



American International University- Bangladesh

Course Name : software engineering(CSC 3114)

Assignment: Final term git lab task

Course teacher : Saeeda Sharmeen Rahman

CS, FST

sharmeen@aiub.edu

Submitted By: Kamrul Hasan Siyam

ID: 23-50356-1

Step 1 – Discover Issue

Created README.md with typo 'implimentation'. Committed and pushed to GitHub.

Commands:

```
git add README.md
```

```
git commit -m "docs: add README with typo implimentation"
```

```
git push origin main
```

```
MINGW64:/d/A_MicroFreelancing_platform_for_University_Students_23-50356-1/A_MicroFreela...

User@LAPTOP-SHG8L7SD MINGW64 /d/A_MicroFreelancing_platform_for_University_Stude
nts_23-50356-1
$ git clone https://github.com/kamrul-hasan960/A_MicroFreelancing_platform_for_U
niversity_Students_23-50356-1.git
cd A_MicroFreelancing_platform_for_University_Students_23-50356-1

Cloning into 'A_MicroFreelancing_platform_for_University_Students_23-50356-1'...
warning: You appear to have cloned an empty repository.

User@LAPTOP-SHG8L7SD MINGW64 /d/A_MicroFreelancing_platform_for_University_Stude
nts_23-50356-1/A_MicroFreelancing_platform_for_University_Students_23-50356-1 (m
ain)
$
```

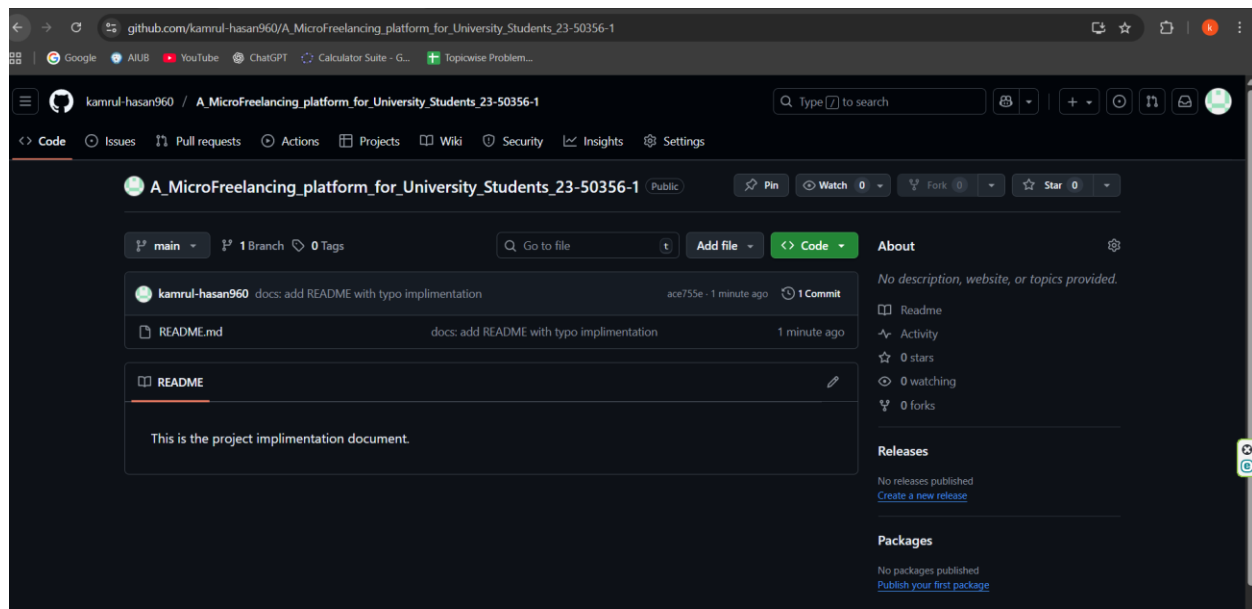
```
MINGW64:/d/A_MicroFreelancing_platform_for_University_Students_23-50356-1/A_MicroFreela...

Cloning into 'A_MicroFreelancing_platform_for_University_Students_23-50356-1'...
warning: You appear to have cloned an empty repository.

User@LAPTOP-SHG8L7SD MINGW64 /d/A_MicroFreelancing_platform_for_University_Stude
nts_23-50356-1/A_MicroFreelancing_platform_for_University_Students_23-50356-1 (m
ain)
$ echo "This is the project implimentation document." > README.md
git add README.md
git commit -m "docs: add README with typo implimentation"
git push origin main

warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git to
uches it
[main (root-commit) ace755e] docs: add README with typo implimentation
 1 file changed, 1 insertion(+)
 create mode 100644 README.md
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 290 bytes | 145.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/kamrul-hasan960/A_MicroFreelancing_platform_for_University_Students_23-
50356-1.git
 * [new branch]      main -> main

User@LAPTOP-SHG8L7SD MINGW64 /d/A_MicroFreelancing_platform_for_University_Students_23-50356-
1/A_MicroFreelancing_platform_for_University_Students_23-50356-1 (main)
```



