

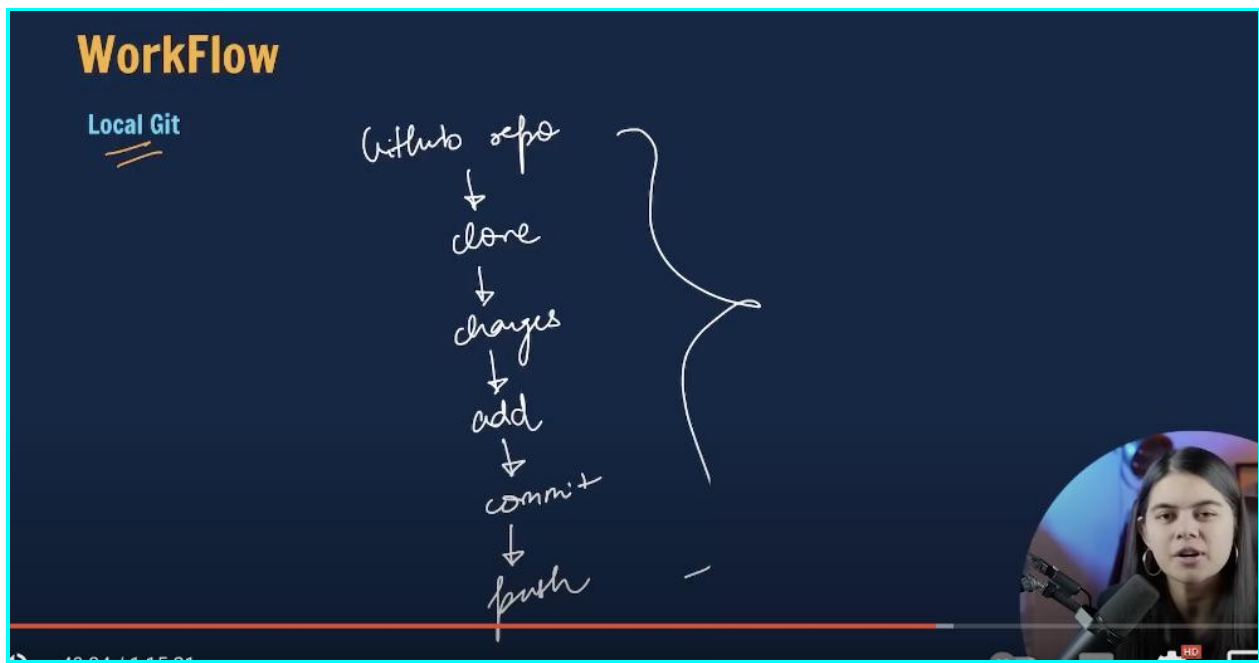
1 First Creat Repo

2. Downloading/ Settings of the normal Environment

- VS Code
- Windows (Git Bash)
- Mac (Terminal-Default Installed)

git - - version

3.Commands



`git config --global user.name "[firstname lastname]"`

`git config --global user.email "[valid-email]"`

`git config - -list`

```
(base) bijayathebe@Bijayas-MacBook-Air GitDemo % git --version
git version 2.32.0 (Apple Git-132)
(base) bijayathebe@Bijayas-MacBook-Air GitDemoBijaya % git status
On branch main
Your branch is up to date with 'origin/main'.
```

Changes not staged for commit:

```
(use "git add <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
    modified:   README.md
```

Untracked files:

```
(use "git add <file>..." to include in what will be committed)
    index.html
```

no changes added to commit (use "git add" and/or "git commit -a")

```
(base) bijayathebe@Bijayas-MacBook-Air GitDemoBijaya % git add
"index.html"
```

```
(base) bijayathebe@Bijayas-MacBook-Air GitDemoBijaya % git status
On branch main
Your branch is up to date with 'origin/main'.
```

Changes to be committed:

```
(use "git restore --staged <file>..." to unstage)
    new file:   index.html
```

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: README.md

(base) bijayathebe@Bijayas-MacBook-Air GitDemoBijaya % git add .

(base) bijayathebe@Bijayas-MacBook-Air GitDemoBijaya % git status

On branch main

Your branch is up to date with 'origin/main'.

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

modified: README.md

new file: index.html

(base) bijayathebe@Bijayas-MacBook-Air GitDemoBijaya % git commit

"index.html file is added and README.md has some new content"

error: pathspec 'index.html file is added and README.md has some new content' did not match any file(s) known to git

(base) bijayathebe@Bijayas-MacBook-Air GitDemoBijaya % git commit -m

"index.html file is added and README.md has some new content"

[main c3751e6] index.html file is added and README.md has some new content

2 files changed, 11 insertions(+), 1 deletion(-)

create mode 100644 index.html

(base) bijayathebe@Bijayas-MacBook-Air GitDemoBijaya % git status

On branch main

Your branch is ahead of 'origin/main' by 1 commit.

