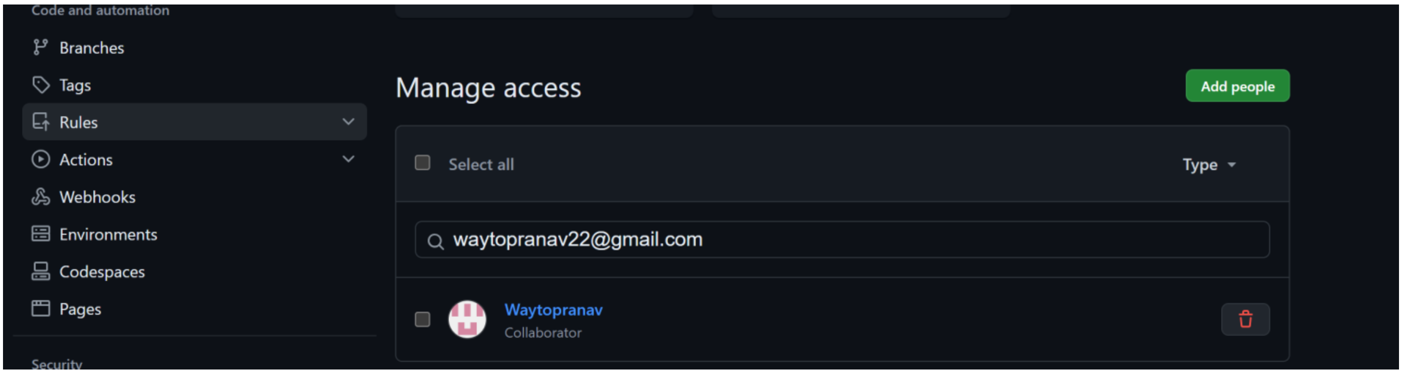
Name: Pranav Chaudhari

Task: Create a git repo with 2 branches (main, dev) respectively and then enable branch protection on main branch and code review for main branch, also brief about how or where to add code owner file in the git repo for those branches.

Github Repo: https://github.com/techdecipher/Repo-Production

Step 1 -- (invite a collaborator first, this is the first step as reviewers must be collaborators)

Invite collaborator = Repository (where you want the collaboration) > top bar > settings > Collaborators > Manage access > add people

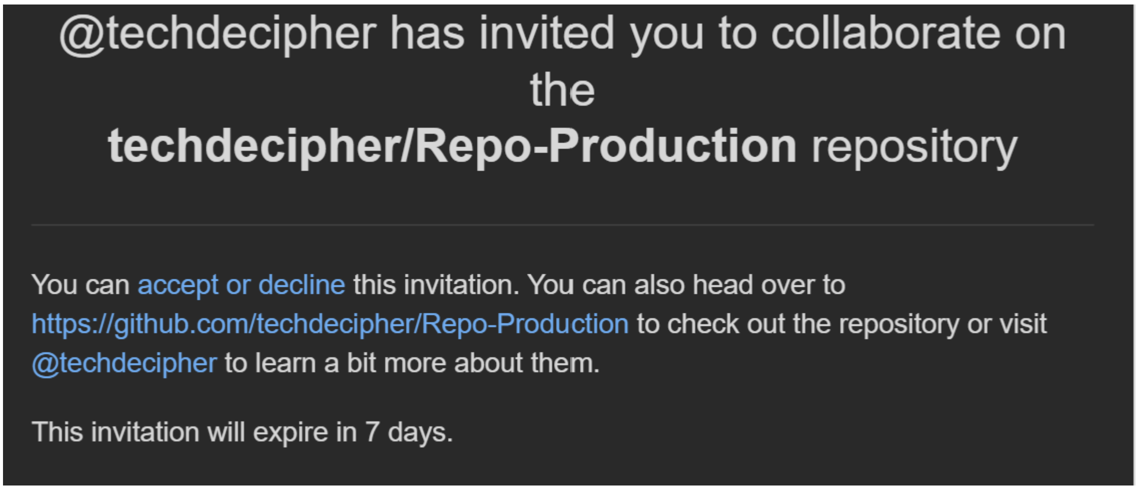


Manage access

waytopranav22@gmail.com

Waytopranav
Collaborator

Step 2 -- Collaborator will get email and he can then access the invitation. On the other account, accept the collaboration.

