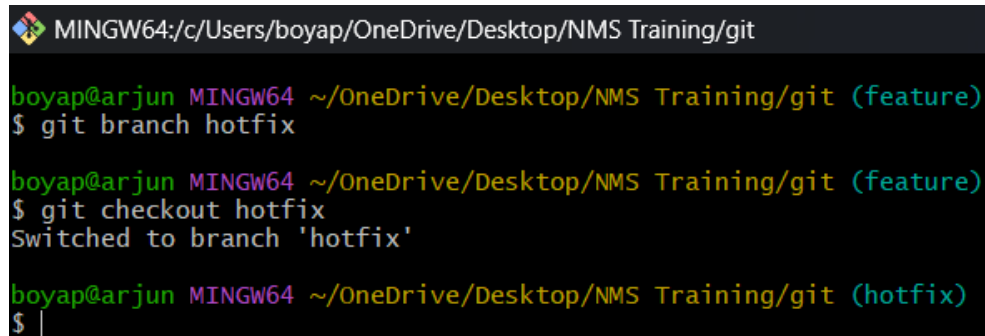# Assignment-3

Name: Boyapati Durgamallikarjuna
RPS UserId: 21951

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.

Creating and Switched to the 'hotfix' branch;

Fixing the Issue/Update the Existed file:

- Updated the existed Test.txt file and save the changes.
- Then pushed the updated file into the hotfix branch

```
boyap@arjun MINGW64 ~/OneDrive/Desktop/NMS Training/git (feature)
$ git branch hotfix

boyap@arjun MINGW64 ~/OneDrive/Desktop/NMS Training/git (feature)
$ git checkout hotfix
Switched to branch 'hotfix'

boyap@arjun MINGW64 ~/OneDrive/Desktop/NMS Training/git (hotfix)
$ git status
On branch hotfix
nothing to commit, working tree clean

boyap@arjun MINGW64 ~/OneDrive/Desktop/NMS Training/git (hotfix)
$ git status
On branch hotfix
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:   Test.txt

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

boyap@arjun MINGW64 ~/OneDrive/Desktop/NMS Training/git (hotfix)
$ git add .

boyap@arjun MINGW64 ~/OneDrive/Desktop/NMS Training/git (hotfix)
$ git status
On branch hotfix
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   Test.txt


boyap@arjun MINGW64 ~/OneDrive/Desktop/NMS Training/git (hotfix)
$ git commit -m "Updated Test.file"
[hotfix 51f9826] Updated Test.file
 1 file changed, 3 insertions(+), 1 deletion(-)

boyap@arjun MINGW64 ~/OneDrive/Desktop/NMS Training/git (hotfix)
$ git push origin main
To https://github.com/arjun7095/First-repo.git
 ! [rejected]        main -> main (fetch first)
error: failed to push some refs to 'https://github.com/arjun7095/First-repo.git'
hint: Updates were rejected because the remote contains work that you do not
hint: have locally. This is usually caused by another repository pushing to
hint: the same ref. If you want to integrate the remote changes, use
hint: 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

boyap@arjun MINGW64 ~/OneDrive/Desktop/NMS Training/git (hotfix)
$ git push origin hotfix
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 387 bytes | 387.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'hotfix' on GitHub by visiting:
remote:      https://github.com/arjun7095/First-repo/pull/new/hotfix
remote:
To https://github.com/arjun7095/First-repo.git
 * [new branch]      hotfix -> hotfix
```

Merging into main branch:

- When we want merge the files into main branch, we must be in the main branch which is shown below
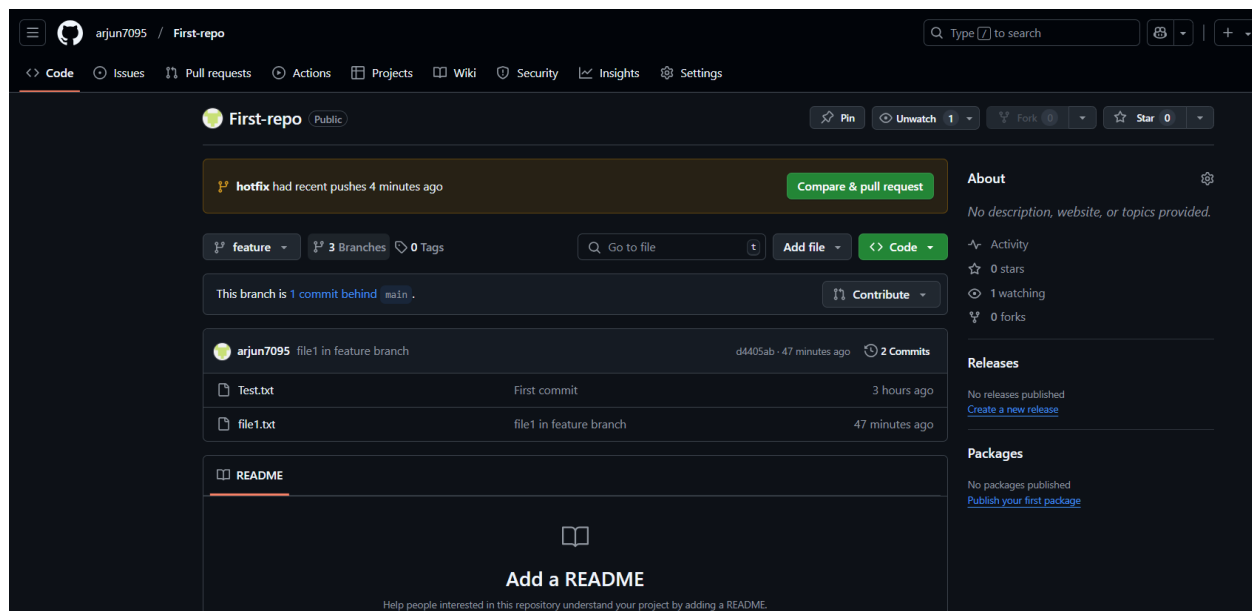