Step 2 – Create Hotfix Branch

Created a hotfix branch to fix the typo.

Commands:

```
git checkout -b hotfix/critical-readme-typo
```

```
User@LAPTOP-SHG8L7SD MINGW64 /d/A_MicroFreelancing_platform_for_University_Students_23-50356-1/A_MicroFreelancing_platform_for_University_Students_23-50356-1 (main)
$ git checkout main
git pull origin main
git checkout -b hotfix/critical-readme-typo

Already on 'main'
Your branch is up to date with 'origin/main'.
From https://github.com/kamrul-hasan960/A_MicroFreelancing_platform_for_University_Students_23-50356-1
 * branch                main                -> FETCH_HEAD
Already up to date.
Switched to a new branch 'hotfix/critical-readme-typo'

User@LAPTOP-SHG8L7SD MINGW64 /d/A_MicroFreelancing_platform_for_University_Students_23-50356-1/A_MicroFreelancing_platform_for_University_Students_23-50356-1 (hotfix/critical-readme-typo)
$ |
```

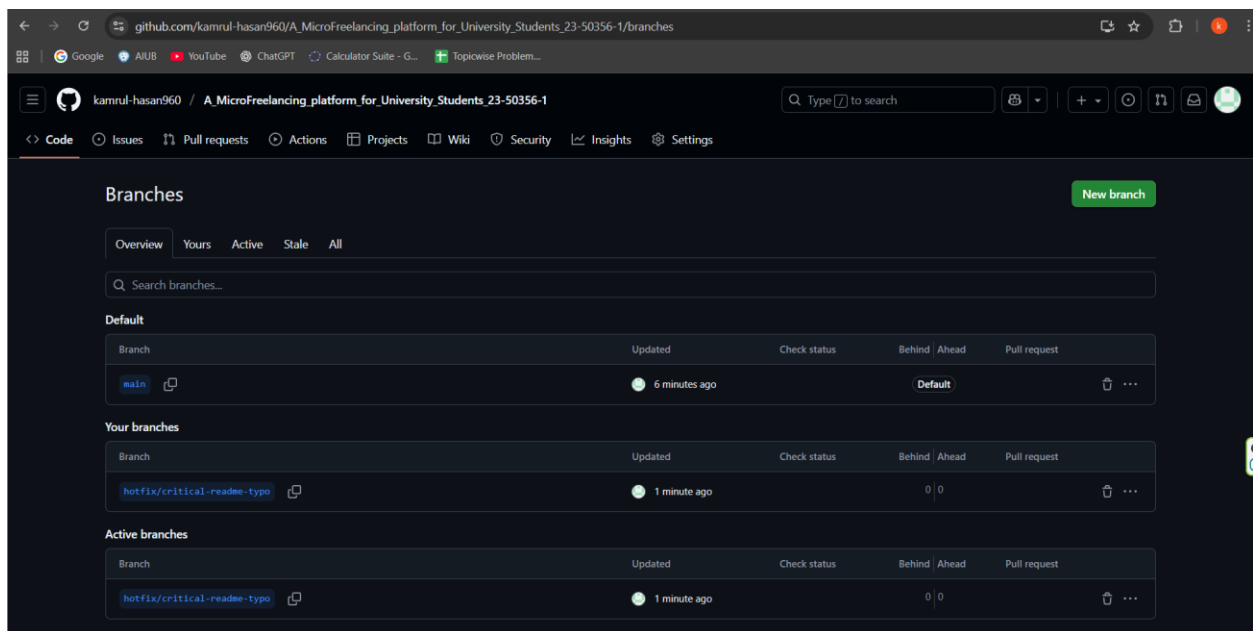
```

User@LAPTOP-SHG8L7SD MINGW64 /d/A_MicroFreelancing_platform_for_University_Students_23-50356-1/A_MicroFreelancing_platform_for_University_Students_23-50356-1 (hotfix/critical-readme-typo)