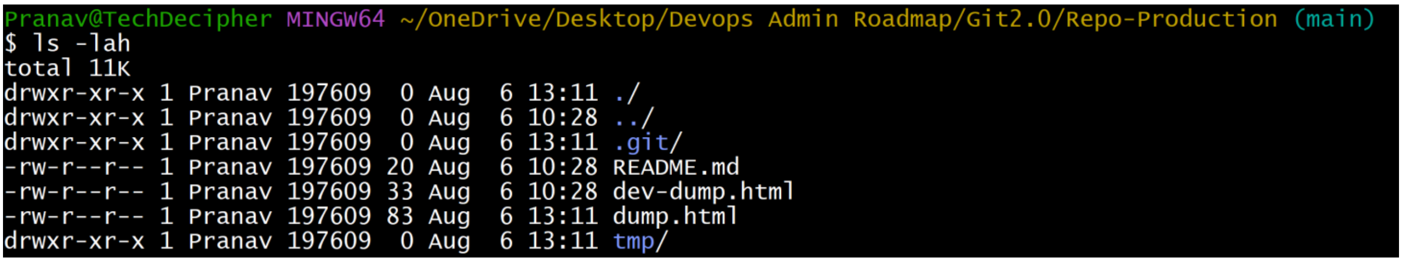


@techdecipher has invited you to collaborate on the **techdecipher/Repo-Production** repository

You can accept or decline this invitation. You can also head over to https://github.com/techdecipher/Repo-Production to check out the repository or visit @techdecipher to learn a bit more about them.

This invitation will expire in 7 days.

Step 3 -- On the Primary Account create 1 main branch "main" and add necessary file, after this create a new dev branch add files, commit, push.

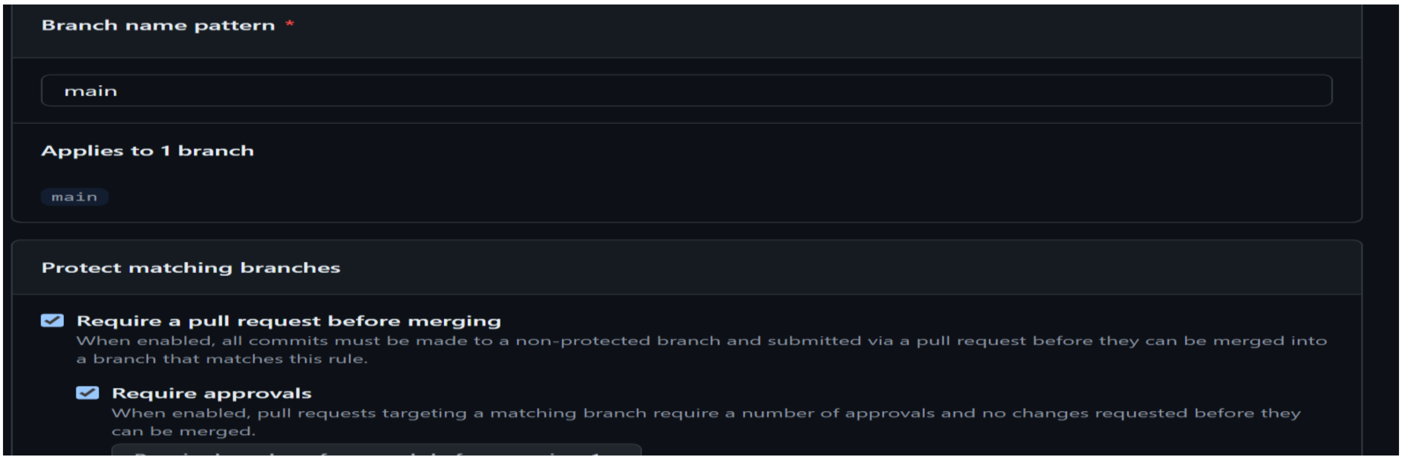


```
Pranav@TechDecipher MINGW64 ~/OneDrive/Desktop/Devops Admin Roadmap/Git2.0/Repo-Production (main)
$ ls -lah
total 11K
drwxr-xr-x 1 Pranav 197609  0 Aug  6 13:11 ./
drwxr-xr-x 1 Pranav 197609  0 Aug  6 10:28 ../
drwxr-xr-x 1 Pranav 197609  0 Aug  6 13:11 .git/
-rw-r--r-- 1 Pranav 197609 20 Aug  6 10:28 README.md
-rw-r--r-- 1 Pranav 197609 33 Aug  6 10:28 dev-dump.html
-rw-r--r-- 1 Pranav 197609 83 Aug  6 13:11 dump.html
drwxr-xr-x 1 Pranav 197609  0 Aug  6 13:11 tmp/
```

Branch Protection:

Step 4 -- On the Primary Account goto the Repository and follow below workflow to protect the branch, ie branch protection.

goto target Repo > target branch (the one you want to protect) > settings > Branches > enter branch name to protect > apply rules > create >



Branch name pattern *

main

Applies to 1 branch

main

Protect matching branches

☑ Require a pull request before merging

When enabled, all commits must be made to a non-protected branch and submitted via a pull request before they can be merged into a branch that matches this rule.