(use "git push" to publish your local commits)

nothing to commit, working tree clean

(base) bijayathebe@Bijayas-MacBook-Air GitDemoBijaya % git push origin main

Enumerating objects: 6, done.

Counting objects: 100% (6/6), done.

Delta compression using up to 4 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (4/4), 471 bytes | 471.00 KiB/s, done.

Total 4 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/HuksoLimbu/GitDemoBijaya.git

97e8611..c3751e6 main -> main

(base) bijayathebe@Bijayas-MacBook-Air GitDemoBijaya %

4. After Creating the “LocaRepo” folder at GitDemo “Folder”:

(base) bijayathebe@Bijayas-MacBook-Air GitDemo % cd LocalRepo

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % ls

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % ls -a

. ..

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git init

hint: Using 'master' as the name for the initial branch. This default branch name

hint: is subject to change. To configure the initial branch name to use in all

hint: of your new repositories, which will suppress this warning, call:

hint:

hint: `git config --global init.defaultBranch <name>`

hint:

hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and

hint: 'development'. The just-created branch can be renamed via this

command:

hint:

hint: `git branch -m <name>`

Initialized empty Git repository in

`/Users/bijayathebe/Downloads/GitDemo/LocalRepo/.git/`

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % `git status`

On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % `ls`

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % `ls -a`

`.` `..` `.git`

Details Operations For LocalFolders

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git status
```

On branch master

No commits yet

Untracked files:

(use "git add <file>..." to include in what will be committed)

index2.html

style.css

nothing added to commit but untracked files present (use "git add" to track)

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git add .
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git status
```

On branch master

No commits yet

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: index2.html

new file: style.css

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git commit -m
```

"Index2.html & tyle.css files are created."

```
[master (root-commit) 2304658] Index2.html & tyle.css files are created.
```

2 files changed, 6 insertions(+)

create mode 100644 index2.html

```
create mode 100644 style.css
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git status
```

```
On branch master
```

```
nothing to commit, working tree clean
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git push origin  
main
```

```
error: src refspec main does not match any
```

```
error: failed to push some refs to 'origin'
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git push origin  
main
```

```
error: src refspec main does not match any
```

```
error: failed to push some refs to 'origin'
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git remote add  
origin https://github.com/HuksoLimbu/LocalRepoFolders.git
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git status
```

```
On branch master
```

```
nothing to commit, working tree clean
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git remote -v
```

```
origin https://github.com/HuksoLimbu/LocalRepoFolders.git (fetch)
```

```
origin https://github.com/HuksoLimbu/LocalRepoFolders.git (push)
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch
```

```
* master
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch -M main
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git satus
```

```
git: 'satus' is not a git command. See 'git --help'.
```

The most similar command is

status

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch
```

```
* main
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git push -u origin  
main
```

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% (4/4), 356 bytes | 356.00 KiB/s, done.

Total 4 (delta 0), reused 0 (delta 0), pack-reused 0

To <https://github.com/HuksoLimbu/LocalRepoFolders.git>

```
* [new branch]    main -> main
```

Branch 'main' set up to track remote branch 'main' from 'origin'.

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo %
```

After Adding README.md File:-

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % touch  
README.md
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git status
```

On branch main

Your branch is up to date with 'origin/main'.

Untracked files:

(use "git add <file>..." to include in what will be committed)

README.md

nothing added to commit but untracked files present (use "git add" to track)

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git add .
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git status
```

On branch main

Your branch is up to date with 'origin/main'.

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: README.md

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git commit -m
```

```
"README.me for Local Folder"
```

```
[main 92b2bf0] README.me for Local Folder
```

```
1 file changed, 1 insertion(+)
```

```
create mode 100644 README.md
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git status
```

On branch main

Your branch is ahead of 'origin/main' by 1 commit.

(use "git push" to publish your local commits)

nothing to commit, working tree clean

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git push
```

```
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), 366 bytes | 366.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

To <https://github.com/HuksoLimbu/LocalRepoFolders.git>

2304658..92b2bf0 main -> main

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git status

On branch main

Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git staatus

git: 'staatus' is not a git command. See 'git --help'.

The most similar command is

status

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git status

On branch main

Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git add .

