

Abdur Rahim

Batch: DevOps-B01-092024

Assignment: Git for DevOps

Assignment 1: Setting Up Git and Basic Operations

- **Task Steps:**

1. Install Git and configure your global username and email.

```
Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment
$ git config --global --list
user.email=abrahimcse@gmail.com
user.name=abrahimcse
```

2. Initialize a new Git repository in a local folder.

```
Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment
$ mkdir GitHub
```

3. Create a **README.md** file with an introductory message and stage it.

```
Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment
$ cd GitHub/

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub
$ echo "# Welcome to GitHub Assignment Repository" >> README.md
```

4. Commit the changes with a standard commit message.

```
Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (main)
$ git add README.md

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (main)
$ git commit -m "Initial commit: Added README.md with introductory message"
On branch main
nothing to commit, working tree clean

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (main)
$ git status
On branch main
nothing to commit, working tree clean
```

5. Modify the README file again, stage, and make a commit.

```
Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (main)
$ vim README.md

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (main)
$ git commit -am "updated someline in readme file"
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next ti
me Git touches it
[main 4fb1da4] updated someline in readme file
1 file changed, 1 insertion(+)
```

Assignment 2: Creating and Managing Branches

Task Steps:

1. Create a branch called `feature-update` from the `main` branch.

```
Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (main)
$ git branch
* main

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (main)
$ git checkout -b feature-update
Switched to a new branch 'feature-update'

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (feature-update)
$ git branch
* feature-update
  main
```

2. Make a change in the `feature-update` branch and commit it.

```
Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (feature-update)
$ vim README.md

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (feature-update)
$ git commit -am "add some line in README file from feature-update branch"
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
[feature-update 59870e4] add some line in README file from feature-update branch
1 file changed, 1 insertion(+), 1 deletion(-)

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (feature-update)
$ |
```

3. Switch back to the `main` branch and merge `feature-update`.

```
Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (feature-update)
$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 2 commits.
(use "git push" to publish your local commits)

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (main)
$ cat README.md
# Welcome to My GitHub Assignment Repository
add second line

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (main)
$ git merge feature-update
Updating 4fb1da4..59870e4
Fast-forward
 README.md | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (main)
$ cat README.md
# Welcome to My GitHub Assignment Repository
add second line
Add some line for feature-Update Branch`
```

4. Create a simulated merge conflict.

```
Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (main)
$ git branch
  feature-update
* main

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (main)
$ vim README.md

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (main)
$ git commit -am "Update: Added a line from the main branch"
[main eefa7ab] Update: Added a line from the main branch
1 file changed, 1 insertion(+), 3 deletions(-)

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (main)
$ git checkout feature-update
Switched to branch 'feature-update'

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (feature-update)
$ vim README.md

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (feature-update)
$ git commit -am "Update: Added a conflicting line from feature-update branch"
[feature-update d6b538c] Update: Added a conflicting line from feature-update branch
1 file changed, 1 insertion(+), 3 deletions(-)
```

5. Attempt to rebase `feature-update` onto `main`, resolve any conflicts during the rebase process, and complete the rebase.

```
Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (feature-update)
$ git branch
* feature-update
  main

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (feature-update)
$ git rebase main
Auto-merging README.md
CONFLICT (content): Merge conflict in README.md
error: could not apply d6b538c... Update: Added a conflicting line from feature-update branch
hint: Resolve all conflicts manually, mark them as resolved with
hint: "git add/rm <conflicted_files>", then run "git rebase --continue".
hint: You can instead skip this commit: run "git rebase --skip".
hint: To abort and get back to the state before "git rebase", run "git rebase --abort".
hint: Disable this message with "git config advice.mergeConflict false"
Could not apply d6b538c... Update: Added a conflicting line from feature-update branch
```

Conflicts

```
<<<<<< HEAD
This change is made in the main branch.
~~~~~
This conflicting change is made in the feature-update branch.
>>>>>> d6b538c (Update: Added a conflicting line from feature-update branch)
~~~~~
```

```
$ git add README.md
$ git rebase --continue
```

```
[detached HEAD db2304b] Update: Added a conflicting line from feature-update branch
1 file changed, 1 insertion(+), 1 deletion(-)
Successfully rebased and updated refs/heads/feature-update.
```