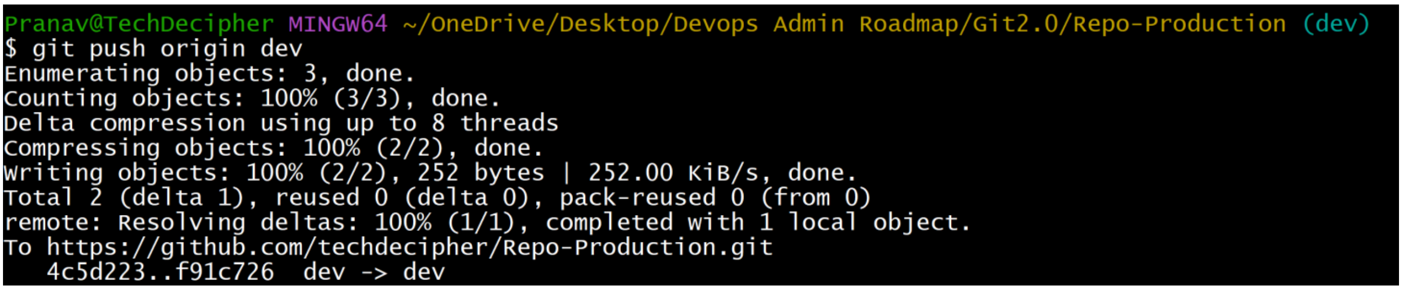
☑ Require approvals

When enabled, pull requests targeting a matching branch require a number of approvals and no changes requested before they can be merged.

Checked below settings – and save.

- Require a pull request before merging
- Require approvals
- Dismiss stale pull request approvals when new commits are pushed
- Do not allow bypassing the above settings

Step 5 -- On the Primary account, checkout the "dev" branch and make some changes, eg bug fixes to files, for these changes only we are going to make reviews, that is codereviews. Make changes, commit, and push to remote repo.

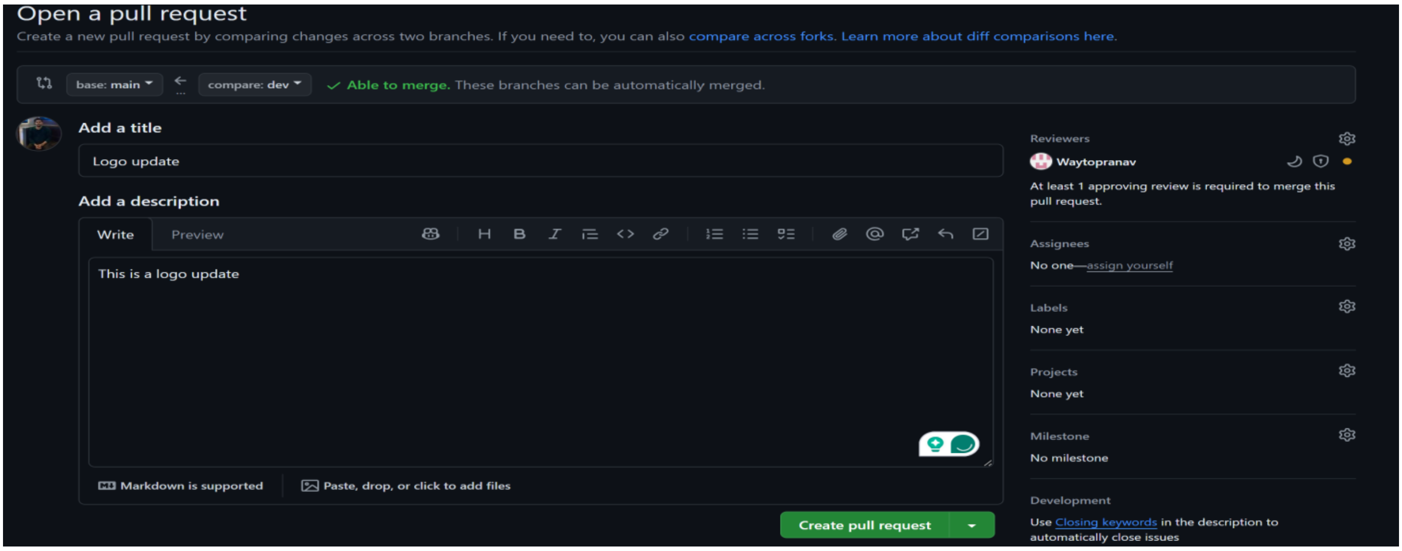


```
Pranav@TechDecipher MINGW64 ~/OneDrive/Desktop/Devops Admin Roadmap/Git2.0/Repo-Production (dev)
$ git push origin dev
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 252 bytes | 252.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/techdecipher/Repo-Production.git
   4c5d223..f91c726  dev -> dev
```

CodeReviews:

Step 6 -- CodeReviews part (create pull request) - create a PR request and add reviewers .