$ git push -u origin hotfix/critical-readme-typo

Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'hotfix/critical-readme-typo' on GitHub by visiting:
remote:   https://github.com/kamrul-hasan960/A_MicroFreelancing_platform_for_University_Students_23-50356-1/pull/new/hotfix/critical-readme-typo
remote:
To https://github.com/kamrul-hasan960/A_MicroFreelancing_platform_for_University_Students_23-50356-1.git
 * [new branch]      hotfix/critical-readme-typo -> hotfix/critical-readme-typo
branch 'hotfix/critical-readme-typo' set up to track 'origin/hotfix/critical-readme-typo'.

User@LAPTOP-SHG8L7SD MINGW64 /d/A_MicroFreelancing_platform_for_University_Students_23-50356-1/A_MicroFreelancing_platform_for_University_Students_23-50356-1 (hotfix/critical-readme-typo)
$ |

```



Step 3 – Fix Issue in Hotfix Branch

Fixed typo in README.md ('implimentation' → 'implementation').

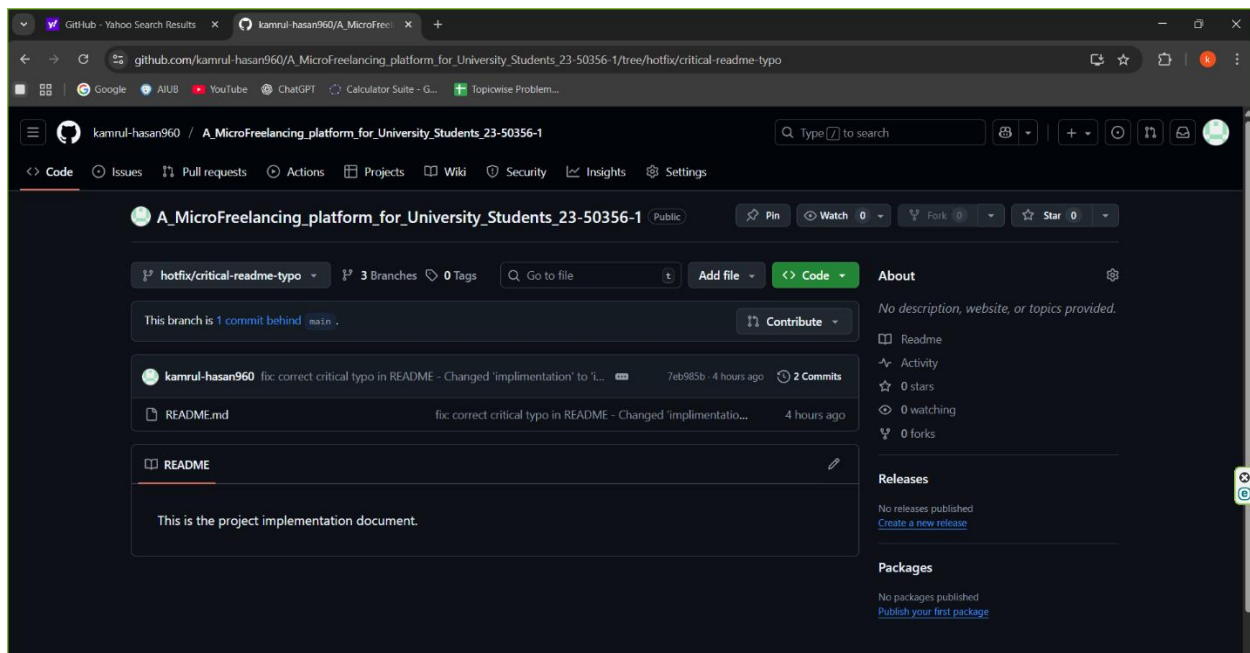
Commit Message:

fix: correct critical typo in README - Changed 'implimentation' to 'implementation'

Commands:

git add README.md

git commit -m "fix: correct critical typo in README"



```
User@LAPTOP-SHG8L7SD MINGW64 /d/A_MicroFreelancing_platform_for_University_Students_23-50356-1/A_MicroFreelancing_platform_for_University_Students_23-50356-1 (hotfix/critical-readme-typo)
$ git add README.md
git commit -m "fix: correct critical typo in README - Changed 'implimentation' to 'implementation' - This was causing confusion for users"
git push

warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
[hotfix/critical-readme-typo 7eb985b] fix: correct critical typo in README - Changed 'implimentation' to 'implementation' - This was causing confusion for users
1 file changed, 1 insertion(+), 1 deletion(-)
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 376 bytes | 188.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/kamrul-hasan960/A_MicroFreelancing_platform_for_University_Students_23-50356-1.git
ace755e..7eb985b hotfix/critical-readme-typo -> hotfix/critical-readme-typo

User@LAPTOP-SHG8L7SD MINGW64 /d/A_MicroFreelancing_platform_for_University_Students_23-50356-1/A_MicroFreelancing_platform_for_University_Students_23-50356-1 (hotfix/critical-readme-typo)
$
```

Step 4 – Push Hotfix Branch to GitHub

Pushed the hotfix branch to remote.

Commands:

```
git push -u origin hotfix/critical-readme-typo
```

```

User@LAPTOP-SHG8L7SD MINGW64 /d/A_MicroFreelancing_platform_for_University_Students_23-50356-1/A_MicroFreelancing_platform_for_University_Students_23-50356-1 (hotfix/critical-readme-typo)
$ git push -u origin hotfix/critical-readme-typo

Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'hotfix/critical-readme-typo' on GitHub by visiting:
remote:   https://github.com/kamrul-hasan960/A_MicroFreelancing_platform_for_University_Students_23-50356-1/pull/new/hotfix/critical-readme-typo
remote:
To https://github.com/kamrul-hasan960/A_MicroFreelancing_platform_for_University_Students_23-50356-1.git
 * [new branch]      hotfix/critical-readme-typo -> hotfix/critical-readme-typo
branch 'hotfix/critical-readme-typo' set up to track 'origin/hotfix/critical-readme-typo'.

User@LAPTOP-SHG8L7SD MINGW64 /d/A_MicroFreelancing_platform_for_University_Students_23-50356-1/A_MicroFreelancing_platform_for_University_Students_23-50356-1 (hotfix/critical-readme-typo)
$ |

```

Step 5 – Create Pull Requests

Created two PRs:

PR #1: hotfix/critical-readme-typo → main

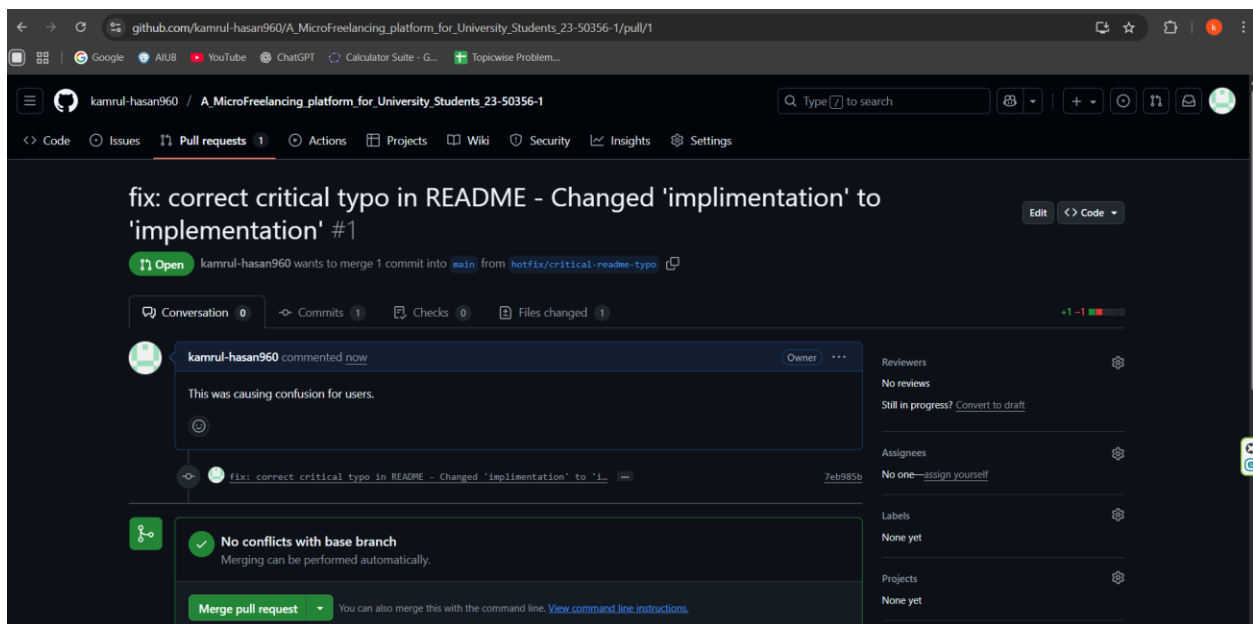
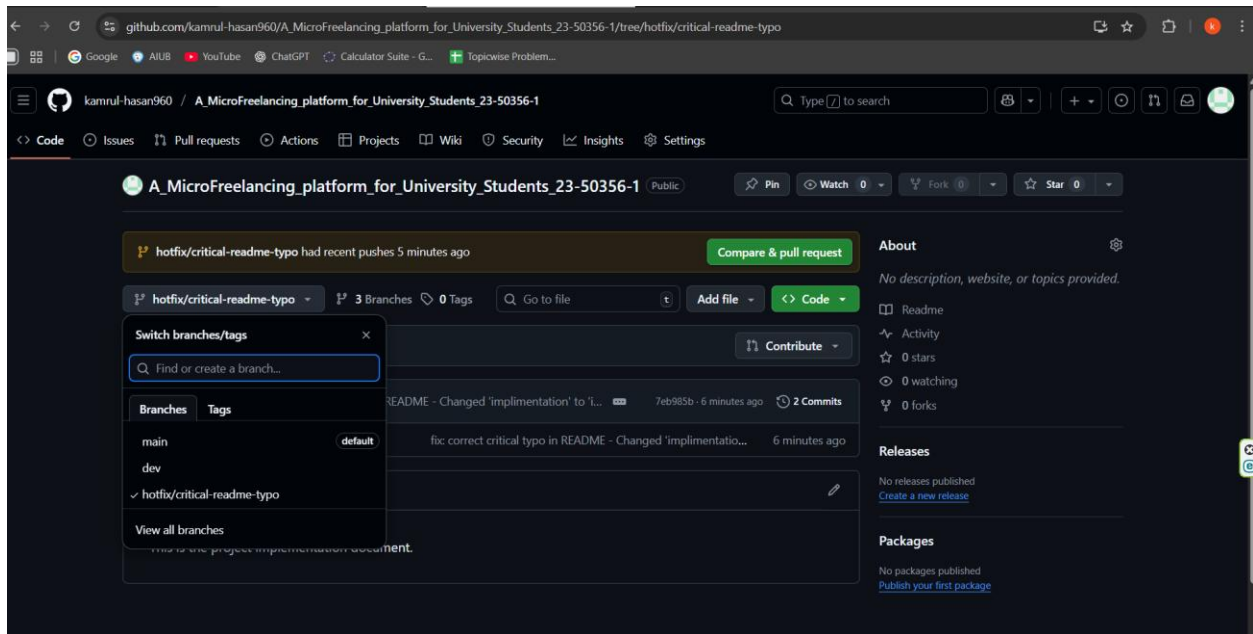
PR #2: hotfix/critical-readme-typo → dev