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git commit -m

"Fixind # markup"

On branch main

Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git push

Everything up-to-date

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git status
```

On branch main

Your branch is up to date with 'origin/main'.

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: README.md

no changes added to commit (use "git add" and/or "git commit -a")

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git add .
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git commit -m
```

"Fixind # markup"

```
[main 577a542] Fixind # markup
```

1 file changed, 1 insertion(+), 1 deletion(-)

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git push
```

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 4 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 358 bytes | 358.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

To <https://github.com/HuksoLimbu/LocalRepoFolders.git>

92b2bf0..577a542 main -> main

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo %
```

Init Command

init - used to create a new git repo

`git init`

`git remote add origin <- link ->`

`git remote -v` (to verify remote)

`git branch` (to check branch)

`git branch -M main` (to rename branch)

`git push origin main`



Init Command

init - used to create a new git repo

`git init`

`git remote add origin <- link ->`

`git remote -v` (to verify remote)

`git branch` (to check branch)

`git branch -M main` (to rename branch)

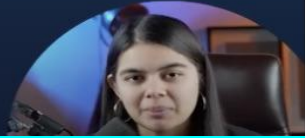
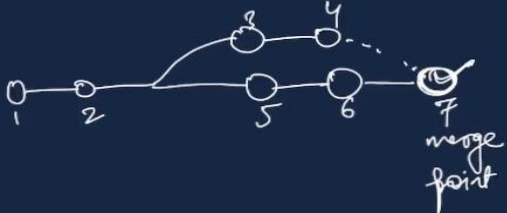
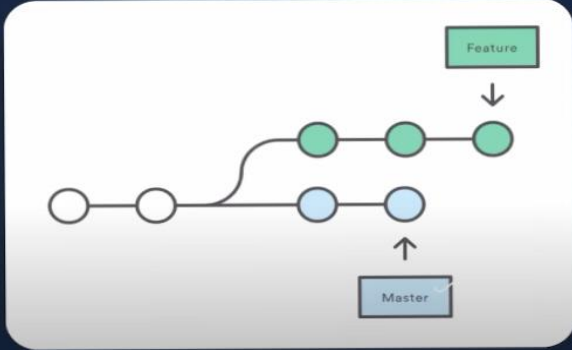
`git push origin main`

git push -u origin main
↓
set upstream




5.Branches in Git

Git Branches



Branch Commands

```
git branch      (to check branch)
git branch -M main  (to rename branch)
git checkout <- branch name ->      (to navigate)
git checkout -b <- new branch name ->  (to create new branch)
git branch -d <- branch name ->      (to delete branch)
```



```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch
```

```
* main
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git checkout -b
feature1
```

```
Switched to a new branch 'feature1'
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch
```

```
* feature1
```

main

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git checkout main
```

Switched to branch 'main'

Your branch is up to date with 'origin/main'.

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch
```

feature1

* main

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git checkout -b
```

```
feature2
```

Switched to a new branch 'feature2'

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch
```

feature1

* feature2

main

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git chekout
```

feature1

git: 'chekout' is not a git command. See 'git --help'.

The most similar command is

checkout

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch
```

feature1

* feature2

main

Creating Various Features Branches

```
→ (base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch
feature1
feature2
* main

→ (base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch -d
feature2
Deleted branch feature2 (was 577a542).

→ (base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch
feature1
* main
```

Pushing Steps or Pathway:

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch
feature1
* main

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git checkout
feature1
Switched to branch 'feature1'

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch
* feature1
main

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git status
On branch feature1
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
```

modified: README.md

no changes added to commit (use "git add" and/or "git commit -a")

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git add .

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git commit
-m "New feature added at Branch-'feature1'"

[feature1 3332380] New feature added at Branch-'feature1'

1 file changed, 2 insertions(+), 1 deletion(-)

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git push

fatal: The current branch feature1 has no upstream branch.

To push the current branch and set the remote as upstream, use

git push --set-upstream origin feature1

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git status

On branch feature1

nothing to commit, working tree clean

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git checkout
main

Switched to branch 'main'

Your branch is up to date with 'origin/main'.

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch
feature1

* main

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git checkout
feature1

Switched to branch 'feature1'


```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git checkout  
main
```

```
Switched to branch 'main'
```

```
Your branch is up to date with 'origin/main'.
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch  
feature1
```

```
* main
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git push  
origin feature1
```

```
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), 412 bytes | 412.00 KiB/s, done.
```

```
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
```

```
remote:
```

```
remote: Create a pull request for 'feature1' on GitHub by visiting:
```

```
remote:
```

```
https://github.com/HuksoLimbu/LocalRepoFolders/pull/new/feature1
```

```
remote:
```

```
To https://github.com/HuksoLimbu/LocalRepoFolders.git
```

```
* [new branch]    feature1 -> feature1
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git
```

Merging the various Features Branches:-

METHOD-1: COMPARING DIFFERENCES IN BRANCHES:

Merging Code



Way 1

`git diff <- branch name->` (to compare commits, branches, files & more)

`git merge <- branch name->` (to merge 2 branches)

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch  
feature1
```

```
* main
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git diff feature1
```

```
diff --git a/README.md b/README.md
```

```
index abade67..4e1766f 100644
```

```
--- a/README.md
```

```
+++ b/README.md
```

```
@@ -1,2 +1 @@
```

```
-# This is my LocalRepo.
```

```
-# This is my new features in feature1 Branch of Main.
```

```
\ No newline at end of file
```