> Repo > pull-request > New pull request > Compare changes base (the base branch eg "main") - (compare branch eg "dev") beacause we have added branch protection on main branch > see changes, files changed, > Add a title: > Add a description: > add Reviewer (top right corner) and then >> click on Create pull request >



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 comparisons here.

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

Add a title

Logo update

Add a description

This is a logo update

Reviewers

Waytopranav

At least 1 approving review is required to merge this pull request.

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

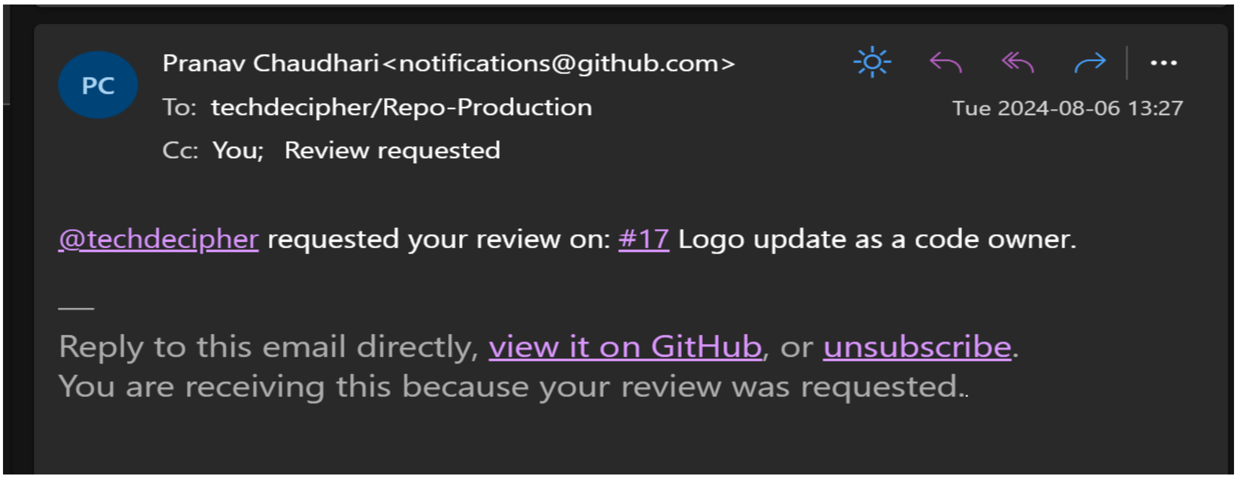
Milestone

No milestone

Development

Use Closing keywords in the description to automatically close issues

Step 7 -- CodeReview (doing code Review from reviewer side) -- The reviewer opens up the email and click on link to access the page.



Pranav Chaudhari<notifications@github.com>

To: techdecipher/Repo-Production

Tue 2024-08-06 13:27

Cc: You; Review requested

@techdecipher requested your review on: #17 Logo update as a code owner.

—

Reply to this email directly, view it on GitHub, or unsubscribe.

You are receiving this because your review was requested..

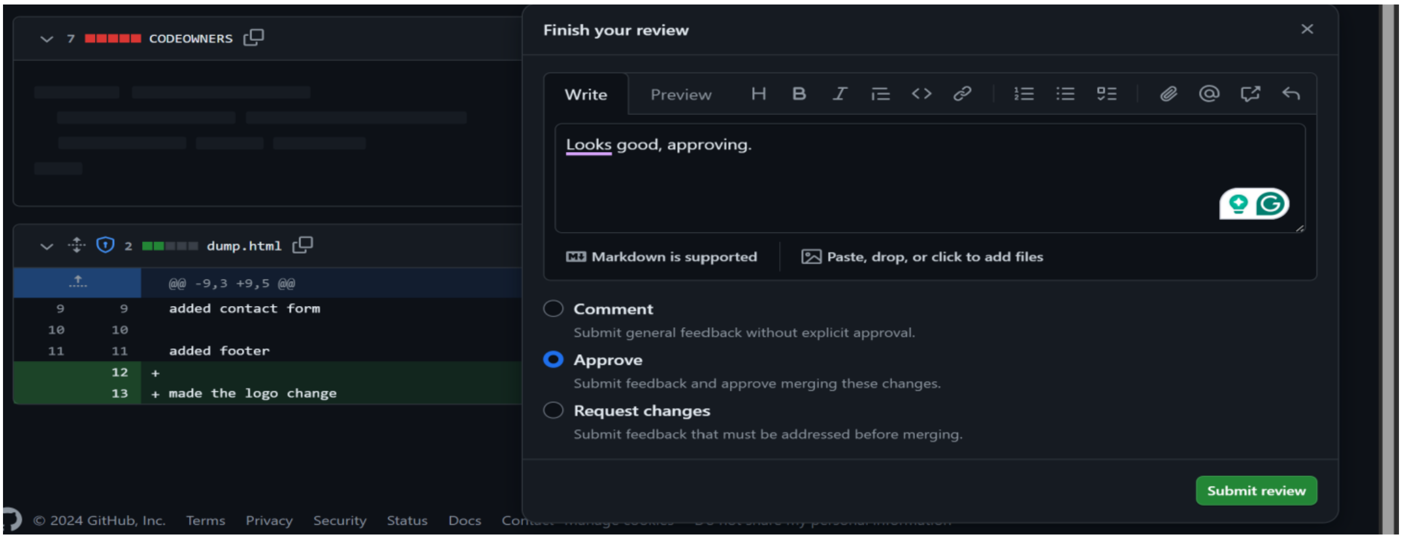
Once link is opened Read title, description and then > Add Review > It redirects to File changes> goto code and add your comment on code + icon (if necessary) > Once everything is fine click on > Review changes on top right corner > it gives you 3 options >Comment the changes, summary and custom message.