6. Merge `feature-update` into `main` after rebasing to compare the process with direct merging.

```
Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (feature-update)
$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 4 commits.
(use "git push" to publish your local commits)

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (main)
$ git merge feature-update
Updating eefa7ab..db2304b
Fast-forward
 README.md | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
```

7. Commit the final merged state.

```
Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/GitHub (main)
$ git commit -am "merge feature-update branch from main branch"
On branch main
Your branch is ahead of 'origin/main' by 5 commits.
(use "git push" to publish your local commits)

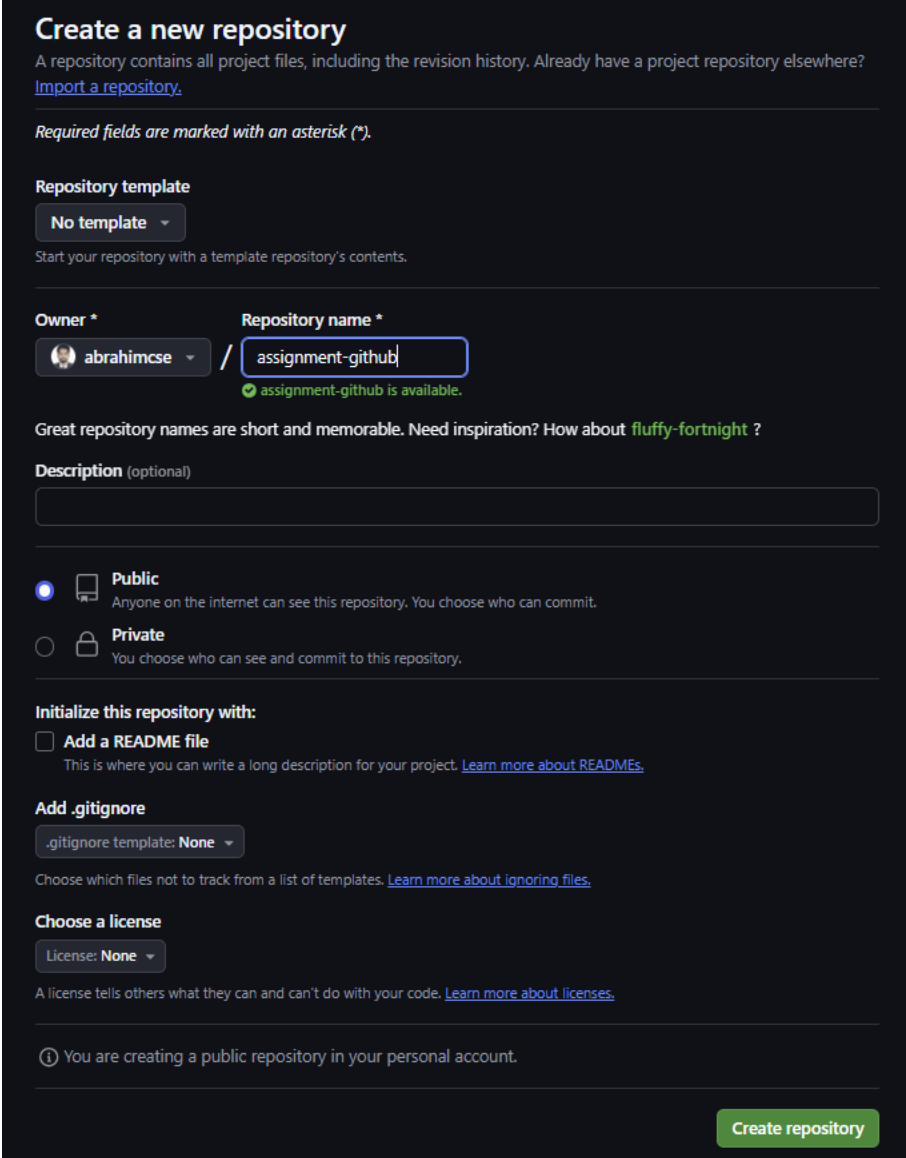
nothing to commit, working tree clean
```

Assignment 3 : GitFlow Workflow with GitHub Integration

Task Overview:

1. Initial Setup:

- Create a local Git repository, push it to GitHub, and set up **main** and **develop** branches.



Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)


Required fields are marked with an asterisk ().*

Repository template

No template ▾

Start your repository with a template repository's contents.


Owner * **Repository name ***


 abrahimcse ▾ / assignment-github

✔ assignment-github is available.

Great repository names are short and memorable. Need inspiration? How about **fluffy-fortnight** ?

Description (optional)

☒  **Public**
Anyone on the internet can see this repository. You choose who can commit.

☐  **Private**
You choose who can see and commit to this repository.

Initialize this repository with:

☐ **Add a README file**
This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore


.gitignore template: None ▾

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)


Choose a license





License: None ▾


A license tells others what they can and can't do with your code. [Learn more about licenses.](#)


 You are creating a public repository in your personal account.





Create repository


 **assignment-github** Public

 Pin  Unwatch **1**  Fork **0**  Star **0**


**Set up GitHub Copilot**
Use GitHub's AI pair programmer to autocomplete suggestions as you code.
[Get started with GitHub Copilot](#)

**Add collaborators to this repository**
Search for people using their GitHub username or email address.
[Invite collaborators](#)


Quick setup — if you've done this kind of thing before
 Set up in Desktop or  HTTPS  SSH 
Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [gitignore](#).

...or create a new repository on the command line


```
echo "# assignment-github" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/abrahimcse/assignment-github.git
git push -u origin main
```

...or push an existing repository from the command line


```
git remote add origin https://github.com/abrahimcse/assignment-github.git
git branch -M main
git push -u origin main
```

 **ProTip!** Use the URL for this page when adding GitHub as a remote.

```
Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment
$ mkdir assignment-github
```

```
Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment
$ cd assignment-github/

Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github
$ echo "# assignment-github" >> README.md

Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github
$ git init
Initialized empty Git repository in D:/YourMentors/Assignment/assignment-github/.git/

Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (master)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Gi
t touches it

Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (master)
$ git commit -m "first commit"
[master (root-commit) f89581a] first commit
1 file changed, 1 insertion(+)
create mode 100644 README.md

Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (master)
$ git branch -M main

Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (main)
$ git remote add origin https://github.com/abrahimcse/assignment-github.git

Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 227 bytes | 227.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/abrahimcse/assignment-github.git
* [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

```
Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (main)
$ git branch
* main

Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (main)
$ git checkout -b develop
Switched to a new branch 'develop'

Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (develop)
$ git branch
* develop
  main

Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (develop)
$ git push -u origin develop
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'develop' on GitHub by visiting:
remote:      https://github.com/abrahimcse/assignment-github/pull/new/develop
remote:
To https://github.com/abrahimcse/assignment-github.git
* [new branch]      develop -> develop
branch 'develop' set up to track 'origin/develop'.
```

2. Feature Development:

- Create a feature branch from `develop`, make changes, commit, and push it to GitHub.

```
Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (develop)
$ git branch
* develop
  main

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (develop)
$ git checkout -b feature
Switched to a new branch 'feature'

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (feature)
$ git branch
* develop
  feature
  main

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (feature)
$ echo "This is a feature branch from create a develop branch." > feature.txt
```

```
Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (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

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (feature)
$ git -m "feat: Added new feature.txt file"
unknown option: -m
usage: git [-v | --version] [-h | --help] [-C <path>] [-c <name>=<value>]
          [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
          [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--no-lazy-fetch]
          [--no-optional-locks] [--no-advice] [--bare] [--git-dir=<path>]
          [--work-tree=<path>] [--namespace=<name>] [--config-env=<name>=<envvar>]
          <command> [<args>]

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (feature)
$ git commit -m "feat: Added new feature.txt file"
[feature 62950d6] feat: Added new feature.txt file
1 file changed, 1 insertion(+)
create mode 100644 feature.txt