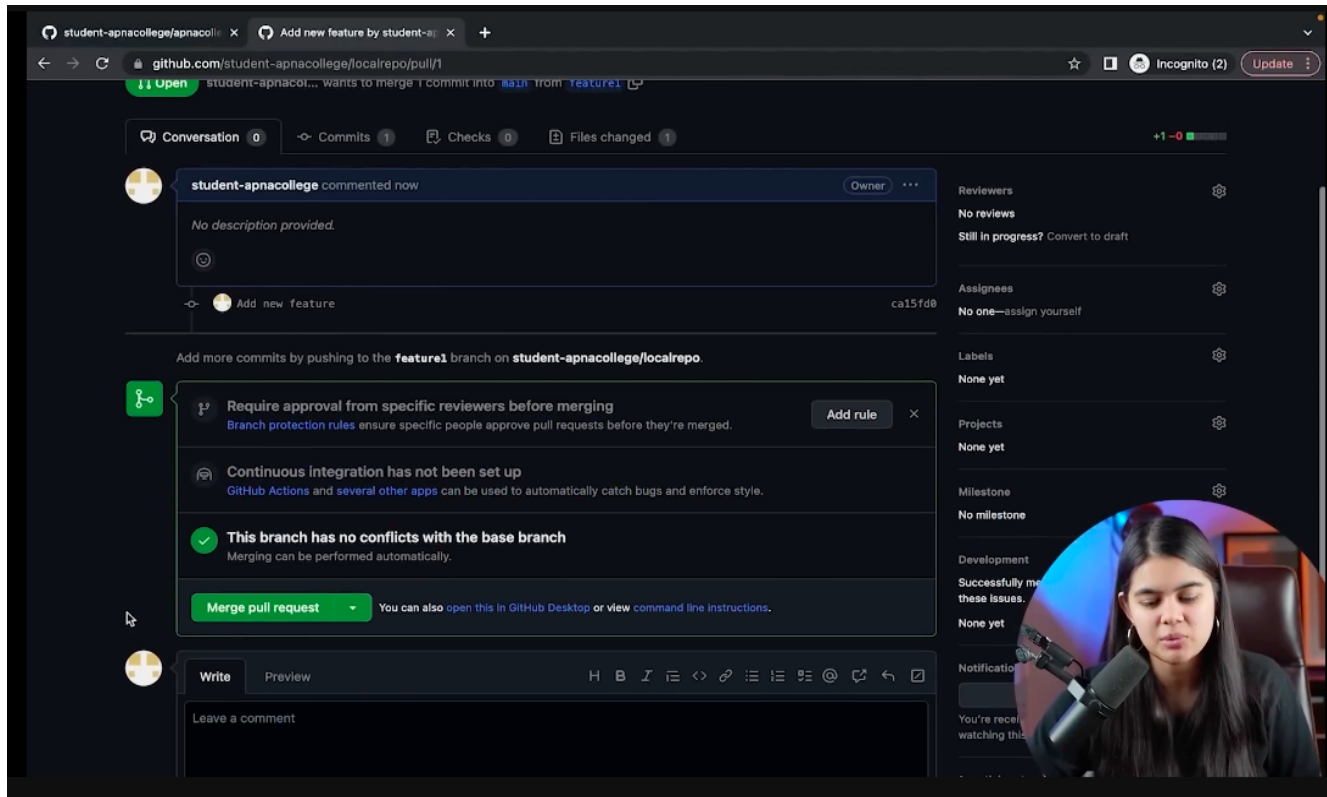
```
+# This is my LocalRepo
```

```
\ No newline at end of file
```

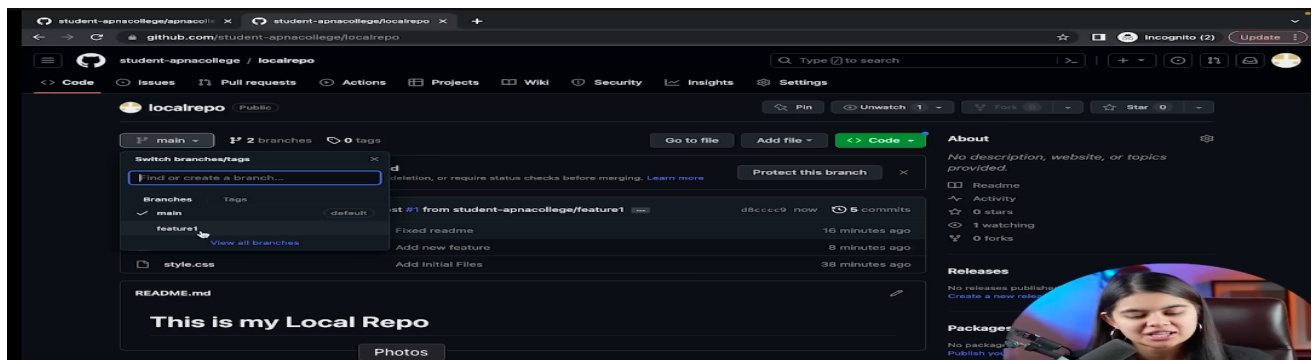
```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git merge main
```