Comment: Submit general feedback without explicit approval.

Approve: Submit feedback and approve merging these changes.

Request changes: Ask a request change before merging.

Select Approve (assuming eveything is fine) > Submit Review > on redirected page > Merge pull request > confirm merge > and it wwill give > Pull request successfully merged and closed.



7 CODEOWNERS

2 dump.html

```
@@ -9,3 +9,5 @@
 9   9    added contact form
10  10
11  11    added footer
    12  +
    13  + made the logo change
```

Finish your review

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

Looks good, approving.

○ Comment
Submit general feedback without explicit approval.

● Approve
Submit feedback and approve merging these changes.

○ Request changes
Submit feedback that must be addressed before merging.

Submit review
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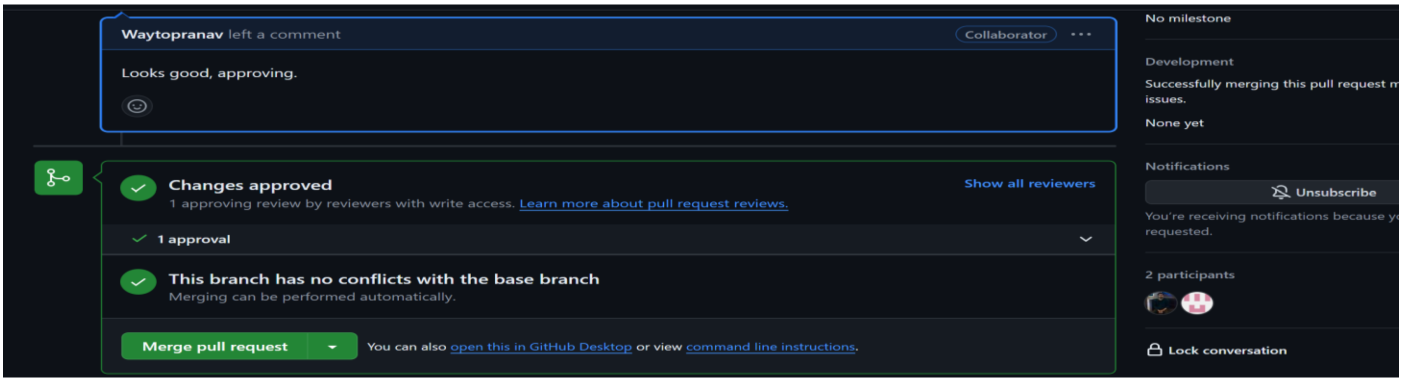


Waytopranav left a comment

Looks good, approving.

Changes approved

1 approving review by reviewers with write access. Learn more about pull request reviews.

✓ 1 approval

This branch has no conflicts with the base branch

Merging can be performed automatically.

You can also open this in GitHub Desktop or view command line instructions.

No milestone

Development

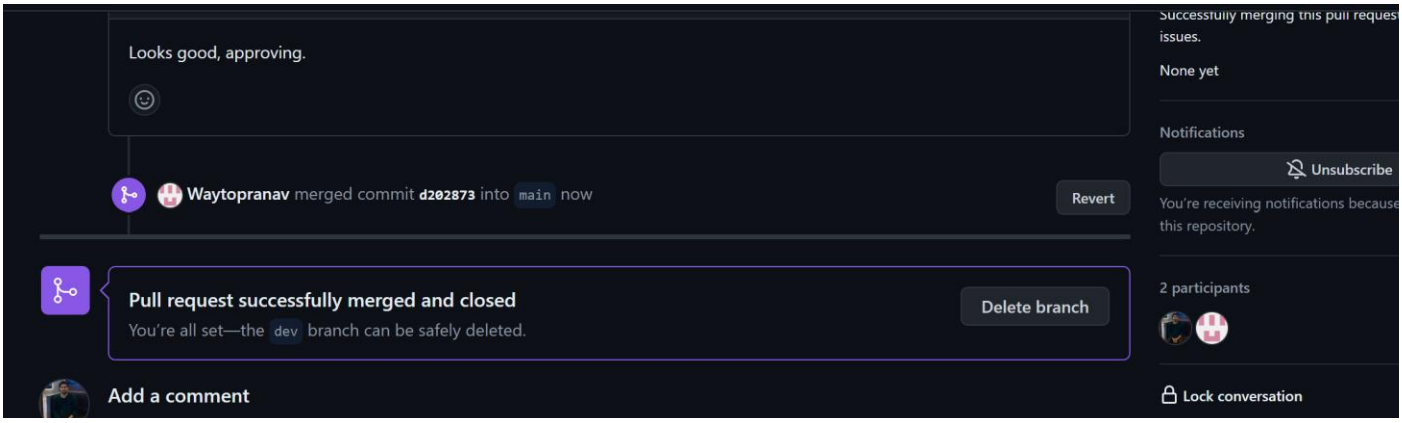
Successfully merging this pull request m
issues.