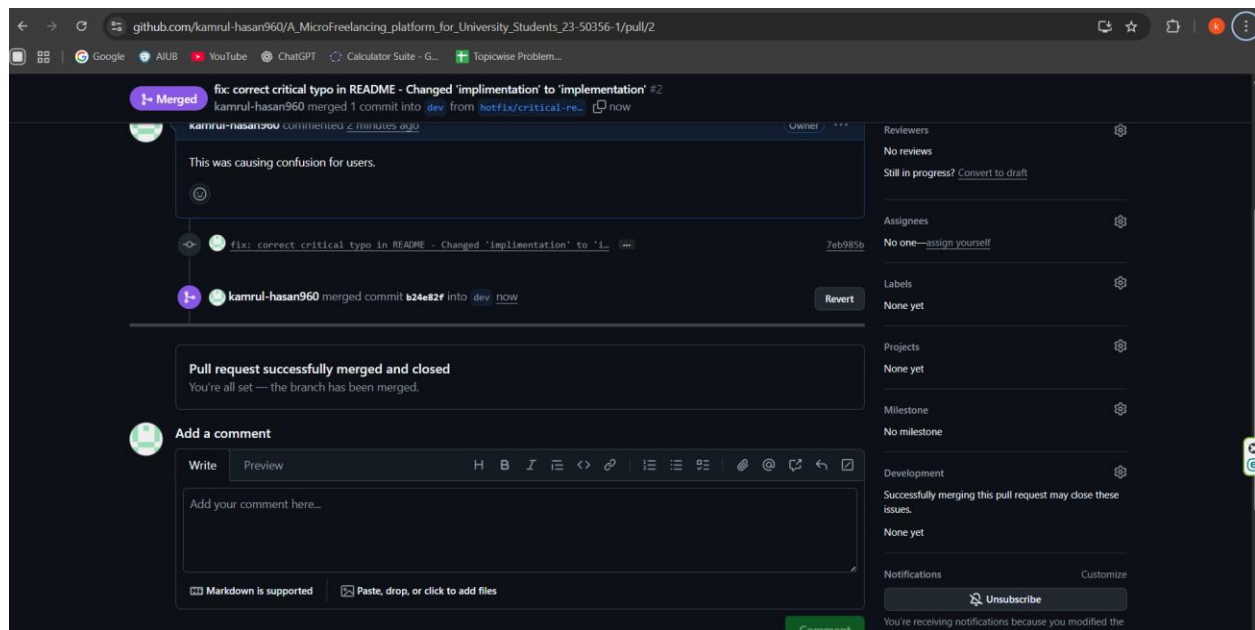
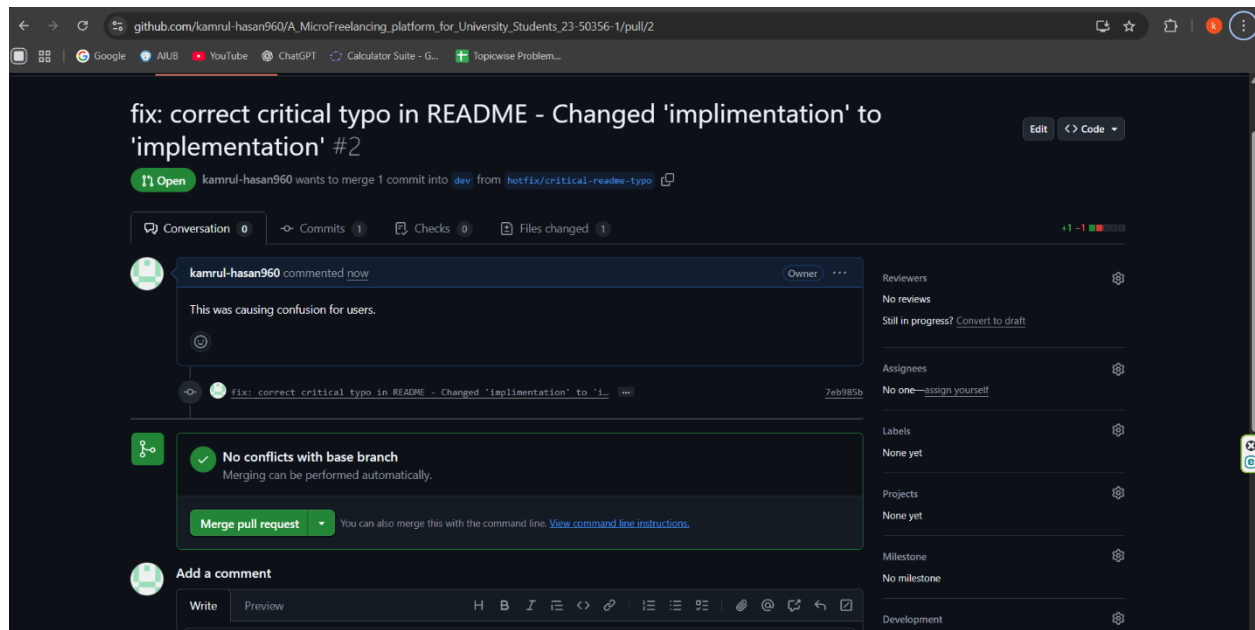
```

User@LAPTOP-SHG8L7SD MINGW64 /d/A_MicroFreelancing_platform_for_University_Students_23-50356-1/A_MicroFreelancing_platform_for_University_Students_23-50356-1 (hotfix/critical-readme-typo)
$ git checkout main
git pull origin main
git checkout -b dev
git push -u origin dev

Switched to branch 'main'
Your branch is up to date with 'origin/main'.
From https://github.com/kamrul-hasan960/A_MicroFreelancing_platform_for_University_Students_23-50356-1
