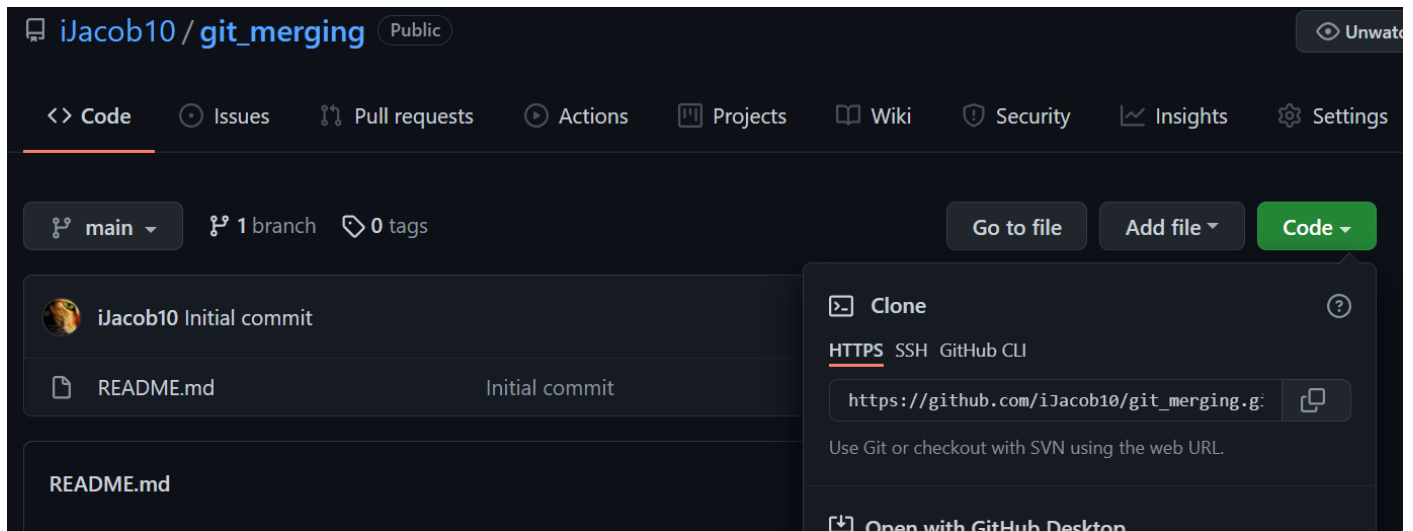


Steps to perform:

1. Start with the Production branch (master branch), and then create a HotFix and Integration branch
2. Subsequently, create Feature 1 and 2 branches that integrate to the Integration branch as shown in the above figure
3. Commit some changes in the Feature 2 branch and merge it into the Integration branch. Delete this branch once merging is complete
4. Commit some changes in the Feature 1 branch and rebase it to the Integration branch
5. Merge the Integration branch into Hotfix and Production branch to update these branches
6. Commit some changes in Feature 1 branch, and then merge it into Integration, Hotfix, and Production branch. Delete this branch once merging is complete
7. Commit some changes in the Hotfix branch and merge it into the Production as well as the Integration branch

https://github.com/iJacob10/git_merging.git



```
MINGW64:/d/git_merging
iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (main)
$ ls
README.md

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (main)
$ git branch -m main production

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (production)
$ git branch Hotfix

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (production)
$ git branch Integration

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (production)
$ git branch feature1 Integration

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (production)
$ git branch feature2 Integration

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (production)
$ git branch -a
Hotfix
Integration
feature1
feature2
* production
remotes/origin/HEAD -> origin/main
remotes/origin/main
```

```
MINGW64/d/git_merging
iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (production)
$ git config --global user.email "06iylinjacob@gmail.com"

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (production)
$ git config --global user.name "iJacob10"

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (production)
$ git remote add origin "https://github.com/iJacob10/git_merging.git"
fatal: remote origin already exists.

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (production)
$ git remote add origin1 "https://github.com/iJacob10/git_merging.git"

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (production)
$ git branch
  Hotfix
  Integration
  feature1
  feature2
* production

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (production)
$ git checkout -b feature2
fatal: A branch named 'feature2' already exists.

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (production)
$ git checkout feature2
Switched to branch 'feature2'
```

```
MINGW64/d/git_merging
iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature2)
$ echo "file from feature2 branch" >> new_feature2.txt

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature2)
$ git add .
warning: LF will be replaced by CRLF in new_feature2.txt.
The file will have its original line endings in your working directory

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature2)
$ git config core.autocrlf true

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature2)
$ git status
On branch feature2
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   new_feature2.txt

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature2)
$ echo "second file from feature2 branch" >> new_feature2a.txt

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature2)
$ git status
On branch feature2
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   new_feature2.txt

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        new_feature2a.txt

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature2)
$
```

```

i1jake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature2)
$ git status
On branch feature2
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   new_feature2.txt
        new file:   new_feature2a.txt