METHOD-2: CREATING PULL REQUESTS(PR) METHODS:

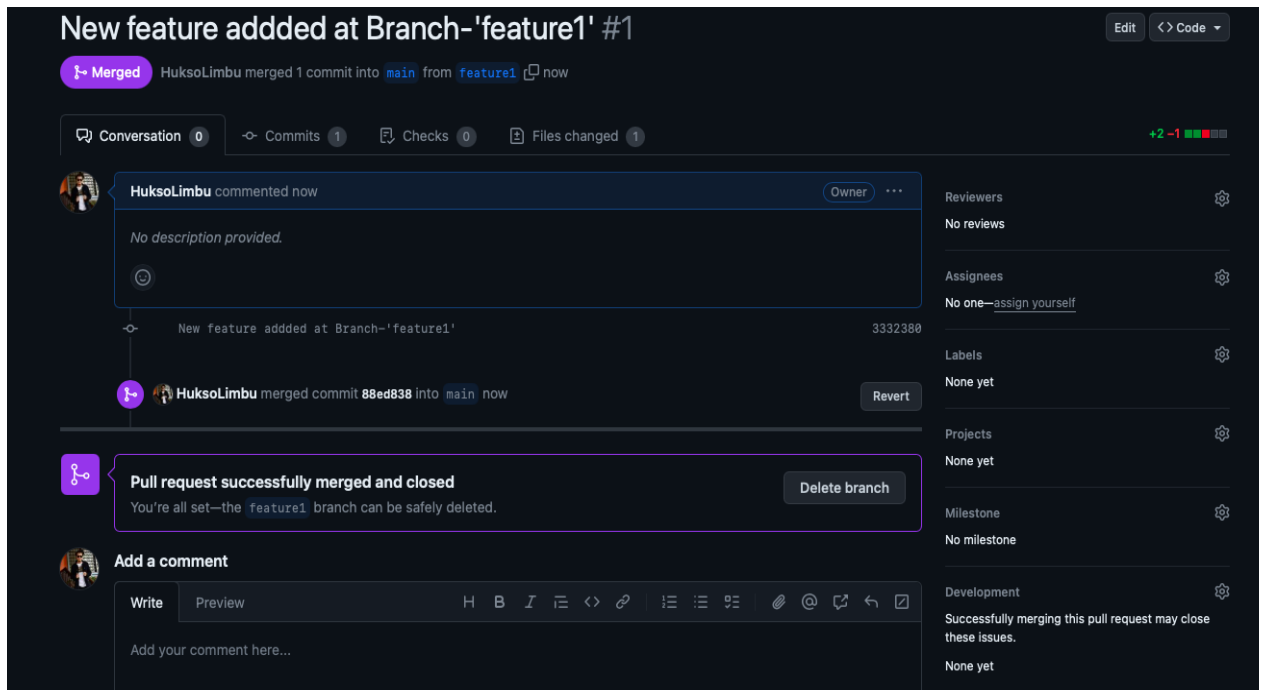
- First go to features and select pull request Green Button than such windows will appear:



- Then simply you can merge or write comment at comment section than merge them:



- Than finally you will see the modified version of your file at main folder:



6.Pull all Changes at Local Device:

Pull Command

```
git pull origin main
```

used to fetch and download content from a remote repo and immediately update the local repo to match that content.

→ (base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch
feature1
* main

```
→ (base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git checkout
feature1
Switched to branch 'feature1'

→ (base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git checkout
main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

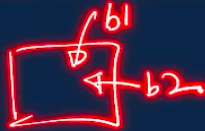
→ (base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git pull origin
main
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (1/1), 650 bytes | 216.00 KiB/s, done.
From https://github.com/HuksoLimbu/LocalRepoFolders
* branch      main      -> FETCH_HEAD
   577a542..88ed838  main    -> origin/main
Updating 577a542..88ed838
Fast-forward
 README.md | 3 ++-
1 file changed, 2 insertions(+), 1 deletion(-)
```

7.RESOLVING MERGE CONFLICT:-

Resolving Merge Conflicts

An event that takes place when Git is unable to automatically resolve differences in code between two commits.