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (feature)
$ git push -u origin feature
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 337 bytes | 337.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'feature' on GitHub by visiting:
remote:   https://github.com/abrahimcse/assignment-github/pull/new/feature
remote:
To https://github.com/abrahimcse/assignment-github.git
 * [new branch]      feature -> feature
branch 'feature' set up to track 'origin/feature'.
```

- Open a PR to merge the feature branch into `develop` and complete the PR review process on GitHub.

Label issues and pull requests for new contributors

Now, GitHub will help potential first-time contributors [discover issues](#) labeled with `good first issue`

Dismiss

feature had recent pushes 4 minutes ago


Compare & pull request

Filters

Labels 9

Milestones 0

New pull request



Welcome to pull requests!


Pull requests help you collaborate on code with other people. As pull requests are created, they'll appear here in a searchable and filterable list. To get started, you should [create a pull request](#).

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#) or [learn more about diff comparisons](#).

base: develop ← compare: feature

✓ **Able to merge.** These branches can be automatically merged.



Add a title

feat: Added new feature.txt file

Reviewers

No reviews

Add a description

Write Preview

Add your description here...

Markdown is supported Paste, drop, or click to add files

Assignees

No one — [assign yourself](#)

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Use [Closing keywords](#) in the description to automatically close issues

Helpful resources

[GitHub Community Guidelines](#)

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

1 commit

1 file changed

1 contributor

Commits on Nov 19, 2024

feat: Added new feature.txt file

 **abrahimcse** committed 6 minutes ago

62950d6

Showing 1 changed file with 1 addition and 0 deletions.

Split Unified

feature.txt

```

... @@ -0,0 +1 @@
1 + This is a feature branch from create a deveIop branch.

```

feat: Added new feature.txt file #1

[Open](#) abrahimcse wants to merge 1 commit into `develop` from `feature`

Conversation 0 Commits 1 Checks 0 Files changed 1 +1 -0

abrahimcse commented now Owner

No description provided.

Feat: Added new feature.txt file 62958d6

Rulesets

- Require approval from specific reviewers before merging
[Rulesets](#) ensure specific people approve pull requests before they're merged. [Add rule](#)
- Continuous integration has not been set up
[GitHub Actions](#) and [several other apps](#) can be used to automatically catch bugs and enforce style.
- This branch has no conflicts with the base branch**
Merging can be performed automatically.

[Merge pull request](#) You can also [open this in GitHub Desktop](#) or [view command line instructions](#).

[Try the new merge experience](#)

Add a comment

Write Preview H B I

Add your comment here...

[Markdown is supported](#) [Paste, drop, or click to add files](#)

[Close pull request](#) [Comment](#)

[Remember, contributions to this repository should follow our \[GitHub Community Guidelines\]\(#\).](#)

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.

Notifications [Customize](#)

[Unsubscribe](#)

You're receiving notifications because you're watching this repository.

1 participant

[Lock conversation](#)

feat: Added new feature.txt file #1

[Open](#) abrahimcse wants to merge 1 commit into `develop` from `feature`

Conversation 0 Commits 1 Checks 0 Files changed 1

abrahimcse commented 1 minute ago Owner

No description provided.

Feat: Added new feature.txt file 62958d6

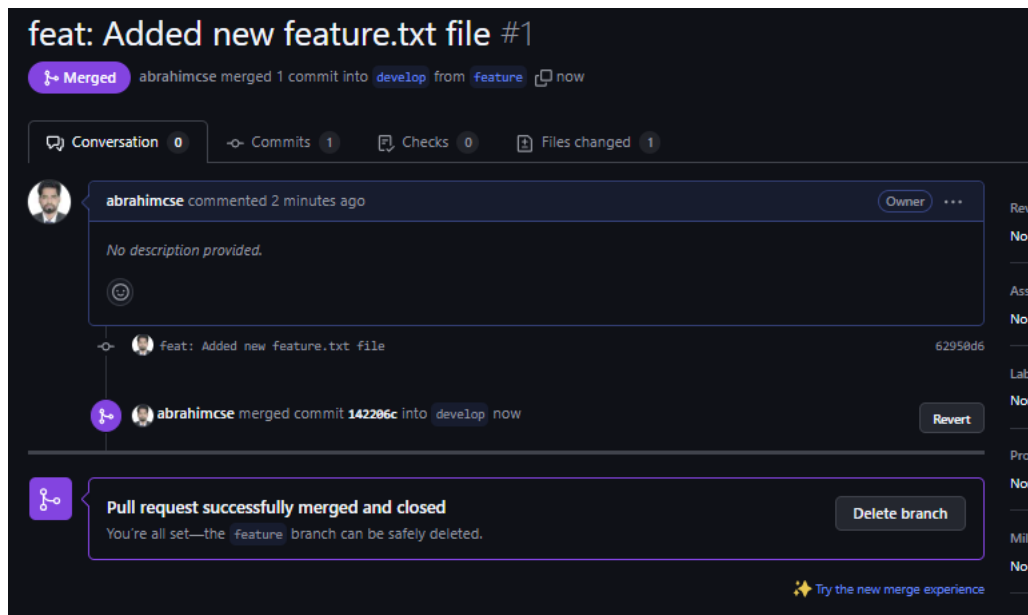
Merge pull request #1 from abrahimcse/feature

feat: Added new feature.txt file

This commit will be authored by 37096990+abrahimcse@users.noreply.github.com

[Confirm merge](#) [Cancel](#)

[Try the new merge experience](#)



3. Release Preparation:

- Create a release branch from `develop`, make final adjustments, commit, and push it to GitHub.

