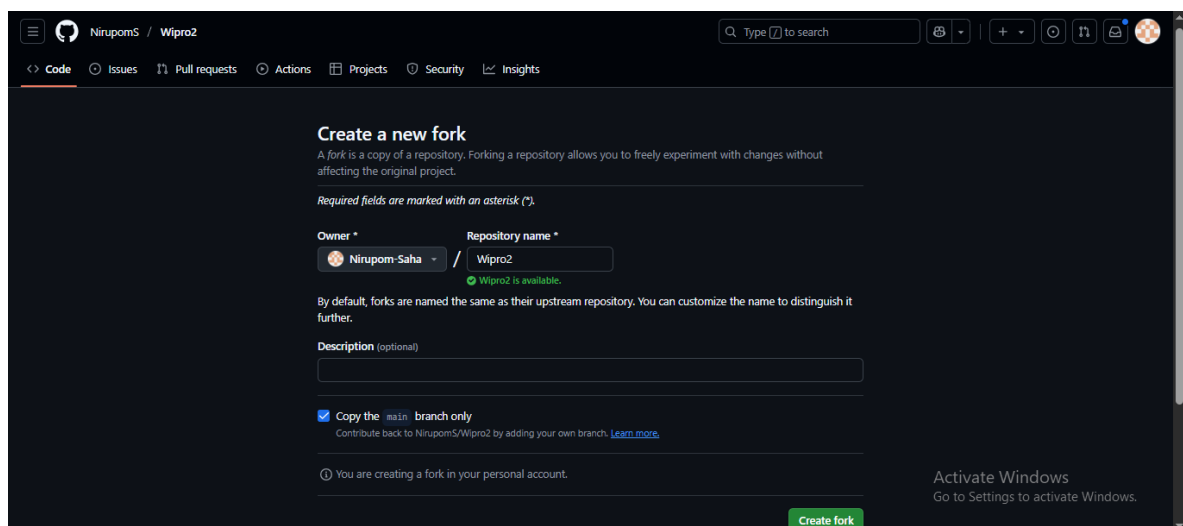
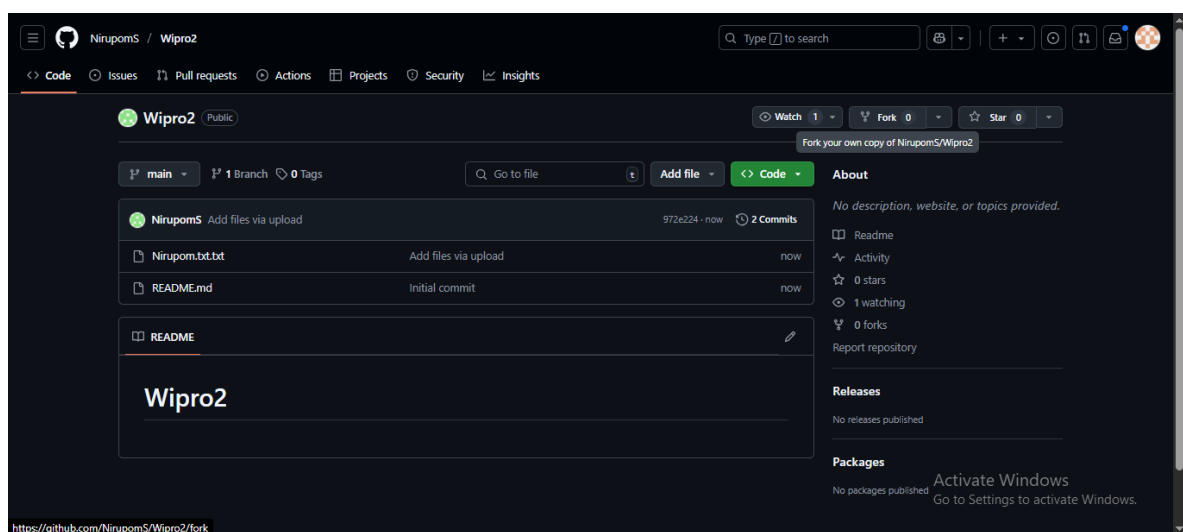