1) PR ✓
2) Git merge ✓



```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git status
```

On branch feature1

You have unmerged paths.

(fix conflicts and run "git commit")

(use "git merge --abort" to abort the merge)

Unmerged paths:

(use "git add <file>..." to mark resolution)

both modified: index2.html

no changes added to commit (use "git add" and/or "git commit -a")

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git add .
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git status
```

On branch feature1

All conflicts fixed but you are still merging.

(use "git commit" to conclude merge)

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git commit  
-m"Another DROPDOWN"
```

```
[feature1 44b1966] Another DROPDOWN
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git status
```

```
On branch feature1
```

```
nothing to commit, working tree clean
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch
```

```
* feature1
```

```
main
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git checkout main
```

```
Switched to branch 'main'
```

```
Your branch is ahead of 'origin/main' by 1 commit.
```

```
(use "git push" to publish your local commits)
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git merge feature1
```

```
Updating f201941..44b1966
```

```
Fast-forward
```

```
index2.html | 4 ++--
```

```
1 file changed, 2 insertions(+), 2 deletions(-)
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch
```

```
feature1
```

```
* main
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git merge feature1
```

```
Already up to date.
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch
```

```
feature1
```

```
* main
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git push
```

Enumerating objects: 11, done.

Counting objects: 100% (11/11), done.

Delta compression using up to 4 threads

Compressing objects: 100% (7/7), done.

Writing objects: 100% (7/7), 882 bytes | 441.00 KiB/s, done.

Total 7 (delta 2), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (2/2), done.

To <https://github.com/HuksoLimbu/LocalRepoFolders.git>

f059c1b..44b1966 main -> main

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch

feature1

* main

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git add .

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git commit -m

"BUTTON Added."

[main 4e8751a] BUTTON Added.

1 file changed, 1 insertion(+), 5 deletions(-)

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git status

On branch main

Your branch is ahead of 'origin/main' by 1 commit.

(use "git push" to publish your local commits)

nothing to commit, working tree clean

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git checkout

feature1

Switched to branch 'feature1'

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git diff main


```
diff --git a/index2.html b/index2.html
```

```
index 360b9ab..956f49d 100644
```

```
--- a/index2.html
```

```
+++ b/index2.html
```

```
@@ -3,5 +3,6 @@
```

```
</p>
```

```
<p>
```

```
- Added New Feature(BUTTON).
```

```
+ Added New Feature(+DROPDOWN).
```

```
</p>
```

```
+
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git merge main
```

```
Updating 44b1966..4e8751a
```

```
error: Your local changes to the following files would be overwritten by  
merge:
```

```
    index2.html
```

```
Please commit your changes or stash them before you merge.
```

```
Aborting
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git add .
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git commit
```

```
-m"DROPDOWN Added."
```

```
[feature1 7f50b13] DROPDOWN Added.
```

```
1 file changed, 3 deletions(-)
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git diff main
```

```
diff --git a/index2.html b/index2.html
```

```
index 360b9ab..956f49d 100644
```

--- a/index2.html

+++ b/index2.html

@@ -3,5 +3,6 @@

</p>

<p>

- Added New Feature(BUTTON).

+ Added New Feature(+DROPDOWN).

</p>

+

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git checkout main

Switched to branch 'main'

Your branch is ahead of 'origin/main' by 1 commit.

(use "git push" to publish your local commits)

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git status

On branch main

Your branch is ahead of 'origin/main' by 1 commit.

(use "git push" to publish your local commits)

nothing to commit, working tree clean

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git branch

feature1

* main

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git merge feature1

Auto-merging index2.html

CONFLICT (content): Merge conflict in index2.html

Automatic merge failed; fix conflicts and then commit the result.

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git add .
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git commit
-m"Accepted Both"
[main e59b2d1] Accepted Both
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git diff feature1
diff --git a/index2.html b/index2.html
index 956f49d..92309b1 100644
--- a/index2.html
+++ b/index2.html
@@ -3,6 +3,6 @@
</p>

<p>
- Added New Feature(+DROPDOWN).
+ Added New Feature(BUTTON).
</p>
```

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git push
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 4 threads
Compressing objects: 100% (9/9), done.
Writing objects: 100% (9/9), 961 bytes | 480.00 KiB/s, done.
Total 9 (delta 4), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (4/4), completed with 1 local object.
To https://github.com/HuksoLimbu/LocalRepoFolders.git
44b1966..e59b2d1 main -> main
```