None yet

Notifications

You're receiving notifications because y
requested.

2 participants



Looks good, approving.

Waytopranav merged commit d202873 into main now

Pull request successfully merged and closed

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

Successfully merging this pull request
issues.

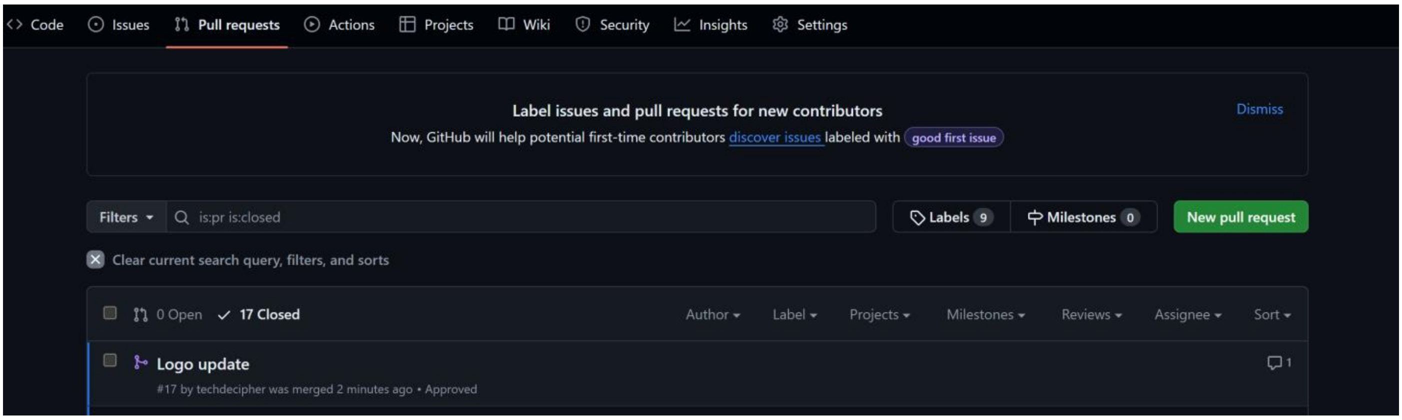
None yet

You're receiving notifications because
this repository.

2 participants

Step 9 -- Verify approval (From Primary account)

Repo > pull-request > check the listed PRs. (closed)



Label issues and pull requests for new contributors

Now, GitHub will help potential first-time contributors discover issues labeled with good first issue

is:pr is:closed

Clear current search query, filters, and sorts

0 Open ✓ 17 Closed

Logo update

#17 by techdecipher was merged 2 minutes ago • Approved

CODEOWNERS:

Step 10 -- Codeowners : A CODEOWNERS file is used to automate the code review process by automatically assigning reviewers to pull requests that affect certain files or directories. This ensures that the right people review the code, facilitating efficient collaboration.

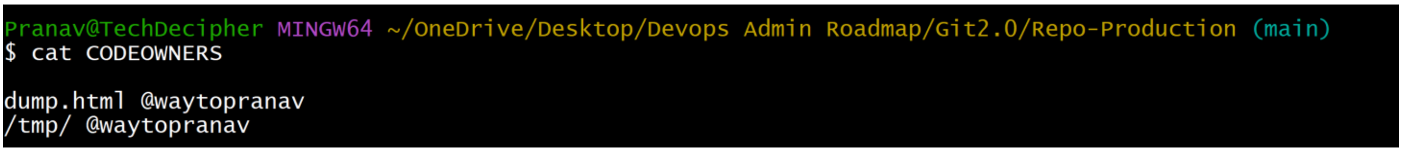
```
----File structure----
# Specific directories
/src/           @frontend-team
/src/backend/     @backend-owner @backend-team

# all Special files
*.js           @js-owner
*.css          @css-owner

# single specific file

dump.html       @waytopranav
README.md        @docs-owner
```

The file can be placed in 3 ways:

1. inside main branch path .
   eg - /CODEOWNERS
2. create .github folder in main branch and can place the codeowners file there
   eg- /.github/CODEOWNERS
3. create docs folder in main branch and can place the codeowners file there
   eg- /docs/CODEOWNERS

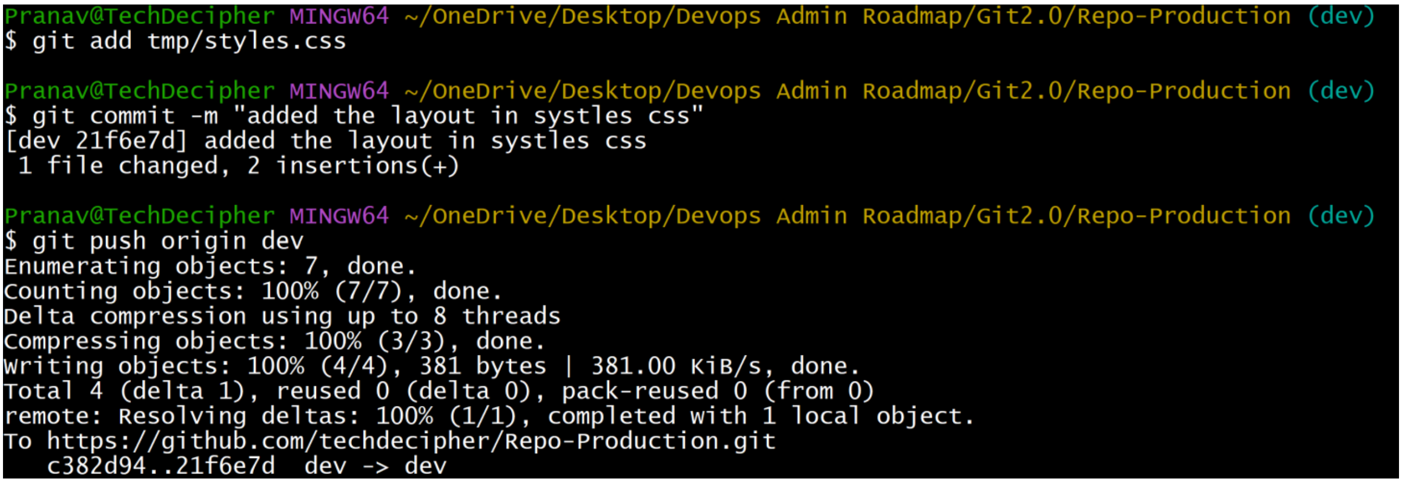
Step 11 – Added the CODEOWNERS file in the main branch using PR request method, approved it from the reviewers account, and made changes to target file which is set as rules in CODEOWNERS file, and created a PR request and it automatically assigned the reviewer who is responsible for reviewing the changes for that file.

My CODEOWNERS file



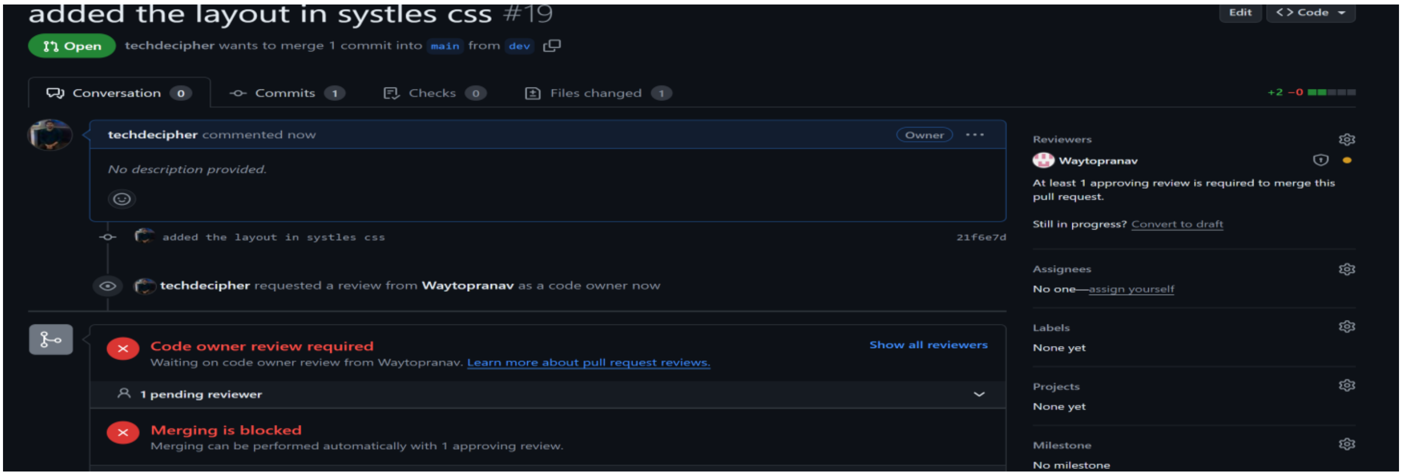
```
Pranav@TechDecipher MINGW64 ~/OneDrive/Desktop/Devops Admin Roadmap/Git2.0/Repo-Production (main)
$ cat CODEOWNERS

dump.html @waytopranav
/tmp/ @waytopranav
```