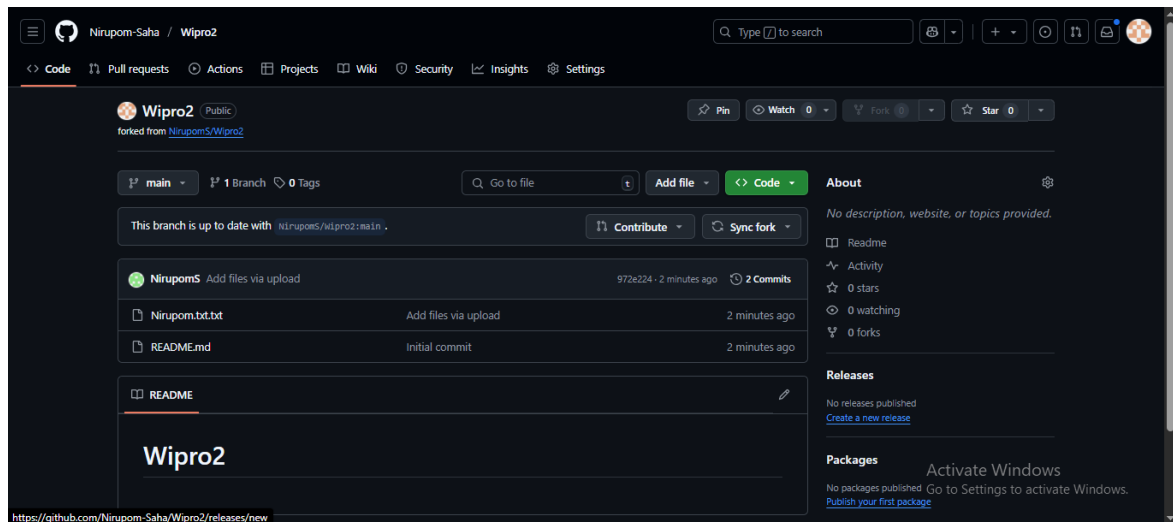
Name: Nirupom Saha

Registration No: 2141019011

Assignment 3: Collaborative Development Using Git - Fork an existing repository (this can be a simulated action if no actual repository is available), clone it locally, and demonstrate managing updates from the original repository. Create a pull request to the original repository with changes made in the forked repository, and outline a simple code review process.

1. Forking an Existing Repository





➤ Local Simulation

```
MINGW64/c/Users/nirup/Desktop/ASS3

nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3
$ mkdir original-repo

nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3
$ cd original-repo

nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3/original-repo
$ git init
Initialized empty Git repository in C:/Users/nirup/Desktop/ASS3/original-repo/.git/

nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3/original-repo (master)
$ echo "# Original Project" > README.md

nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3/original-repo (master)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it

nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3/original-repo (master)
$ git commit -m "Initial commit"
[master (root-commit) fd7f463] Initial commit
1 file changed, 1 insertion(+)
create mode 100644 README.md

nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3/original-repo (master)
$ cd ..

nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3
$ git clone original-repo forked-repo
Cloning into 'forked-repo'...
done.

nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3
$ |
```


2. Cloning the Forked Repository Locally

```
MINGW64/c/Users/nirup/Desktop/ASS3

nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3
$ git clone https://github.com/Nirupom-Saha/wipro2.git
Cloning into 'wipro2'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (6/6), done.
```

3. Adding the Original Repository as a Remote

```
nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (master)
$ git remote add upstream https://github.com/Nirupom-Saha/Wipro2.git
```

 MINGW64:/c/Users/nirup/Desktop/ASS3

```
nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (master)
$ git remote -v
upstream      https://github.com/Nirupom-Saha/Wipro2.git (fetch)
upstream      https://github.com/Nirupom-Saha/Wipro2.git (push)

nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (master)
$
```

4. Fetching and Merging Updates from Original Repository

```
nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (master)
$ git fetch upstream
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (6/6), 1.74 KiB | 27.00 KiB/s, done.
From https://github.com/Nirupom-Saha/Wipro2
 * [new branch]      main      -> upstream/main
```

```
nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (master)
$
```

```
nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (master)
$ git checkout main
branch 'main' set up to track 'upstream/main'.
Switched to a new branch 'main'
```

```
nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (main)
$
```

```
nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (main)
$ git merge upstream/main
Already up to date.
```

```
nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (main)
$ |
```