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git push origin feature1

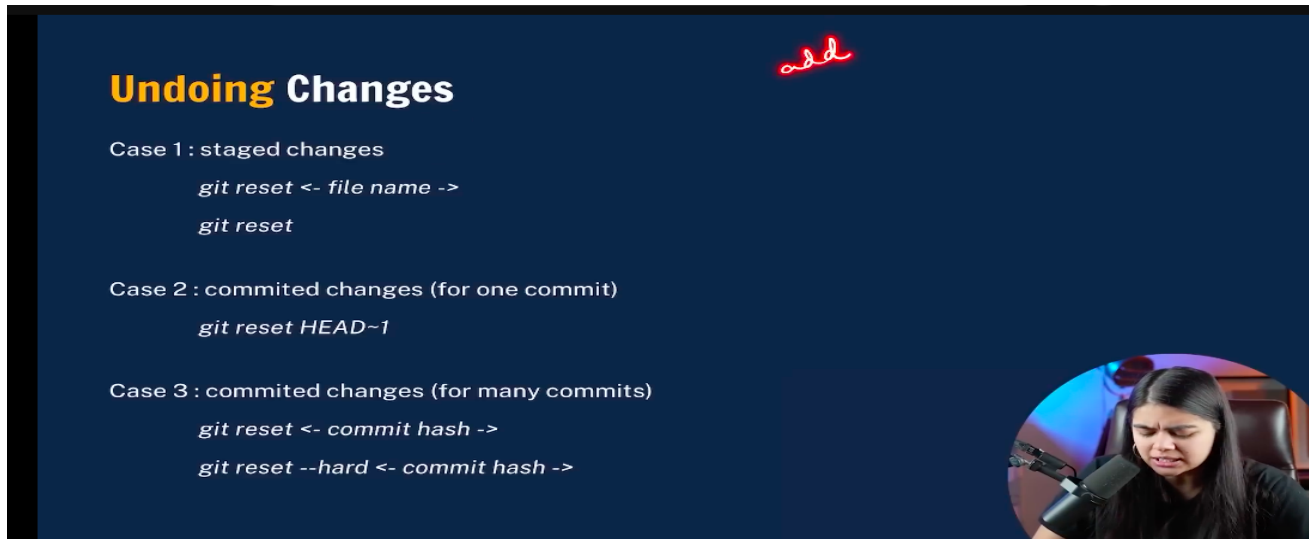
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/HuksoLimbu/LocalRepoFolders.git

1dbe3f8..7f50b13 feature1 -> feature1

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo %

(8) UNDOING ACTIVITIES AT FILES IN GITHUB:-



Undoing Changes

Case 1 : staged changes

```
git reset <- file name ->
git reset
```

Case 2 : committed changes (for one commit)

```
git reset HEAD~1
```

Case 3 : committed changes (for many commits)

```
git reset <- commit hash ->
git reset --hard <- commit hash ->
```

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git reset HEAD~1

Unstaged changes after reset:

M index2.html

(base) bijayathebe@Bijayas-MacBook-Air LocalRepo % git log

commit 7f50b13b3afd626aabd1534b139013f1b88408a5 (HEAD ->

feature1, origin/feature1)

Author: "HuksoLimbu" <"huksohang123@gmail.com">

Date: Wed Nov 8 00:48:08 2023 +0545

DROPDOWN Added.

commit 44b19661aac768b5e8fb693554f1df74e6b56417

Merge: 8e6e4b1 f201941

Author: "HuksoLimbu" <"huksohang123@gmail.com">

Date: Wed Nov 8 00:41:57 2023 +0545

Another DROPDOWN

:

(base) bijayathebe@Bijayas-MacBook-Air LocalRepoFolders % git log
commit 5ca64a77c92fa7e519a63f9a1a05884c5c82d448 (HEAD -> main,
origin/main, origin/HEAD)

Merge: 3d78b1e bf4c4ef

Author: Bijaya Thebe Limbu <huksohang123@gmail.com>

Date: Wed Nov 8 18:43:04 2023 +0545

Add Both Button

commit 3d78b1ea2a374fc6c94b622b138bbf0d79bc7e23

Author: Bijaya Thebe Limbu <huksohang123@gmail.com>

Date: Wed Nov 8 18:41:04 2023 +0545

Added ButtonYES

(base) bijayathebe@Bijayas-MacBook-Air LocalRepoFolders % git reset

3d78b1ea2a374fc6c94b622b138bbf0d79bc7e23

Unstaged changes after reset:

M index2.html

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepoFolders % git reset  
--hard 3d78b1ea2a374fc6c94b622b138bbf0d79bc7e23
```

HEAD is now at 3d78b1e Added ButtonYES