Checked out “dev” branch and made changes in the dev branch for file under /tmp/ directory and pushed it.



```
Pranav@TechDecipher MINGW64 ~/OneDrive/Desktop/Devops Admin Roadmap/Git2.0/Repo-Production (dev)
$ git add tmp/styles.css

Pranav@TechDecipher MINGW64 ~/OneDrive/Desktop/Devops Admin Roadmap/Git2.0/Repo-Production (dev)
$ git commit -m "added the layout in systles css"
[dev 21f6e7d] added the layout in systles css
 1 file changed, 2 insertions(+)

Pranav@TechDecipher MINGW64 ~/OneDrive/Desktop/Devops Admin Roadmap/Git2.0/Repo-Production (dev)
$ git push origin dev
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 381 bytes | 381.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/techdecipher/Repo-Production.git
   c382d94..21f6e7d  dev -> dev
```

Created pull review request from primary account and it automatically assigned the reviewers, ensuring codeowner file is working.



added the layout in systles css #19

Open — techdecipher wants to merge 1 commit into main from dev

techdecipher commented now — Owner

No description provided.

added the layout in systles css — 21f6e7d

techdecipher requested a review from Waytopranav as a code owner now

Code owner review required
Waiting on code owner review from Waytopranav. Learn more about pull request reviews.

1 pending reviewer

Merging is blocked
Merging can be performed automatically with 1 approving review.

Reviewers: Waytopranav

At least 1 approving review is required to merge this pull request.

Still in progress? Convert to draft

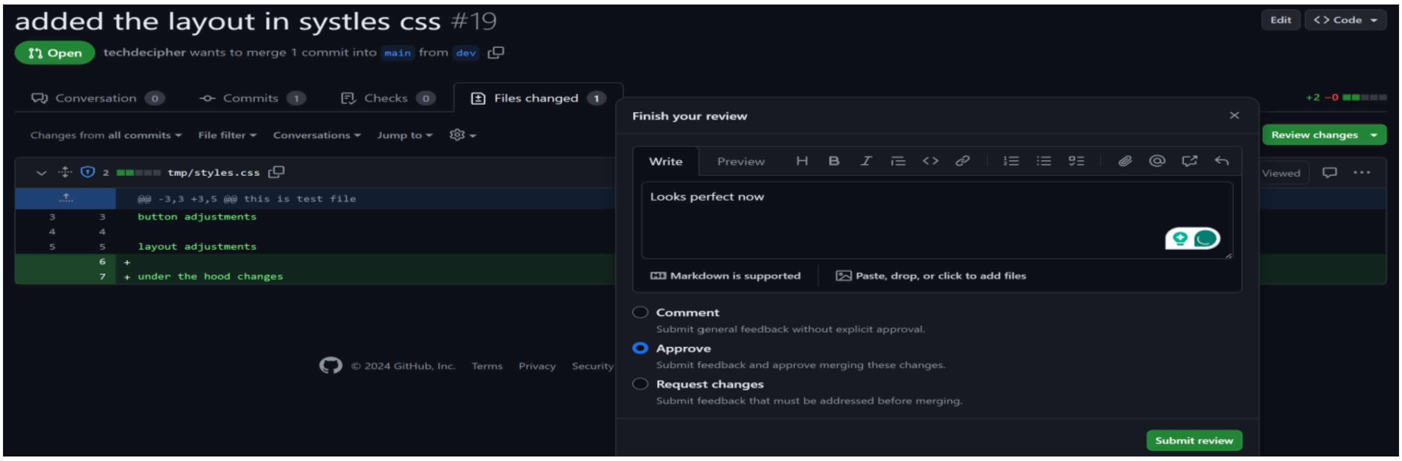
Assignees: No one—assign yourself

Labels: None yet

Projects: None yet

Milestone: No milestone

Step 12 -- On the Reviewers account, closed the review by approving and complete merge.



added the layout in systles css #19

Open — techdecipher wants to merge 1 commit into main from dev

```
2 tmp/styles.css
@@ -3,3 +3,5 @@ this is test file
3  3    button adjustments
4  4
5  5    layout adjustments
   6  +
   7  + under the hood changes
```

Finish your review

Looks perfect now

○ Comment
Submit general feedback without explicit approval.

● Approve
Submit feedback and approve merging these changes.

○ Request changes
Submit feedback that must be addressed before merging.

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