5. Making Changes in the Forked Repository

```
nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (main)
$ git checkout -b my-new-feature
Switched to a new branch 'my-new-feature'

nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (my-new-feature)
$
```

```
nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (my-new-feature)
$ echo "This is a new feature" > feature.txt

nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (my-new-feature)
$
```

```
nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (my-new-feature)
$ git add feature.txt
warning: in the working copy of 'feature.txt', LF will be replaced by CRLF the next time Git touches it

nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (my-new-feature)
$ |
```

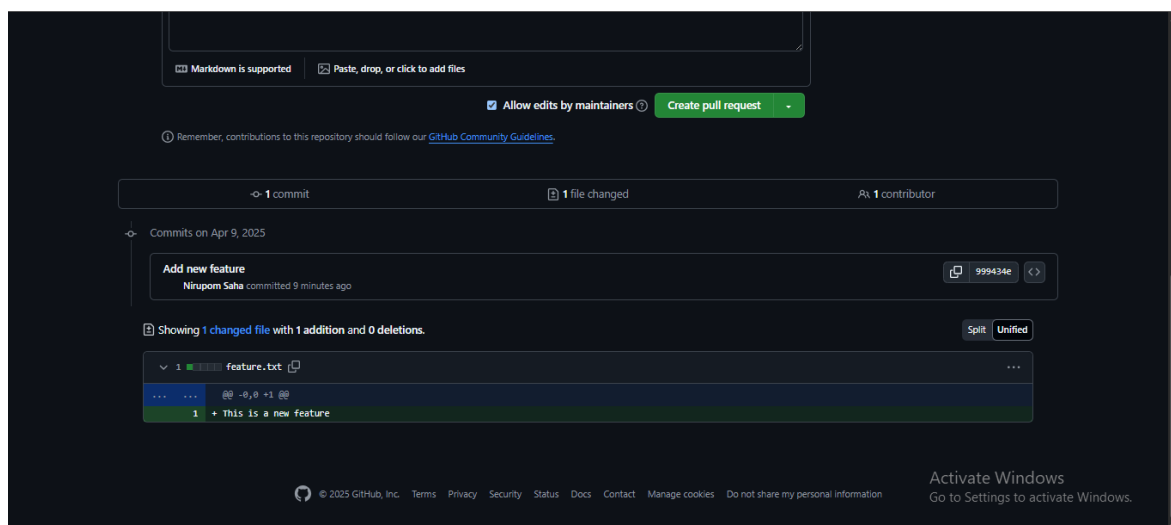
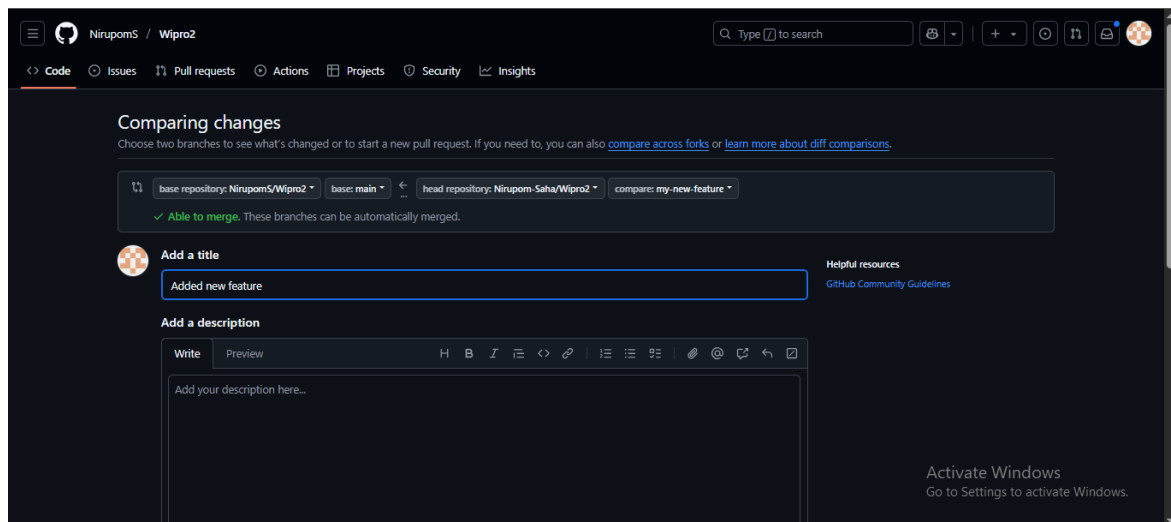
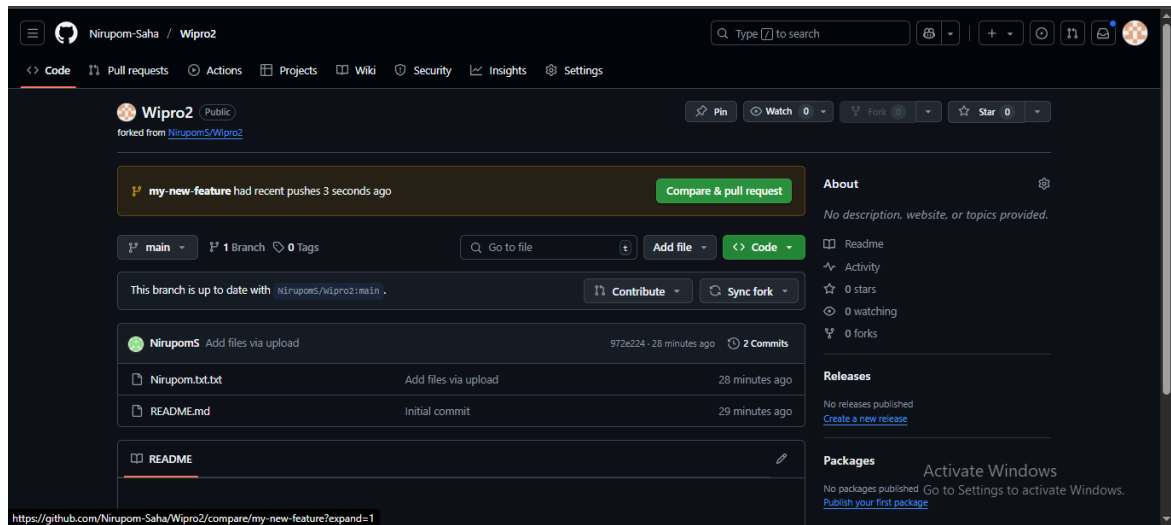
```
nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (my-new-feature)
$ git commit -m "Add new feature"
[my-new-feature 999434e] Add new feature
 1 file changed, 1 insertion(+)
 create mode 100644 feature.txt

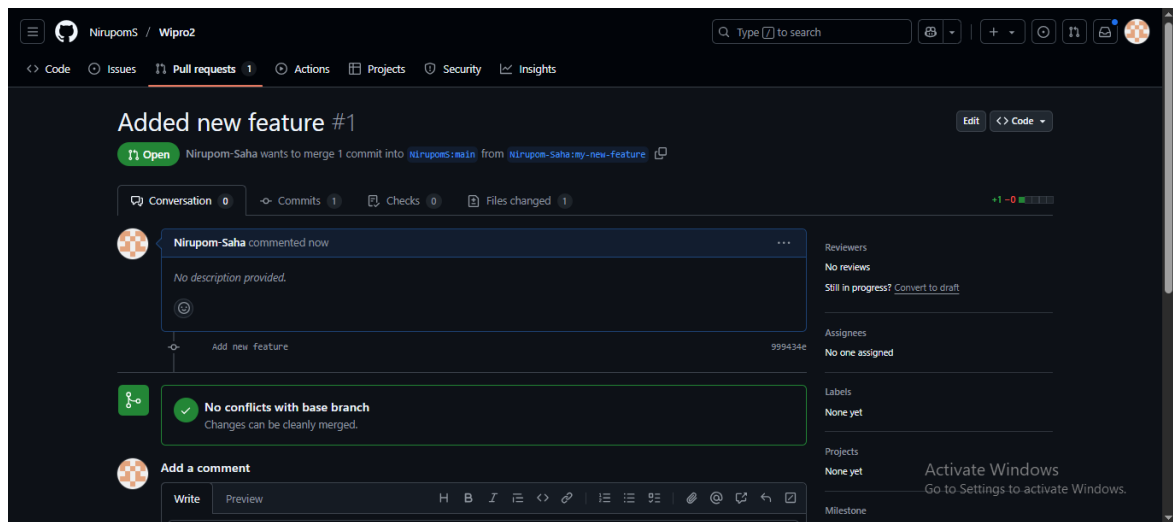
nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (my-new-feature)