```
Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (feature)
$ git checkout develop
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.

Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (develop)
$ git checkout -b release/v1.0
Switched to a new branch 'release/v1.0'

Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (release/v1.0)
$ echo "Preparing for release v1.0" >> README.md

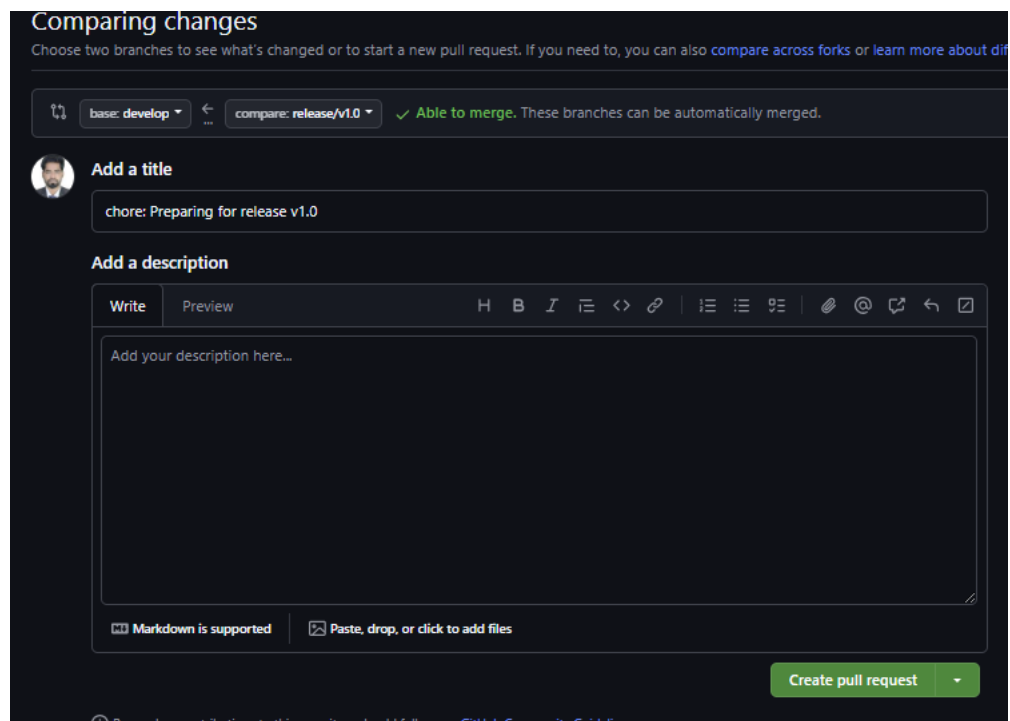
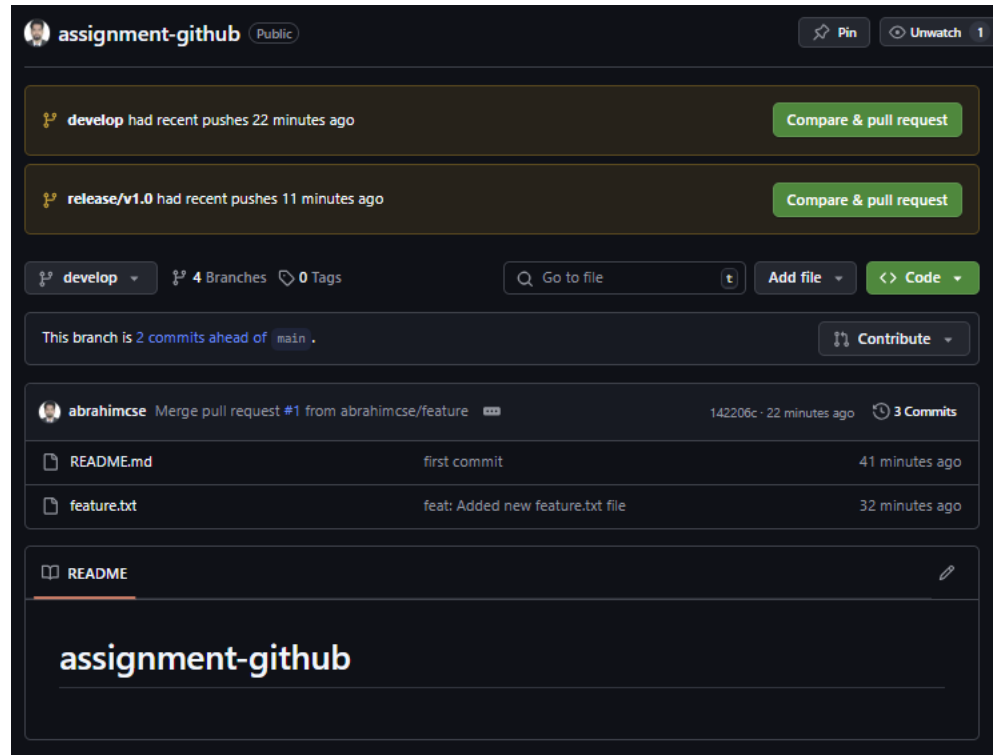
Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (release/v1.0)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it

Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (release/v1.0)
$ git commit -m "chore: Preparing for release v1.0"
[release/v1.0 aec0cfb] chore: Preparing for release v1.0
1 file changed, 1 insertion(+)

Abdur_Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (release/v1.0)
$ git push -u origin release/v1.0
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 302 bytes | 302.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'release/v1.0' on GitHub by visiting:
remote:   https://github.com/abrahimcse/assignment-github/pull/new/release/v1.0
remote:
To https://github.com/abrahimcse/assignment-github.git
 * [new branch]      release/v1.0 -> release/v1.0
branch 'release/v1.0' set up to track 'origin/release/v1.0'.
```

- Open a PR to merge the release branch into both `main` and `develop`, ensuring code review is conducted before merging.

Merge Release into Develop Branch



chore: Preparing for release v1.0 #2

Open abrahimcse wants to merge 1 commit into `develop` from `release/v1.0`

Conversation 0 Commits 1 Checks 0 Files changed 1

abrahimcse commented now

No description provided.

chore: Preparing for release v1.0

Require approval from specific reviewers before merging
Rulesets ensure specific people approve pull requests before they're merged. **Add rule**

Continuous integration has not been set up
GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.

✓ This branch has no conflicts with the base branch
Merging can be performed automatically.

Merge pull request You can also [open this in GitHub Desktop](#) or [view command line instructions](#).

[Try the new merge experience](#)

chore: Preparing for release v1.0 #2

Merged abrahimcse merged 1 commit into `develop` from `release/v1.0` now

Conversation 0 Commits 1 Checks 0 Files changed 1

abrahimcse commented 1 minute ago

No description provided.

chore: Preparing for release v1.0

abrahimcse merged commit `ecb5ae2` into `develop` now **Revert**

Pull request successfully merged and closed
You're all set—the `release/v1.0` branch can be safely deleted. **Delete branch**

[Try the new merge experience](#)

Merge Develop into Main Branch

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#). [Learn more about diff com](#)