 * branch      main      -> FETCH_HEAD
Already up to date.
Switched to a new branch 'dev'
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'dev' on GitHub by visiting:
remote:   https://github.com/kamrul-hasan960/A_MicroFreelancing_platform_for_University_Students_23-50356-1/pull/new/dev
remote:
To https://github.com/kamrul-hasan960/A_MicroFreelancing_platform_for_University_Students_23-50356-1.git
 * [new branch]      dev -> dev
branch 'dev' set up to track 'origin/dev'.

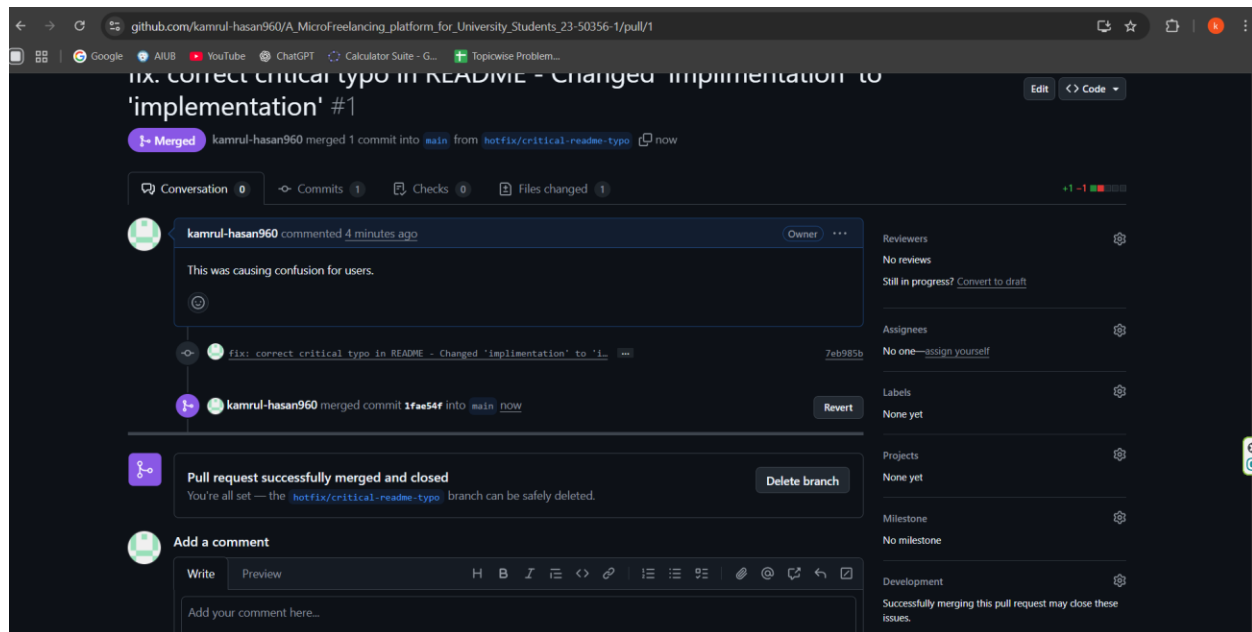
```