```

```

i1jake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature2)
$ git commit -m "first commit from feature2"
[feature2 6df91f2] first commit from feature2
 2 files changed, 2 insertions(+)
 create mode 100644 new_feature2.txt
 create mode 100644 new_feature2a.txt

```

```

i1jake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature2)
$ git checkout Integration
Switched to branch 'Integration'

```

```

i1jake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Integration)
$ git merge feature2
Updating 479c85d..6df91f2
Fast-forward
 new_feature2.txt | 1 +
 new_feature2a.txt | 1 +
 2 files changed, 2 insertions(+)
 create mode 100644 new_feature2.txt
 create mode 100644 new_feature2a.txt

```

```

i1jake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Integration)
$ git branch -d feature2
Deleted branch feature2 (was 6df91f2).

```

```

i1jake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Integration)
$ |

```

```

i1jake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature1)
$ echo "new file from feature1" >> new_feature1.txt

```

```

i1jake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature1)
$ echo "second file from feature1" >> new_feature1a.txt

```

```

i1jake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature1)
$ git add .
warning: LF will be replaced by CRLF in new_feature1.txt.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in new_feature1a.txt.
The file will have its original line endings in your working directory

```

```

i1jake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature1)
$ git commit -m "first commit from feature1"
[feature1 357f842] first commit from feature1
 2 files changed, 2 insertions(+)
 create mode 100644 new_feature1.txt
 create mode 100644 new_feature1a.txt

```

```

i1jake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature1)
$ git checkout Integration
Switched to branch 'Integration'

```

```

i1jake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Integration)
$ git branch
  Hotfix
* Integration
  feature1
  production

```

```

i1jake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Integration)
$ git rebase feature1
First, rewinding head to replay your work on top of it...
Applying: first commit from feature2

```

```

i1jake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Integration)

```

```
i1ake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Integration)
$ git checkout Hotfix
Switched to branch 'Hotfix'
```

```
i1ake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Hotfix)
```

```
$ git merge Integration
Updating 479c85d..61761ef
Fast-forward
 new_feature1.txt | 1 +
 new_feature1a.txt | 1 +
 new_feature2.txt | 1 +
 new_feature2a.txt | 1 +
 4 files changed, 4 insertions(+)
 create mode 100644 new_feature1.txt
 create mode 100644 new_feature1a.txt
 create mode 100644 new_feature2.txt
 create mode 100644 new_feature2a.txt
```

```
i1ake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Hotfix)
```

```
$ git checkout production
Switched to branch 'production'
Your branch is up to date with 'origin/main'.
```

```
i1ake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (production)
```

```
$ git merge Integration
Updating 479c85d..61761ef
Fast-forward
 new_feature1.txt | 1 +
 new_feature1a.txt | 1 +
 new_feature2.txt | 1 +
 new_feature2a.txt | 1 +
 4 files changed, 4 insertions(+)
 create mode 100644 new_feature1.txt
 create mode 100644 new_feature1a.txt
 create mode 100644 new_feature2.txt
 create mode 100644 new_feature2a.txt
```

```
i1ake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (production)
```

```
$ git checkout feature1
Switched to branch 'feature1'
```

```
i1ake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature1)
```

```
$ echo "third file from feature1" >> new_feature1b.txt
```

```
i1ake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature1)
```

```
$ git add .
warning: LF will be replaced by CRLF in new_feature1b.txt.
The file will have its original line endings in your working directory
```

```
i1ake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature1)
```

```
$ git commit -m "second commit from feature1"
error: pathspec '-' did not match any file(s) known to git
error: pathspec 'm' did not match any file(s) known to git
error: pathspec 'second commit from feature1' did not match any file(s) known to git
```

```
i1ake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature1)
```

```
$ git commit -m "second commit from feature1"
[feature1 62775e3] second commit from feature1
 1 file changed, 1 insertion(+)
 create mode 100644 new_feature1b.txt
```

```
i1ake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (feature1)
```

```
$ git checkout Hotfix
Switched to branch 'Hotfix'
```

```
i1ake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Hotfix)
```

```
$ git merge feature1
Merge made by the 'recursive' strategy.
 new_feature1b.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 new_feature1b.txt
```

```
i1ake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Hotfix)
```

```
$ git checkout production
```

```

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Hotfix)
$ git checkout production
Switched to branch 'production'
Your branch is ahead of 'origin/main' by 2 commits.
(use "git push" to publish your local commits)

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (production)
$ git merge feature1
Merge made by the 'recursive' strategy.
 new_feature1b.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 new_feature1b.txt

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (production)
$ git checkout Integration
Switched to branch 'Integration'

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Integration)
$ git merge feature1
Merge made by the 'recursive' strategy.
 new_feature1b.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 new_feature1b.txt

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Integration)
$ git branch -d feature1
Deleted branch feature1 (was 62775e3).