base: main ← compare: develop ✓ Able to merge. These branches can be automatically merged.



Add a title

merge from Develop branch into main

Add a description

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Add your description here...

Markdown is supported

Paste, drop, or click to add files

Create pull request

merge from Develop branch into main #3

Open abrahimcse wants to merge 4 commits into main from develop



Conversation 0



Commits 4



Checks 0



Files changed 2



abrahimcse commented now

Owner

...

No description provided.



abrahimcse and others added 4 commits 38 minutes ago



feat: Added new feature.txt file

62950d6



Merge pull request #1 from abrahimcse/feature

Verified

142286c



chore: Preparing for release v1.0

aec0cfb



Merge pull request #2 from abrahimcse/release/v1.0

Verified

ecb5ae2



Require approval from specific reviewers before merging

[Rulesets](#) ensure specific people approve pull requests before they're merged.

Add rule

×



Continuous integration has not been set up

[GitHub Actions](#) and [several other apps](#) can be used to automatically catch bugs and enforce style.

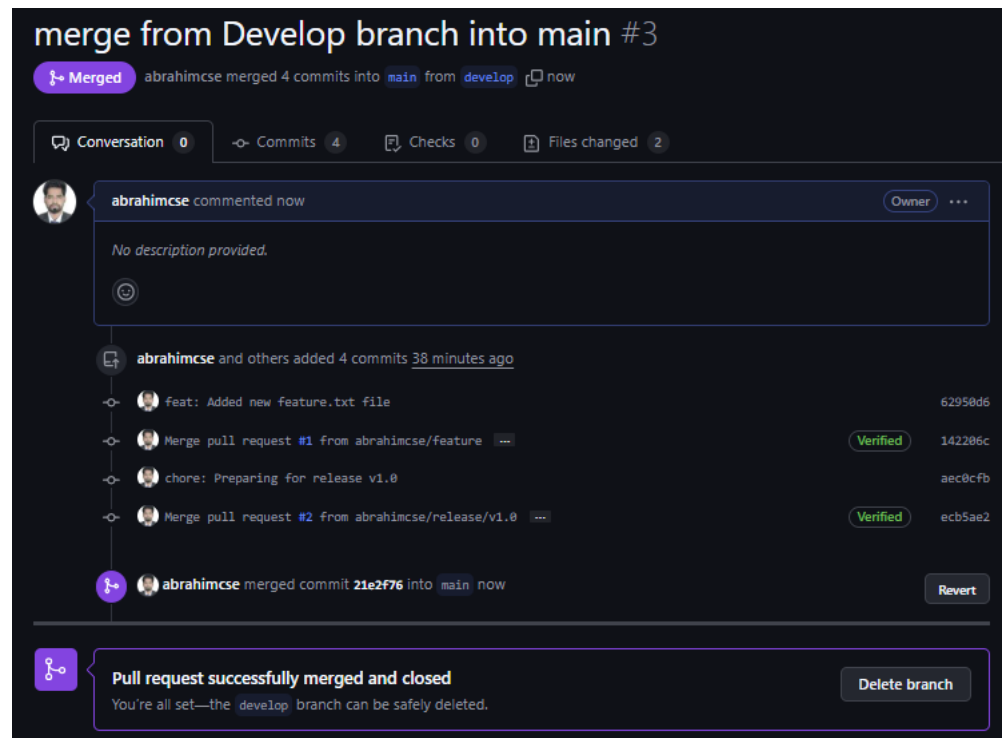


This branch has no conflicts with the base branch

Merging can be performed automatically.

Merge pull request

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).



4. Hotfix Management:

- Create a hotfix branch from `main`, apply a fix, commit, and push it to GitHub.

```
Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (main)
$ git checkout -b hotfix
Switched to a new branch 'hotfix'

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (hotfix)
$ git branch
  develop
  feature
* hotfix
  main
  release/v1.0


Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (hotfix)
$ echo "Hotfix applied to resolve urgent issue." >> README.md


Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (hotfix)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it




Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (hotfix)
$ git commit -m "fix: Applied urgent hotfix"
[hotfix 087f936] fix: Applied urgent hotfix
1 file changed, 1 insertion(+)