$ |
```

```
nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (my-new-feature)
$ git push origin my-new-feature
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), 343 bytes | 171.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'my-new-feature' on GitHub by visiting:
remote:   https://github.com/Nirupom-Saha/Wipro2/pull/new/my-new-feature
remote:
To https://github.com/Nirupom-Saha/Wipro2.git
 * [new branch]      my-new-feature -> my-new-feature

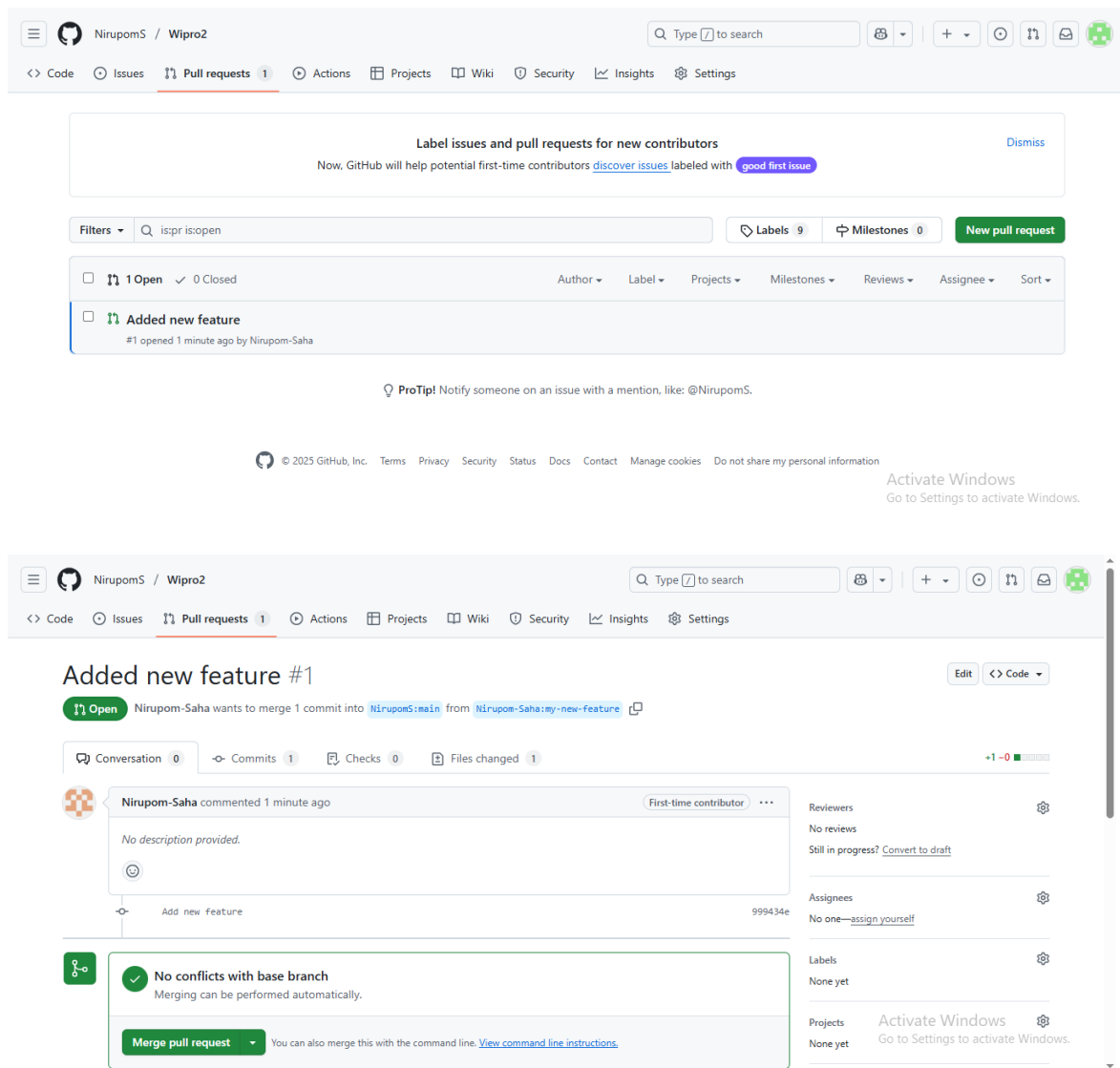
nirup@DESKTOP-OBQE6SK MINGW64 ~/Desktop/ASS3 (my-new-feature)
$ |
```