```

```

MINGW64/d/git_merging
iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Integration)
$ git branch
Hotfix
* Integration
production

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Integration)
$ git checkout Hotfix
Switched to branch 'Hotfix'

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Hotfix)
$ ls
new_feature1.txt new_feature1a.txt new_feature1b.txt new_feature2.txt new_feature2a.txt README.md

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Hotfix)
$ echo "first file from Hotfix" >> new_hotfix.txt

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Hotfix)
$ git add .
warning: LF will be replaced by CRLF in new_hotfix.txt.
The file will have its original line endings in your working directory

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Hotfix)
$ git commit -m "second commit from Hotfix"
[Hotfix 72c3975] second commit from Hotfix
 1 file changed, 1 insertion(+)
 create mode 100644 new_hotfix.txt

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Hotfix)
$ git commit --amend -m "first commit from Hotfix"
[Hotfix 288f388] first commit from Hotfix
Date: Wed Oct 6 08:31:44 2021 +0530
 1 file changed, 1 insertion(+)
 create mode 100644 new_hotfix.txt

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Hotfix)
$

```

```

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Hotfix)
$ git checkout production
Switched to branch 'production'
Your branch is ahead of 'origin/main' by 4 commits.
(use "git push" to publish your local commits)

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (production)
$ git merge Hotfix
Merge made by the 'recursive' strategy.
 new_hotfix.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 new_hotfix.txt

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (production)
$ git checkout Integration
Switched to branch 'Integration'

iJake@LAPTOP-B80SJ2V3 MINGW64 /d/git_merging (Integration)
$ git merge Hotfix
Merge made by the 'recursive' strategy.
 new_hotfix.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 new_hotfix.txt

```

Pushing the code

iJacob10 / git_mergingPublic

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

Integration had recent pushes 1 minute ago

Compare & pull request

main

2 branches0 tags

Go to file

Add file

Code

iJacob10 Initial commit

479c85d1 hour ago

1 commit

README.md

Initial commit

1 hour ago

README.md

Integration #1

EditOpen with

Open

iJacob10 wants to merge 7 commits into main from Integration

Conversation0

Commits7

Checks0

Files changed6

+6-0

iJacob10 commented now

Owner

No description provided.

iJacob10 added 7 commits 20 minutes ago

first commit from feature1357f842

first commit from feature261761ef

second commit from feature162775e3

Merge branch 'feature1' into Hotfixc712165

Merge branch 'feature1' into Integration8489c2c

first commit from Hotfix288f388

Merge branch 'Hotfix' into Integration78af597

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.

Reviewers

No reviews

Still in progress? Convert to draft

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

No milestone

Linked issues

Successfully merging this pull request may close these issues.

None yet

Notifications

Customize

Unsubscribe

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

Integration #1

EditOpen with

Merged

iJacob10 merged 7 commits into main from Integration 11 seconds ago

Conversation0

Commits7

Checks0

Files changed6

+6-0

iJacob10 commented 1 minute ago

Owner

No description provided.

iJacob10 added 7 commits 21 minutes ago

first commit from feature1357f842

first commit from feature261761ef

second commit from feature162775e3

Merge branch 'feature1' into Hotfixc712165

Merge branch 'feature1' into Integration8489c2c

first commit from Hotfix288f388

Merge branch 'Hotfix' into Integration78af597

iJacob10 merged commit 1aacb1 into main 11 seconds ago

Revert

Pull request successfully merged and closed

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

Delete branch

Reviewers

No reviews

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

No milestone

Linked issues

Successfully merging this pull request may close these issues.

None yet

Notifications


Customize

Unsubscribe

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

 iJacob10 • just now

 iJacob10 • 2m

 iJacob10 • 11m iJacob10 • 11m

git_merging

Public

IssuesPull requestsActionsProjectsWikiSecurityInsightsSettings

production3 branches0 tags

Go to fileAdd fileCode

Switch branches/tags

Find or create a branch...

BranchesTags

✓ productiondefault

Hotfix

Integration

View all branches

674feeb12 seconds ago13 commits

clone12 seconds ago

first commit from feature126 minutes ago

first commit from feature126 minutes ago

second commit from feature121 minutes ago

first commit from feature225 minutes ago

first commit from feature225 minutes ago

first commit from Hotfix15 minutes ago

README.md

git_merging

 MINGW64:/d/git_merging[illegible]