Step 6 – Merge PRs

Merged PR #1 into main and PR #2 into dev.



MY configured Git identity :

```
User@LAPTOP-SHG8L7SD MINGW64 /d/A_MicroFreelancing_platform_for_University_Stude
nts_23-50356-1/A_MicroFreelancing_platform_for_University_Students_23-50356-1/.g
it (GIT_DIR!)
$ git config user.name
kamrul_Hasan_Siyam

User@LAPTOP-SHG8L7SD MINGW64 /d/A_MicroFreelancing_platform_for_University_Stude
nts_23-50356-1/A_MicroFreelancing_platform_for_University_Students_23-50356-1/.g
it (GIT_DIR!)
$ git config user.email
hasankamrul06723@gmail.com

User@LAPTOP-SHG8L7SD MINGW64 /d/A_MicroFreelancing_platform_for_University_Stude
nts_23-50356-1/A_MicroFreelancing_platform_for_University_Students_23-50356-1/.g
it (GIT_DIR!)
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=schannel
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
filter.lfs.required=true
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
user.name=kamrul_Hasan_Siyam
user.email=hasankamrul06723@gmail.com
core.repositoryformatversion=0
core.filemode=false
core.bare=false
core.logallrefupdates=true
core.symlinks=false
core.ignorecase=true
remote.origin.url=https://github.com/kamrul-hasan960/A_MicroFreelancing_platform_for_University_Student
s_23-50356-1.git
remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
branch.main.remote=origin
branch.main.merge=refs/heads/main
branch.dev.remote=origin
branch.dev.merge=refs/heads/dev

User@LAPTOP-SHG8L7SD MINGW64 /d/A_MicroFreelancing_platform_for_University_Stude
nts_23-50356-1/A_MicroFreelancing_platform_for_University_Students_23-50356-1/.g
it (GIT_DIR!)
$ |
```

Conclusion:

Successfully completed GitLab task. Created typo, fixed with hotfix branch, and merged via PRs.