6. Creating a Pull Request (PR) to Original Repository





7. Merging Pull request



Open

Added new feature #1

Nirupom-Saha wants to merge 1 commit into NirupomS:main from Nirupom-Saha:my-new-feature

Nirupom-Saha commented 3 minutes ago

First-time contributor

No description provided.

Add new feature

999434e

Commit message

Merge pull request #1 from Nirupom-Saha/my-new-feature

Extended description

Added new feature

This commit will be authored by nirupomsaha011@gmail.com.

Confirm mergeCancel

Reviewers

No reviews

Still in progress? Convert to draft

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

Activate Windows

Go to Settings to activate Windows.

NirupomS / Wipro2

Type to search

CodeIssuesPull requests1ActionsProjectsWikiSecurityInsightsSettings

Added new feature #1

Merged

NirupomS merged 1 commit into NirupomS:main from Nirupom-Saha:my-new-feature now

Conversation0Commits1Checks0Files changed1+1-0

Nirupom-Saha commented 4 minutes ago

First-time contributor

No description provided.

Add new feature

999434e

NirupomS merged commit 2923926 into NirupomS:main now

Revert

Pull request successfully merged and closed

You're all set — the branch has been merged.

Reviewers

No reviews

Still in progress? Convert to draft

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Activate Windows

Go to Settings to activate Windows.

NirupomS / Wipro2

Type to search

CodeIssuesPull requests1ActionsProjectsWikiSecurityInsightsSettings

Added new feature #1

Merged

NirupomS merged 1 commit into NirupomS:main from Nirupom-Saha:my-new-feature 10 hours ago

Conversation0Commits1Checks0Files changed1+1-0

Changes from all commitsFile filterConversationsJump to0 / 1 files viewedReview in codespaceReview changes

1 feature.txt

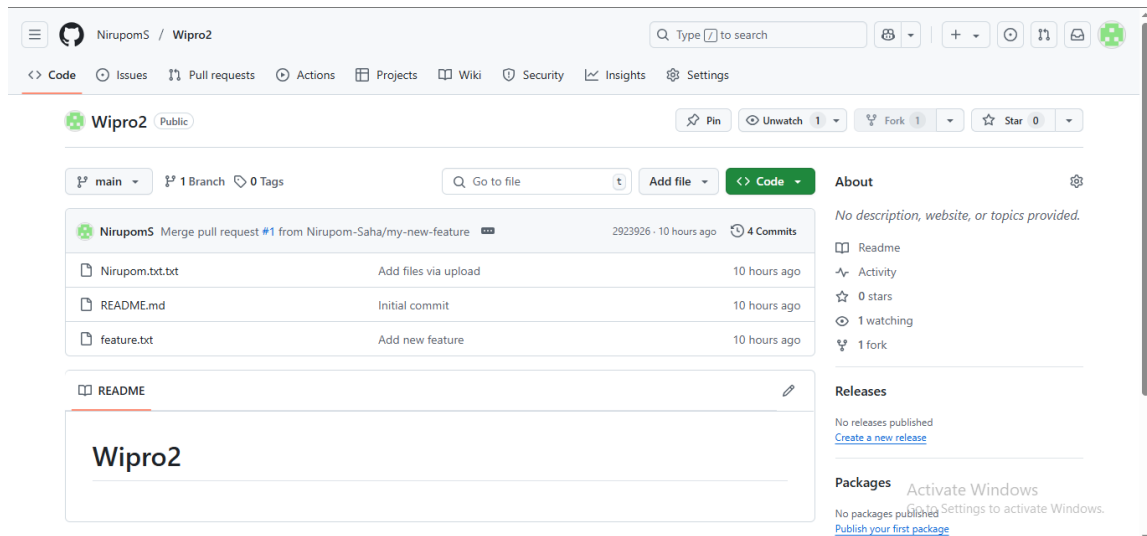
Viewed

@@ -0,0 +1 @@

+ This is a new feature

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Activate Windows
Go to Settings to activate Windows.



7. Simple Code Review Process

Here's a basic review workflow:

I. Open Pull Request

- Team members are notified.

II. Reviewer Reviews Code

- Check for correctness, coding standards, and readability.

III. Comments & Suggestions

- Use GitHub review tools to add inline comments.

IV. Author Responds

- Pushes new commits to address feedback.

V. Final Approval

- Reviewer clicks "Approve".

VI. Merge

- Author or maintainer merges the PR after approval.