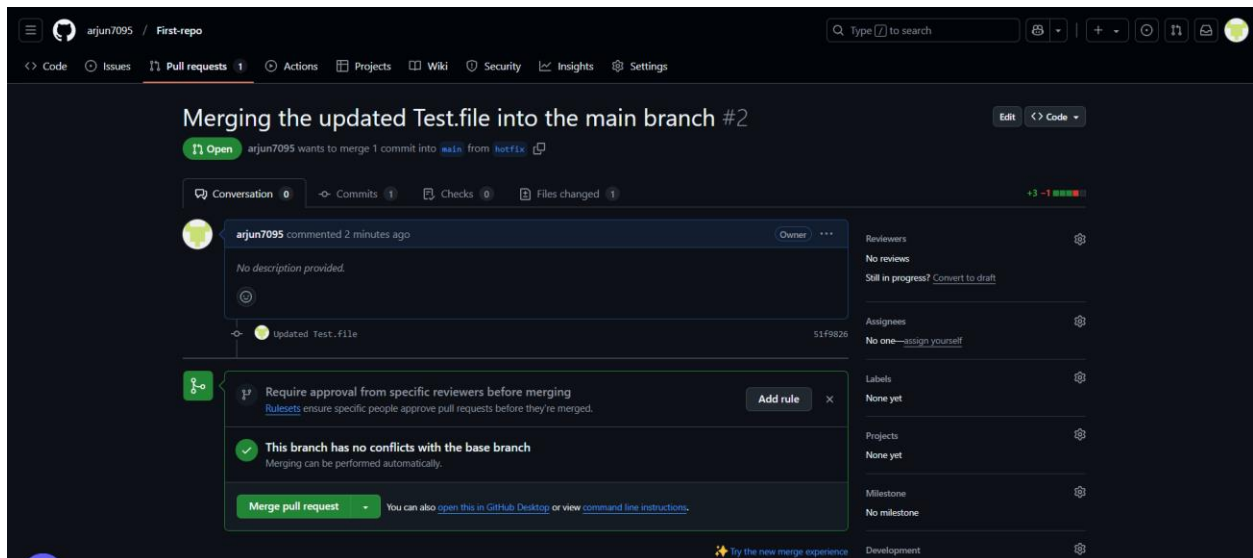- After using above merge command we got a pull request in the repository as shown below
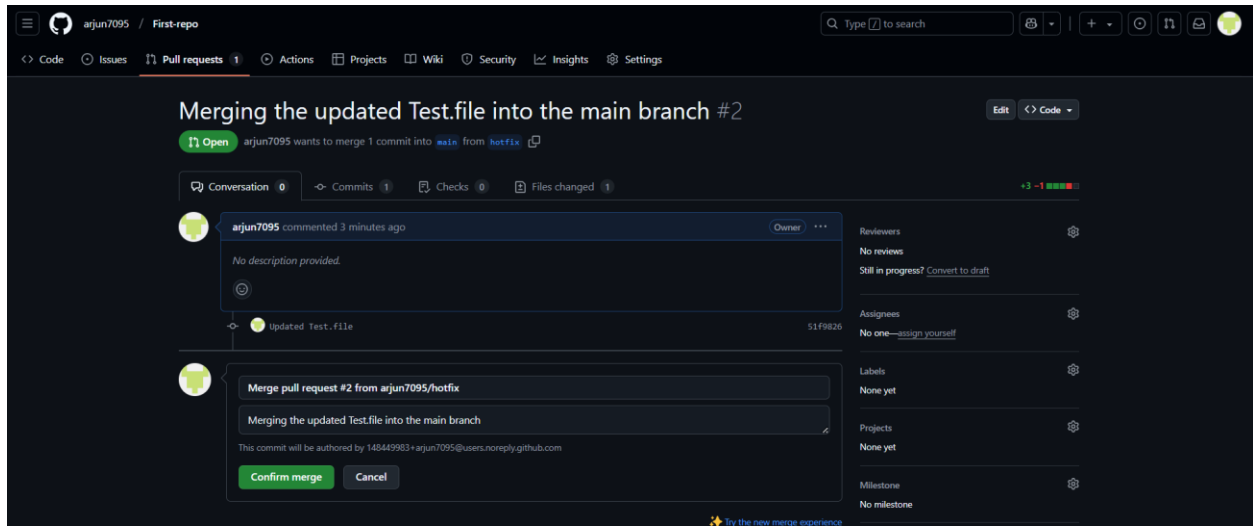
Confirming the Pull request:

