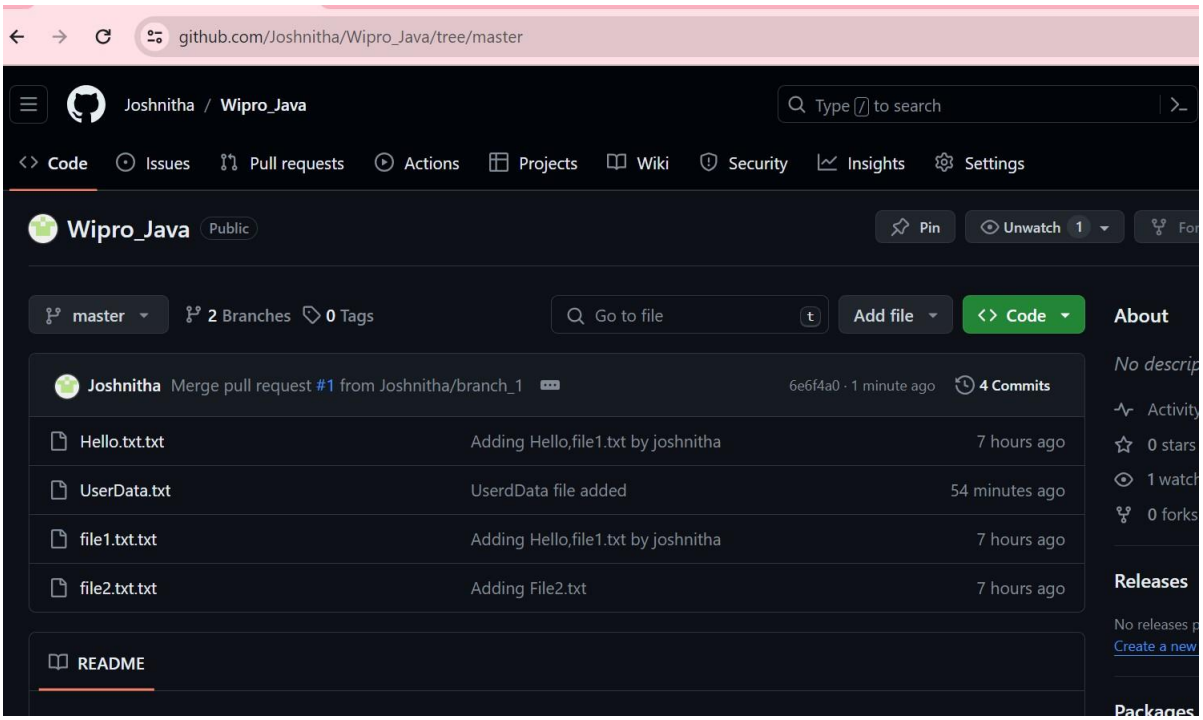


iii. comment is done (its mandatory)



Then the file which are in the branch_1 will reflect in master branch.

Here UserData.txt is the file in branch_1 .


github.com/Joshnitha/Wipro_Java/tree/master
Joshnitha / Wipro_Java
Type / to search
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
Wipro_Java
Public
Pin
Unwatch 1
master
2 Branches
0 Tags
Go to file
t
Add file
Code
About
No descrip
Activity
0 stars
1 watch
0 forks
Releases
No releases p
Create a new
Joshnitha Merge pull request #1 from Joshnitha/branch_1
6e6f4a0 · 1 minute ago
4 Commits
Hello.txt.txt
Adding Hello,file1.txt by joshnitha
7 hours ago
UserData.txt
UserdData file added
54 minutes ago
file1.txt.txt
Adding Hello,file1.txt by joshnitha
7 hours ago
file2.txt.txt
Adding File2.txt
7 hours ago
README
Packages