Abdur Rahim@DESKTOP-RDB9VJR MINGW64 /d/YourMentors/Assignment/assignment-github (hotfix)
$ git push -u origin hotfix
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 308 bytes | 308.00 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/abrahimcse/assignment-github/pull/new/hotfix
remote:
To https://github.com/abrahimcse/assignment-github.git
 * [new branch]      hotfix -> hotfix
branch 'hotfix' set up to track 'origin/hotfix'.
```


- Open a PR to merge the hotfix branch into both **main** and **develop**, completing the review process and merging.



 **assignment-github** Public Pin Unwatch 1



 **hotfix** had recent pushes 1 minute ago Compare & pull request

 **develop**  5 Branches  0 Tags t Add file <> Code

This branch is 1 commit behind **main** Contribute

 **abrahimcse** Merge pull request #2 from abrahimcse/release/v1.0 ecb5ae2 · 1 hour ago 5 Commits

 README.md	chore: Preparing for release v1.0	2 hours ago
 feature.txt	feat: Added new feature.txt file	2 hours ago



 **README** 


assignment-github

Preparing for release v1.0

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#) or [learn more about diff](#)

 **base: main**  **compare: hotfix** ✖ Can't automatically merge. Don't worry, you can still create the pull request.



 **Add a title**

fix: Applied urgent hotfix

Add a description



Write **Preview** H B I ≡ <> 🔗 | ≡ ≡ ≡ | 📎 @ ↻

Add your description here...


 Markdown is supported  Paste, drop, or click to add files

Create pull request



fix: Applied urgent hotfix #4


 **Open** abrahimcse wants to merge 1 commit into `main` from `hotfix` 

Conversation 0 Commits 1 Checks 0 Files changed 1

 **abrahimcse** commented now Owner ...

No description provided.


  fix: Applied urgent hotfix 087f936

 **This branch has conflicts that must be resolved**
Use the [web editor](#) or the [command line](#) to resolve conflicts.

Conflicting files

README.md


[Merge pull request](#) You can also [open this in GitHub Desktop](#) or [view command line instructions](#).

 Try the new merge experience

fix: Applied urgent hotfix #4

Resolving conflicts between `hotfix` and `main` and committing changes → `hotfix`

1 conflicting file

 README.md

README.md

```

1 # assignment-github
2 <<<<<< hotfix
3 Hotfix applied to resolve urgent iss
4 =====
5 Preparing for release v1.0
6 >>>>>> main
7
```


abrahimcse / assignment-github

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

fix: Applied urgent hotfix #4


Resolving conflicts between `hotfix` and `main` and committing changes → `hotfix` [Cancel merge](#)

1 conflicting file



README.md 

```


1 # assignment-github
2 Hotfix applied to resolve urgent issue.
3 Preparing for release v1.0
4
```

 Resolved



fix: Applied urgent hotfix #4



 **Open** abrahimcse wants to merge 1 commit into `main` from `hotfix` 



Conversation 0 Commits 1 Checks 0 Files changed 1


 **abrahimcse** commented 2 minutes ago Owner ...


No description provided.

  fix: Applied urgent hotfix 087f936


  Merge branch 'main' into hotfix Verified c6cc3e4


  **Require approval from specific reviewers before merging** Add rule ×
[Rulesets](#) ensure specific people approve pull requests before they're merged.


 **Continuous integration has not been set up**
[GitHub Actions](#) and [several other apps](#) can be used to automatically catch bugs and enforce style.

 **This branch has no conflicts with the base branch**
Merging can be performed automatically.

Merge pull request ▼ You can also [open this in GitHub Desktop](#) or view [command line instructions](#).


 Try the new merge experience

 Merge pull request #4 from abrahimcse/hotfix


fix: Applied urgent hotfix 

This commit will be authored by 37096990+abrahimcse@users.noreply.github.com


Confirm merge Cancel

 Try the new merge experience


fix: Applied urgent hotfix #4



Merged abrahimcse merged 2 commits into `main` from `hotfix`  now



Conversation 0 Commits 1 Checks 0 Files changed 1



 **abrahimcse** commented 4 minutes ago Owner ...


No description provided.




  fix: Applied urgent hotfix 087F936

  Merge branch 'main' into hotfix Verified c6cc3e4

  **abrahimcse** merged commit **52538cb** into `main` now Revert

 **Pull request successfully merged and closed** Delete branch

You're all set—the `hotfix` branch can be safely deleted.

 Try the new merge experience