```
(base) bijayathebe@Bijayas-MacBook-Air LocalRepoFolders %
```

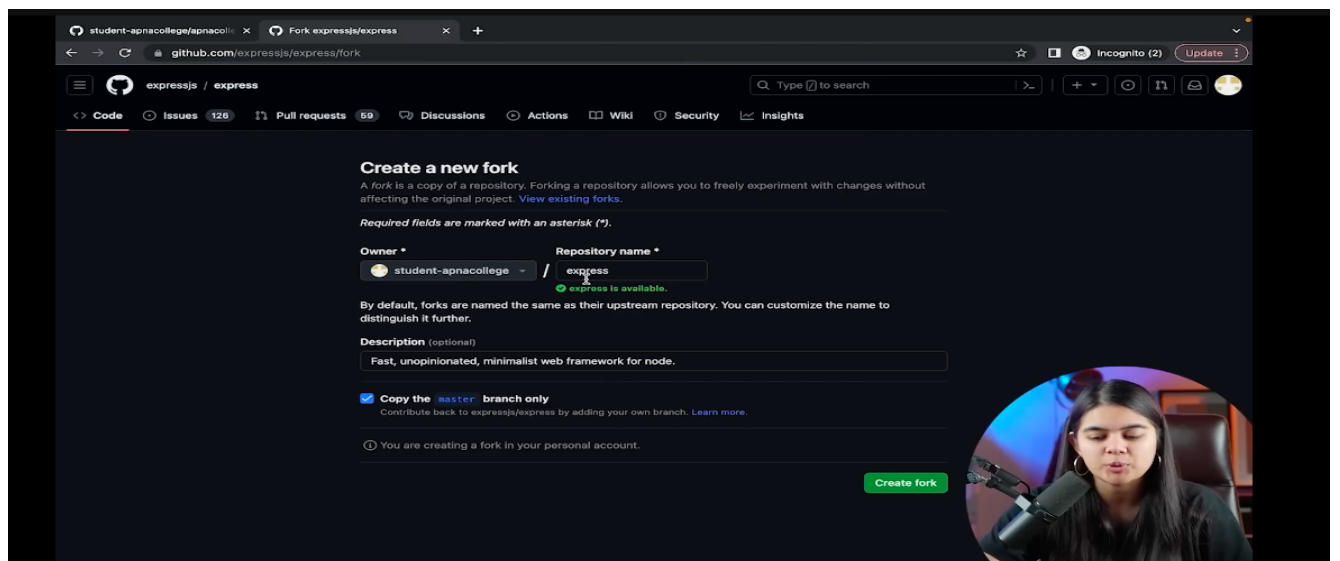
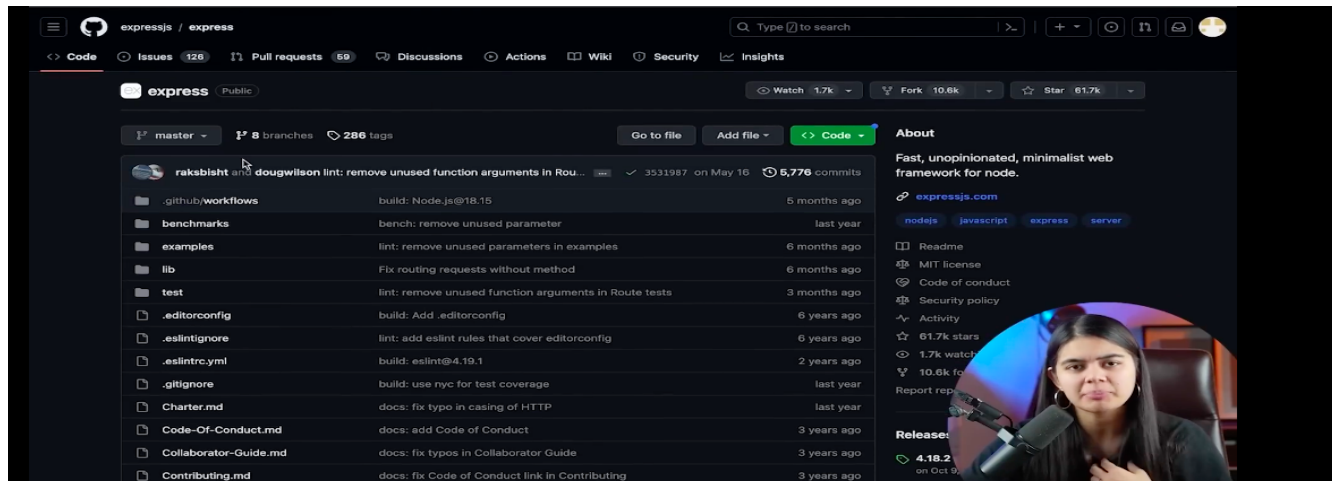
(9) Handling Projects with FORKS:-

Fork

A fork is a new repository that shares code and visibility settings with the original “upstream” repository.

Fork is a rough copy.

To create a fork, first go to your Github and search project repositories you are interested in. Then, go to the fork button at the top right side of the repo. Then you can have the project repo. Some of the ss are given below how it looks like:-



But KEEP in mind that, merge only useful and valid content only to other projects.