1. Add the comment and click on create pull request button as shown in below
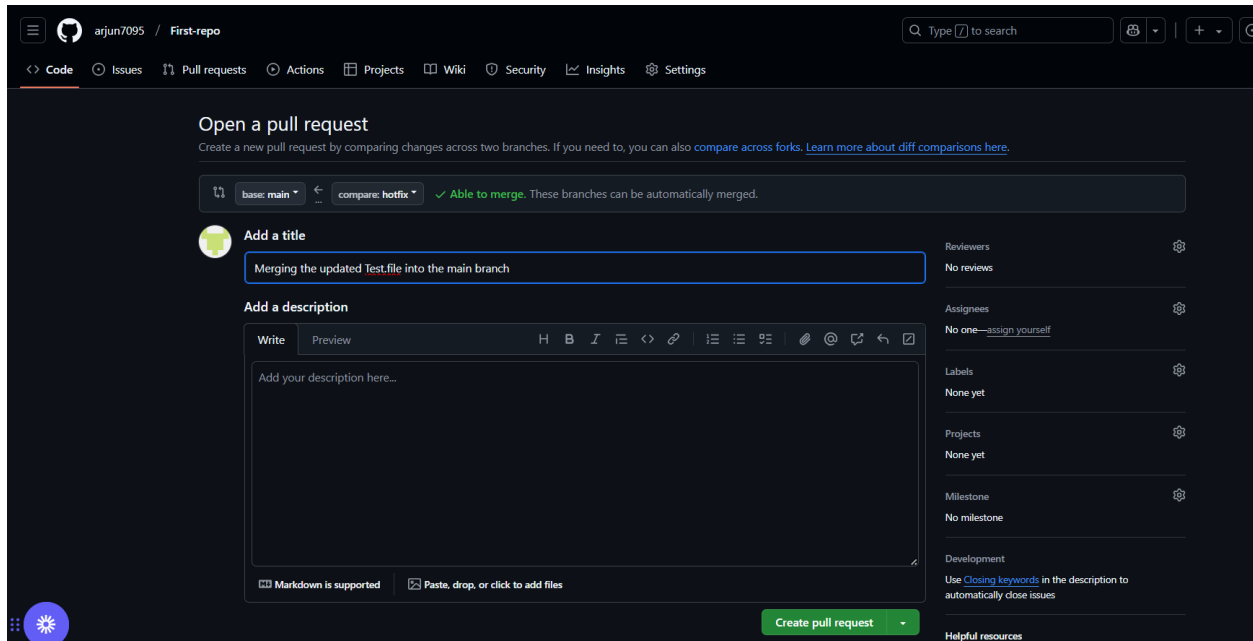
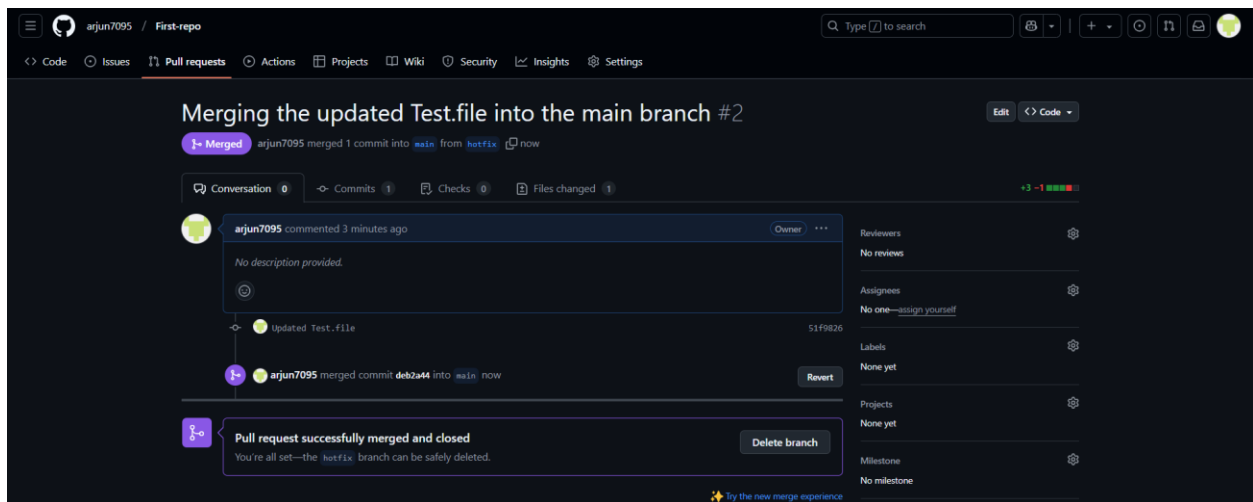

2. After clicking the create pull request, it will ask to confirm like below image

3. Confirm the merge request by clicking the confirm merge button

After Approving the Pull Request:

Updated file commit shown in below image: