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- [Create a new repository with a template](#)
- [Initialize git-flow](#)
- [Create a feature branch for project setup with the proper Zoho task ID \(example: TP2-T1299 Project Setup\)](#)
- [Create a sub-branch from the project setup branch and perform squash, reset, rebase and cherrypick](#) .

Practice below mentioned scenario and decide which one to use from rebase, cherry-pick, reset or squash and how,

1. [Create a branch from the develop](#)
2. [Add a commit message hook to the repo.](#)
3. [Perform multiple commits in the new branch](#)
4. [Create PR to develop.](#)
5. [PR should be small in size, It's recommended to do one commit per PR. However, based on the situation we can have multiple commits in PR. e.g. if someone is doing 10 bug fixes which are one-liner fixes in such cases instead of 10 different PRs you can do 10 commits in a single PR.](#)
6. [Create another branch from develop given your previous PR is still in review state](#)
7. [Now commit something in your current branch and push it](#)
8. [In the meantime, your previous PR has been merged to develop](#)
9. [Create a PR for the current branch given your branch should be up to date with develop branch](#)
10. [For any new build release add a version tag to that specific commit to keep track of each version.](#)
11. [Create 2 another branch \(3rd and 4th\) from develop, push read me changes to 3rd brach.](#)
12. [Cherry pick 3rd branch's commit to 4th branch.](#)
13. [Change commit message in 4th branch](#)
14. [add 3 commit to 4th branch and delete last commit.](#)

Create a new repository with a template

- Initialized Repository

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project
$ git init
Initialized empty Git repository in C:/Users/aman.rajput/downloads/git-exercise-project/.git/
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (master)
$ git status
On branch master

Initial commit

nothing to commit (create/copy files and use "git add" to track)
```

- Create initial template files

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (master)
$ git status
On branch master

Initial commit

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

    LICENSE.txt
    README.txt
    gitignore.txt

nothing added to commit but untracked files present (use "git add" to track)
```

- Making initial commits

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (master)
$ git add .

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (master)
$ git status
On branch master

Initial commit

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

    new file:  LICENSE.txt
    new file:  README.txt
    new file:  gitignore.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (master)
$ git commit -m "Initial commit: Add README, gitignore, and LICENSE"
[master (root-commit) 2fe46d3] Initial commit: Add README, gitignore, and LICENSE
  3 files changed, 31 insertions(+)
  create mode 100644 LICENSE.txt
  create mode 100644 README.txt
  create mode 100644 gitignore.txt
```

- Created Github repository and pushed

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (main)
$ git remote set-url origin git@github.com:AmanRajputDE/git-exercise-project.git

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (main)
$ git remote -v
origin  git@github.com:AmanRajputDE/git-exercise-project.git (fetch)
origin  git@github.com:AmanRajputDE/git-exercise-project.git (push)

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (main)
$ git push -u origin main
Enter passphrase for key '/c/Users/aman.rajput/.ssh/id_ed25519':
Counting objects: 5, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 715 bytes | 0 bytes/s, done.
Total 5 (delta 0), reused 0 (delta 0)
remote: To git@github.com:AmanRajputDE/git-exercise-project.git
 * [new branch]      main -> main
Branch main set up to track remote branch main from origin.
```

Initialize git-flow

- Initialized git flow

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (main)
$ git flow init

Which branch should be used for bringing forth production releases?
- main
Branch name for production releases: [main]
Branch name for "next release" development: [develop]

How to name your supporting branch prefixes?
Feature branches? [feature/]
Release branches? [release/]
Hotfix branches? [hotfix/]
Support branches? [support/]
Version tag prefix? []
```

- Pushed develop branch to GitHub

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git push -u origin develop
Enter passphrase for key '/c/Users/aman.rajput/.ssh/id_ed25519':
Total 0 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'develop' on GitHub by visiting:
remote:     https://github.com/AmanRajputDE/git-exercise-project/pull/new/develop
remote:
To git@github.com:AmanRajputDE/git-exercise-project.git
 * [new branch]      develop -> develop
Branch develop set up to track remote branch develop from origin.
```

Create a feature branch for project setup with the proper Zoho task ID (example: TP2-T1299_Project_Setup)

- Created a feature branch with Zoho task ID

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git flow feature start TE-T84_Project_Setup
Switched to a new branch 'feature/TE-T84_Project_Setup'

Summary of actions:
- A new branch 'feature/TE-T84_Project_Setup' was created, based on 'develop'
- You are now on branch 'feature/TE-T84_Project_Setup'

Now, start committing on your feature. When done, use:

  git flow feature finish TE-T84_Project_Setup
```

Commit project setup

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup)
$ git status
on branch feature/TE-T84_Project_Setup
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    config.txt
    main.txt
    project-info.txt

nothing added to commit but untracked files present (use "git add" to track)
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup)
$ git add .

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup)
$ git commit -m "TE-T84: Add initial project structure and configuration files"
[feature/TE-T84_Project_Setup b362414] TE-T84: Add initial project structure and configuration files
 3 files changed, 22 insertions(+)
  create mode 100644 config.txt
  create mode 100644 main.txt
  create mode 100644 project-info.txt
```

Pushed the feature branch to github

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup)
$ git branch
  develop
* feature/TE-T84_Project_Setup
  main

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup)
$ git push -u origin feature/TE-T84_Project_Setup
Enter passphrase for key '/c/Users/aman.rajput/.ssh/id_ed25519':
Counting objects: 5, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 838 bytes | 0 bytes/s, done.
Total 5 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'feature/TE-T84_Project_Setup' on GitHub by visiting:
remote:   https://github.com/AmanRajputDE/git-exercise-project/pull/new/feature/TE-T84_Pro
ject_Setup
remote:
To git@github.com:AmanRajputDE/git-exercise-project.git
 * [new branch]      feature/TE-T84_Project_Setup -> feature/TE-T84_Project_Setup
Branch feature/TE-T84_Project_Setup set up to track remote branch feature/TE-T84_Project_Setu
p from origin.
```

Create a sub-branch from the project setup branch and perform squash, reset, rebase and cherrypick.

- Create a sub-branch from the project setup branch

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup)
$ git checkout -b feature/TE-T84_Project_Setup_SubBranch
Switched to a new branch 'feature/TE-T84_Project_Setup_SubBranch'

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup
_SubBranch)
$ |
```

- Commit 1

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup
_SubBranch)
$ git add utils.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup
_SubBranch)
$ git commit -m "Add formatDate utility function"
[feature/TE-T84_Project_Setup_SubBranch 7ac272e] Add formatDate utility function
 1 file changed, 6 insertions(+)
 create mode 100644 utils.txt
```

- Commit 2

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup
_SubBranch)
$ git add utils.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup
_SubBranch)
$ git commit -m "Add capitalizeString utility function"
[feature/TE-T84_Project_Setup_SubBranch a8d5833] Add capitalizeString utility function
 1 file changed, 5 insertions(+)
```

- Commit 3

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup_SubBranch)
$ git add utils.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup_SubBranch)
$ git commit -m "Add email validation utility function"
[feature/TE-T84_Project_Setup_SubBranch 480d05a] Add email validation utility function
 1 file changed, 6 insertions(+)

```

- **Practicing squashing using rebase -i**

- Now squashing the last 3 commits into 1

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup_SubBranch)
$ git log --oneline
480d05a Add email validation utility function
a8d5833 Add capitalizeString utility function
7ac272e Add formatDate utility function
b362414 TE-T84: Add initial project structure and configuration files
2fe46d3 Initial commit: Add README, gitignore, and LICENSE

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup_SubBranch)
$ git rebase -i HEAD~3
[detached HEAD 181f4e8] Add formatDate utility function
Date: Wed Jan 28 15:36:33 2026 +0530
 1 file changed, 17 insertions(+)
 create mode 100644 utils.txt
Successfully rebased and updated refs/heads/feature/TE-T84_Project_Setup_SubBranch.

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup_SubBranch)
$ git log --oneline
181f4e8 Add formatDate utility function
b362414 TE-T84: Add initial project structure and configuration files
2fe46d3 Initial commit: Add README, gitignore, and LICENSE

```

```

.git > rebase-merge > git-rebase-todo
1 pick 7ac272e Add formatDate utility function
2 squash a8d5833 Add capitalizeString utility function
3 squash 480d05a Add email validation utility function
4
5 # Rebase b362414..480d05a onto b362414 (3 command(s))
6 #
7 # Commands:
8 # p, pick = use commit
9 # r, reword = use commit, but edit the commit message
10 # e, edit = use commit, but stop for amending
11 # s, squash = use commit, but meld into previous commit
12 # f, fixup = like "squash", but discard this commit's log message
13 # x, exec = run command (the rest of the line) using shell
14 #
15 # These lines can be re-ordered; they are executed from top to bottom.
16 #
17 # If you remove a line here THAT COMMIT WILL BE LOST.
18 #
19 # However, if you remove everything, the rebase WILL be aborted.
20 # Go to Settings to activate Windows.
21 # Note that empty commits are commented out

```

- **Practicing reset**

- Adding a temporary file

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup_SubBranch)
$ git add temp.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup_SubBranch)
$ git status
On branch feature/TE-T84_Project_Setup_SubBranch
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   temp.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup_SubBranch)
$ git commit -m "Add temporary file"
[feature/TE-T84_Project_Setup_SubBranch 4f242d5] Add temporary file
 1 file changed, 4 insertions(+)
 create mode 100644 temp.txt
```

- Git reset --soft
- The file moved from commit to staged area

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup_SubBranch)
$ git reset --soft HEAD~1

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup_SubBranch)
$ git status
On branch feature/TE-T84_Project_Setup_SubBranch
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   temp.txt
```

- Git reset –mixed
- The file unstaged using the mixed reset type

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup_SubBranch)
$ git reset --mixed HEAD~1

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup_SubBranch)
$ git status
On branch feature/TE-T84_Project_Setup_SubBranch
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    temp.txt

nothing added to commit but untracked files present (use "git add" to track)
```

- Git reset –hard
- This removes the files from working directory altogether.

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup_SubBranch)
$ git reset --hard HEAD~1
HEAD is now at 181f4e8 Add formatDate utility function
```

- **Practicing Rebase**
- Commit 1

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup  
_SubBranch)  
$ git add logger.txt  
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup  
_SubBranch)  
$ git commit -m "Add logger module with info logging"  
[feature/TE-T84_Project_Setup_SubBranch e29d16d] Add logger module with info logging  
1 file changed, 5 insertions(+)  
create mode 100644 logger.txt
```

- Commit 2

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup  
_SubBranch)  
$ git add logger.txt  
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup  
_SubBranch)  
$ git commit -m "Add error logging to logger module"  
[feature/TE-T84_Project_Setup_SubBranch 472ba08] Add error logging to logger module  
1 file changed, 5 insertions(+), 1 deletion(-)
```

- Commit 3

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup  
_SubBranch)  
$ git add logger.txt  
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup  
_SubBranch)  
$ git commit -m "Add warning logging to logger module"  
[feature/TE-T84_Project_Setup_SubBranch ce92218] Add warning logging to logger module  
1 file changed, 4 insertions(+)
```

- **Practicing rebase in git**

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup  
_SubBranch)  
$ git rebase -i HEAD~3
```

- Reordering from this

```

git > rebase-merge > git-rebase-todo
1 pick e29d16d Add logger module with info logging
2 pick 472ba08 Add error logging to logger module
3 pick ce92218 Add warning logging to logger module
4
5 # Rebase 181f4e8..ce92218 onto 181f4e8 (3 command(s))
6 #
7 # Commands:
8 # p, pick = use commit
9 # r, reword = use commit, but edit the commit message
10 # e, edit = use commit, but stop for amending
11 # s, squash = use commit, but meld into previous commit
12 # f, fixup = like "squash", but discard this commit's log message
13 # x, exec = run command (the rest of the line) using shell
14 #
15 # These lines can be re-ordered; they are executed from top to bottom
16 #
17 # If you remove a line here THAT COMMIT WILL BE LOST.
18 #
19 # However, if you remove everything, the rebase will be aborted.
20 # Go to Settings to activate Windows.
21 # Note that empty commits are commented out

```

- To this

```

git > rebase-merge > git-rebase-todo
1 pick e29d16d Add logger module with info logging
3 pick ce92218 Add warning logging to logger module
2 pick 472ba08 Add error logging to logger module
4
5 # Rebase 181f4e8..ce92218 onto 181f4e8 (3 command(s))
6 #
7 # Commands:
8 # p, pick = use commit
9 # r, reword = use commit, but edit the commit message
10 # e, edit = use commit, but stop for amending
11 # s, squash = use commit, but meld into previous commit
12 # f, fixup = like "squash", but discard this commit's log message
13 # x, exec = run command (the rest of the line) using shell
14 #
15 # These lines can be re-ordered; they are executed from top to bottom
16 #
17 # If you remove a line here THAT COMMIT WILL BE LOST.
18 #
19 # However, if you remove everything, the rebase will be aborted.
20 # Go to Settings to activate Windows.
21 #

```

- Practicing CHERRY-PICK

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup
SubBranch)
$ git checkout feature/TE-T84_Project_Setup
Switched to branch 'feature/TE-T84_Project_Setup'
Your branch is up-to-date with 'origin/feature/TE-T84_Project_Setup'.
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup
)
$ git status
On branch feature/TE-T84_Project_Setup
Your branch is up-to-date with 'origin/feature/TE-T84_Project_Setup'.
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    database.txt

nothing added to commit but untracked files present (use "git add" to track)
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup
)
$ git add database.txt

```

- Cherry picking the **database.txt** commit from branch **feature/TE-T84_Project_Setup** to branch **feature/TE-T84_Project_Setup_SubBranch**

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup
)
$ git log --oneline -1
9ec852d Add database connection module
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup
)
$ git checkout feature/TE-T84_Project_Setup_SubBranch
Switched to branch 'feature/TE-T84_Project_Setup_SubBranch'
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup
SubBranch)
$ git cherry-pick 9ec852d
[feature/TE-T84_Project_Setup_SubBranch a6ffeda] Add database connection module
  Date: Wed Jan 28 16:13:27 2026 +0530
  1 file changed, 10 insertions(+)
  create mode 100644 database.txt

```

- Pushing branch **feature/TE-T84_Project_Setup_SubBranch** to GitHub

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup
SubBranch)
$ git push -u origin feature/TE-T84_Project_Setup_SubBranch
Enter passphrase for key '/c/Users/aman.rajput/.ssh/id_ed25519':
Counting objects: 15, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (15/15), done.
Writing objects: 100% (15/15), 1.74 KiB | 0 bytes/s, done.
Total 15 (delta 7), reused 0 (delta 0)
remote: Resolving deltas: 100% (7/7), completed with 1 local object.
remote:
remote: Create a pull request for 'feature/TE-T84_Project_Setup_SubBranch' on GitHub by visiting:
remote:     https://github.com/AmanRajputDE/git-exercise-project/pull/new/feature/TE-T84_Pro
ject_Setup_SubBranch
remote:
To git@github.com:AmanRajputDE/git-exercise-project.git
 * [new branch]      feature/TE-T84_Project_Setup_SubBranch -> feature/TE-T84_Project_Setup_S
ubBranch
Branch feature/TE-T84_Project_Setup_SubBranch set up to track remote branch feature/TE-T84_Pro
ject_Setup_SubBranch from origin.

```

Create a branch from the develop

- Switched to **develop** branch and pull from Github

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup_SubBranch)
$ git checkout develop
Switched to branch 'develop'
Your branch is up-to-date with 'origin/develop'.

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git pull origin develop
Enter passphrase for key '/c/Users/aman.rajput/.ssh/id_ed25519':
From github.com:AmanRajputDE/git-exercise-project
 * branch            develop    -> FETCH_HEAD
Already up-to-date.
```

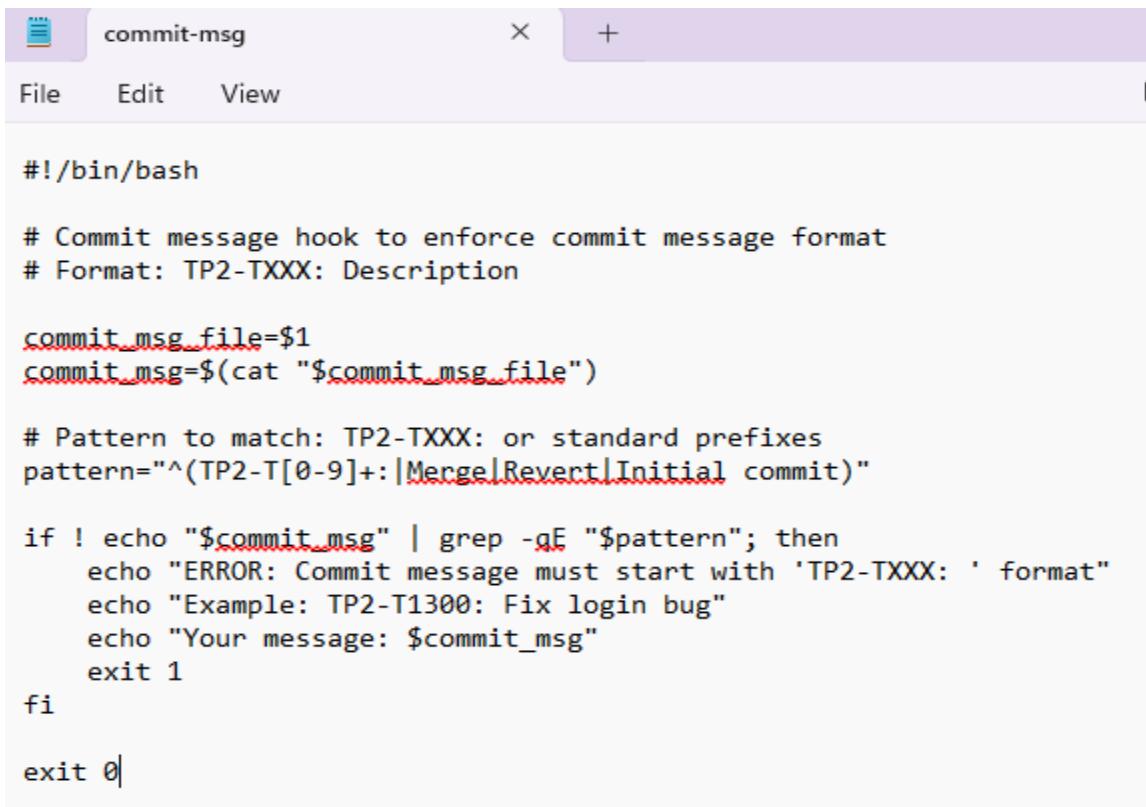
- Create a new branch for bugfixes

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git checkout -b feature/TE-T84_Bugfixes
Switched to a new branch 'feature/TE-T84_Bugfixes'

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ |
```

Add a commit message hook to the repo.

- Creating a git commit message hook



```
#!/bin/bash

# Commit message hook to enforce commit message format
# Format: TP2-TXXX: Description

commit_msg_file=$1
commit_msg=$(cat "$commit_msg_file")

# Pattern to match: TP2-TXXX: or standard prefixes
pattern="^([TP2-T][0-9]+:[|Merge|Revert|Initial ]+ )"

if ! echo "$commit_msg" | grep -qE "$pattern"; then
    echo "ERROR: Commit message must start with 'TP2-TXXX:' format"
    echo "Example: TP2-T1300: Fix login bug"
    echo "Your message: $commit_msg"
    exit 1
fi

exit 0
```

- Made the commit-msg file executable

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ chmod +x .git/hooks/commit-msg

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ ls -l .git/hooks/commit-msg
-rwxr-xr-x 1 aman.rajput 1049089 488 Jan 28 17:07 .git/hooks/commit-msg*
```

Perform multiple commits in the new branch

- Commit 1
- Checking the git commit-msg hook

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ git status
On branch feature/TE-T84_Bugfixes
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    bugfix1.txt

nothing added to commit but untracked files present (use "git add" to track)

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ git add bugfix1.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ git status
On branch feature/TE-T84_Bugfixes
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   bugfix1.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ git commit -m "asdsad"
ERROR: Commit message must start with 'TE-TXXX: ' format
Example: TE-T84: Fix login bug
Your message: asdsad
```

- When done right

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ git commit -m "TE-T84: Fix null pointer exception"
[feature/TE-T84_Bugfixes a421cf0] TE-T84: Fix null pointer exception
 1 file changed, 8 insertions(+)
 create mode 100644 bugfix1.txt
```

- Doing some more commits
- Commit 2

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ git add .

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ git commit -am "TE-T84: Fix date formatting issue in date parser"
[feature/TE-T84_Bugfixes a4ff59fe] TE-T84: Fix date formatting issue in date parser
 1 file changed, 8 insertions(+)
 create mode 100644 bugfix2.txt
```

- Commit 3

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ git add bugfix3.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ git commit -m "TE-T84: Fix memory leak in event listeners"
[feature/TE-T84_Bugfixes 1d2fc84] TE-T84: Fix memory leak in event listeners
 1 file changed, 8 insertions(+)
 create mode 100644 bugfix3.txt
```

Create PR to develop.

PR should be small in size, It's recommended to do one commit per PR. However, based on the situation we can have multiple commits in PR. e.g. if someone is doing 10 bug fixes which are one-liner fixes in such cases instead of 10 different PRs you can do 10 commits in a single PR.

- Create PR to Develop (I'm going to squash the commits)

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ git log --oneline
1d2fc84 TE-T84: Fix memory leak in event listeners
a4f59fe TE-T84: Fix date formatting issue in date parser
a421cf0 TE-T84: Fix null pointer exception
2fe46d3 Initial commit: Add README, gitignore, and LICENSE

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ git rebase -i HEAD~3
[detached HEAD 64a701e] TE-T84: Fix null pointer exception
Date: Wed Jan 28 17:16:43 2026 +0530
3 files changed, 24 insertions(+)
create mode 100644 bugfix1.txt
create mode 100644 bugfix2.txt
create mode 100644 bugfix3.txt
Successfully rebased and updated refs/heads/feature/TE-T84_Bugfixes.

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ git log --oneline
64a701e TE-T84: Fix null pointer exception
2fe46d3 Initial commit: Add README, gitignore, and LICENSE
```

- Pushing to GitHub and creating PR
- **Pushing**

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ git push -u origin feature/TE-T84_Bugfixes
Enter passphrase for key '/c/Users/aman.rajput/.ssh/id_ed25519':
Counting objects: 5, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 945 bytes | 0 bytes/s, done.
Total 5 (delta 0), reused 0 (delta 0)
remote:
remote: Create a pull request for 'feature/TE-T84_Bugfixes' on GitHub by visiting:
remote:     https://github.com/AmanRajputDE/git-exercise-project/pull/new/feature/TE-T84_Bug
fixes
remote:
To git@github.com:AmanRajputDE/git-exercise-project.git
 * [new branch]      feature/TE-T84_Bugfixes -> feature/TE-T84_Bugfixes
Branch feature/TE-T84_Bugfixes set up to track remote branch feature/TE-T84_Bugfixes from ori
gin.
```

- Create a PR (but haven't merged it)

Create another branch from develop given your previous PR is still in review state

- Creating Another Branch While First PR is in Review

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ git checkout develop
Switched to branch 'develop'
Your branch is up-to-date with 'origin/develop'.

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git checkout -b feature/TE-T84_New_Feature
Switched to a new branch 'feature/TE-T84_New_Feature'

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_New_Feature)
$ git status
On branch feature/TE-T84_New_Feature
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    analytics.txt

nothing added to commit but untracked files present (use "git add" to track)

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_New_Feature)
$ git add analytics.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_New_Feature)
$ git commit -m "TE-T84: Add analytics tracking module"
[feature/TE-T84_New_Feature 09fba90] TE-T84: Add analytics tracking module
 1 file changed, 17 insertions(+)
```

Now commit something in your current branch and push it

- Pushing the branch “**feature/TE-T84_New_Feature**” to GitHub

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_New_Feature)
$ git push -u origin feature/TE-T84_New_Feature
Enter passphrase for key '/c/Users/aman.rajput/.ssh/id_ed25519':
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 525 bytes | 0 bytes/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature/TE-T84_New_Feature' on GitHub by visiting:
remote:     https://github.com/AmanRajputDE/git-exercise-project/pull/new/feature/TE-T84_New_Feature
remote:
To git@github.com:AmanRajputDE/git-exercise-project.git
 * [new branch]      feature/TE-T84_New_Feature -> feature/TE-T84_New_Feature
Branch feature/TE-T84_New_Feature set up to track remote branch feature/TE-T84_New_Feature fr
om origin.
```

In the meantime, your previous PR has been merged to develop

- Merging the previous PR to Develop

The screenshot shows a GitHub pull request page for a repository named "AmanRajputDE / git-exercise-project". The pull request is titled "TE-T84: Fix multiple bugs in core modules #1". It has been merged by "AmanRajputDE" from the "feature/TE-T84_Bugfixes" branch into the "develop" branch. The pull request has 1 commit, 0 checks, and 3 files changed. The changes include fixing a null pointer exception in user validation, a date formatting issue in date parser, and a memory leak in event listeners. The testing section notes that all fixes have been tested locally. The pull request has been successfully merged and closed. A message indicates that the "feature/TE-T84_Bugfixes" branch can be safely deleted. There is also a section for adding a comment with a rich text editor.

- Deleting the branch “feature/TE-T84_Bugfixes”

TE-T84: Fix multiple bugs in core modules #1

Merged AmanRajputDE merged 1 commit into `develop` from `feature/TE-T84_Bugfixes` 2 minutes ago

Conversation 0 Commits 1 Checks 0 Files changed 3 +24 -0

AmanRajputDE commented 22 minutes ago

Changes:

- Fixed null pointer exception in user validation
- Fixed date formatting issue in date parser
- Fixed memory leak in event listeners

Testing:
All fixes have been tested locally

TE-T84: Fix null pointer exception ... 64a701e

AmanRajputDE merged commit 2eaf2f3 into develop 2 minutes ago Revert

AmanRajputDE deleted the feature/TE-T84_Bugfixes branch now Restore branch

Pull request successfully merged and closed
You're all set — the branch has been merged.

Add a comment

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

Notifications: Customize Unsubscribe
You're receiving notifications because you modified the open/close state.

Create a PR for the current branch given your branch should be up to date with develop branch

- Updating the local develop branch

```

MINGW64:/c/Users/aman.rajput/downloads/git-exercise-project
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_New_Feature)
$ git checkout develop
Switched to branch 'develop'
Your branch is up-to-date with 'origin/develop'.

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git pull origin develop
Enter passphrase for key '/c/Users/aman.rajput/.ssh/id_ed25519':
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 5 (delta 0), reused 4 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (5/5), done.
From github.com:AmanRajputDE/git-exercise-project
 * branch            develop      -> FETCH_HEAD
   2fe46d3..2eaf2f3  develop      -> origin/develop
Updating 2fe46d3..2eaf2f3
Fast-forward
 bugfix1.txt | 8 ++++++++
 bugfix2.txt | 8 ++++++++
 bugfix3.txt | 8 ++++++++
 3 files changed, 24 insertions(+)
 create mode 100644 bugfix1.txt
 create mode 100644 bugfix2.txt
 create mode 100644 bugfix3.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$
```

Git Graph View:

| Graph | Description | Date | Author | Commit |
|--|---|----------------|--------------|----------|
| develop | origin TE-T84: Fix null pointer e... | 28 Jan 2026... | AmanRajpu... | 2eaf2f3d |
| feature/TE-T84_New_Feature | origin TE-T84: Ad... | 28 Jan 2026... | Aman Rajput | 09fba900 |
| feature/TE-T84_Bugfixes | origin TE-T84: Fix null... | 28 Jan 2026... | Aman Rajput | 64a701e9 |
| feature/TE-T84_Project_Setup_SubBranch | origin A | 28 Jan 2026... | Aman Rajput | a6ffeda5 |
| feature/TE-T84_Project_Setup | Add database co... | 28 Jan 2026... | Aman Rajput | 9ec852db |
| origin/feature/TE-T84_Project_Setup | TE-T84: Ad... | 28 Jan 2026... | Aman Rajput | b362414c |
| main | origin Initial commit: Add README.gith... | 28 Jan 2026... | Aman Rajput | 2fe46d38 |

- Update Current Branch with Develop (DECISION: Use REBASE)
- Since our **feature/TP2-T1301_New_Feature** branch needs to be up to date with **develop** branch, I'll use **REBASE** to maintain a clean, linear history.

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git checkout feature/TE-T84_New_Feature
Switched to branch 'feature/TE-T84_New_Feature'
Your branch is up-to-date with 'origin/feature/TE-T84_New_Feature'.

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_New_Feature)
$ git rebase develop
First, rewinding head to replay your work on top of it...
Applying: TE-T84: Add analytics tracking module

```

| Graph | Description | Date | Author | Commit |
|---|---------------------------------------|----------------|-------------|-----------|
| feature/TE-T84_New_Feature | TE-T84: Add analytics tracking module | 28 Jan 2026... | Aman Rajput | ad109406 |
| develop origin | TE-T84: Fix null pointer exception | 28 Jan 2026... | Aman Rajput | 2eaf2f3d |
| origin/feature/TE-T84_New_Feature | TE-T84: Add... | 28 Jan 2026... | Aman Rajput | 09fba900 |
| feature/TE-T84_Bugfixes origin | TE-T84: Fix null... | 28 Jan 2026... | Aman Rajput | 64a701e9 |
| feature/TE-T84_Project_Setup_SubBranch origin | A | 28 Jan 2026... | Aman Rajput | a6ffeda5 |
| feature/TE-T84_Project_Setup | Add database co... | 28 Jan 2026... | Aman Rajput | 9ec852db |
| | Add error logging to logger module | 28 Jan 2026... | Aman Rajput | 8fbda4b0d |
| | Add warning logging to logger module | 28 Jan 2026... | Aman Rajput | 402e6adc |
| | Add logger module with info logging | 28 Jan 2026... | Aman Rajput | e29d16d3 |
| | Add formatDate utility function | 28 Jan 2026... | Aman Rajput | 181f1ae8f |
| origin/feature/TE-T84_Project_Setup | TE-T84: Ad... | 28 Jan 2026... | Aman Rajput | b362414c |
| main origin | Initial commit: Add README.gith... | 28 Jan 2026... | Aman Rajput | 2fe46d38 |

- Force push because we rebased and that lead to changing history

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_New_Feature)
$ git push --force-with-lease origin feature/TE-T84_New_Feature
Enter passphrase for key '/c/Users/aman.rajput/.ssh/id_ed25519':
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 531 bytes | 0 bytes/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To git@github.com:AmanRajputDE/git-exercise-project.git
  09fba90..ad10940  feature/TE-T84_New_Feature -> feature/TE-T84_New_Feature

```

- Creating PR

AmanRajputDE / git-exercise-project

Code Issues Pull requests 1 Actions Projects Wiki Security Insights Settings

TE-T84: Add analytics tracking module #2

Open AmanRajputDE wants to merge 1 commit into `develop` from `feature/TE-T84_New_Feature`

Conversation 0 Commits 1 Checks 0 Files changed 1 +17 -0

AmanRajputDE commented now

Changes:

- Added analytics tracking module with event tracking functionality

Testing:

Tested event tracking with sample data

TE-T84: Add analytics tracking module ad10940

No conflicts with base branch
Merging can be performed automatically.

Squash and merge ▾ You can also merge this with the command line.
[View command line instructions](#).

Still in progress? Convert to draft

Reviewers
No reviews
Still in progress? Convert to draft

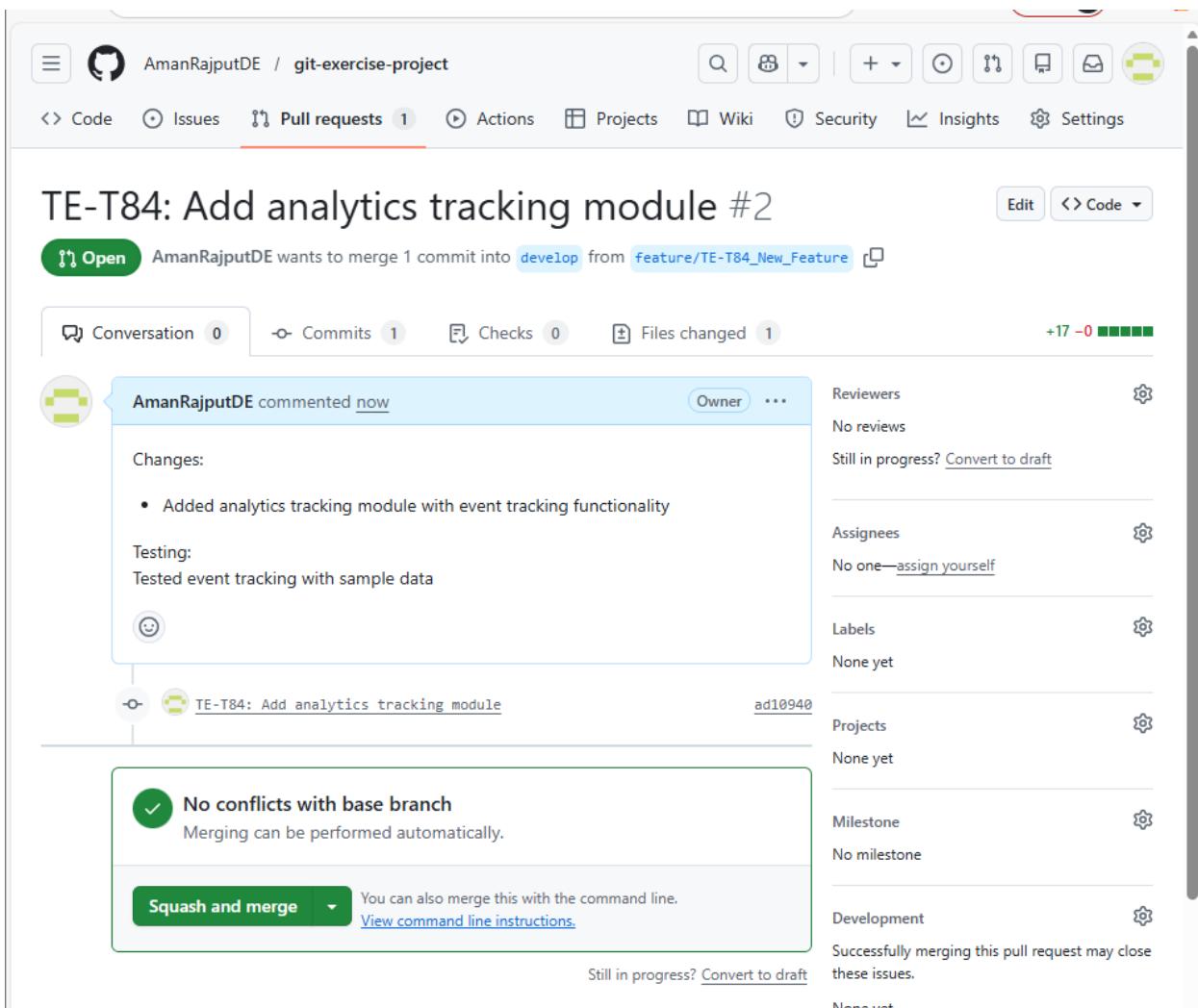
Assignees
No one—assign yourself

Labels
None yet

Projects
None yet

Milestone
No milestone

Development
Successfully merging this pull request may close these issues.
None yet



Squashed and merged it

For any new build release add a version tag to that specific commit to keep track of each version.

- Add Version Tag for Release
 - Update develop and create release

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_New_Feature)
$ git checkout develop
Switched to branch 'develop'
Your branch is up-to-date with 'origin/develop'.

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git pull origin develop
Enter passphrase for key '/c/Users/aman.rajput/.ssh/id_ed25519':
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 2 (delta 1), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), done.
From github.com:AmanRajputDE/git-exercise-project
 * branch           develop    -> FETCH_HEAD
   2eaf2f3..3979557  develop    -> origin/develop
Updating 2eaf2f3..3979557
Fast-forward
 analytics.txt | 17 ++++++
 1 file changed, 17 insertions(+)
 create mode 100644 analytics.txt

```

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ ...

```

| Graph | Description | Date | Author | Commit |
|-------|--|----------------|--------------|-----------|
| ○ | develop origin TE-T84: Add analytics tracki... | 28 Jan 2026... | AmanRajpu... | 39795577 |
| ● | feature/TE-T84_New_Feature origin TE-T84: Add a... | 28 Jan 2026... | Aman Rajput | ad109406 |
| ● | TE-T84: Fix null pointer exception (#1) | 28 Jan 2026... | AmanRajpu... | 2eaf2f3d |
| ● | feature/TE-T84_Bugfixes origin TE-T84: Fix null p... | 28 Jan 2026... | Aman Rajput | 64a701e9 |
| ● | feature/TE-T84_Project_Setup_SubBranch origin A... | 28 Jan 2026... | Aman Rajput | a6ffeda5 |
| ● | feature/TE-T84_Project_Setup Add database conn... | 28 Jan 2026... | Aman Rajput | 9ec852db |
| ● | Add error logging to logger module | 28 Jan 2026... | Aman Rajput | 8fbda4b0d |
| ● | Add warning logging to logger module | 28 Jan 2026... | Aman Rajput | 402e6adc |
| ● | Add logger module with info logging | 28 Jan 2026... | Aman Rajput | e29d16d3 |
| ● | Add formatDate utility function | 28 Jan 2026... | Aman Rajput | 181f4e8f |
| ● | origin/feature/TE-T84_Project_Setup TE-T84: Add i... | 28 Jan 2026... | Aman Rajput | b362414c |
| ● | main origin Initial commit: Add README, gitigno... | 28 Jan 2026... | Aman Rajput | 2fe46d38 |

```
MINGW64:c/Users/aman.rajput/downloads/git-exercise-project
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git status
On branch develop
Your branch is up-to-date with 'origin/develop'.
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    project-info.txt

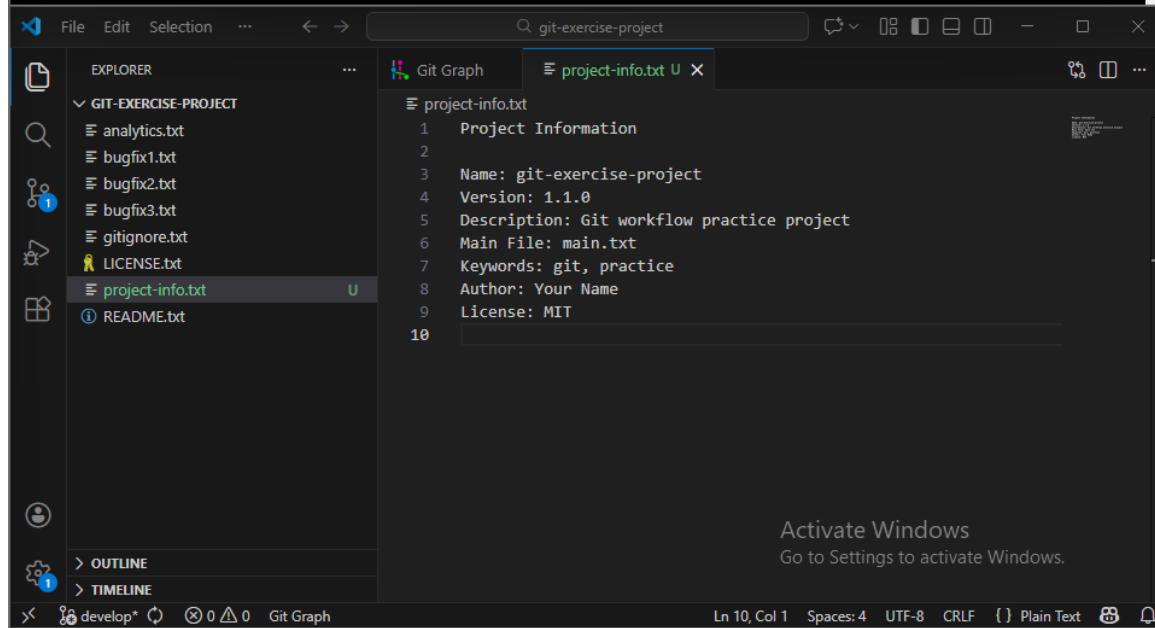
nothing added to commit but untracked files present (use "git add" to track)

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git add project-info.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git commit -m "Bump version to 1.1.0 for release"
ERROR: Commit message must start with 'TE-TXXX: ' format
Example: TE-T84: Fix login bug
Your message: Bump version to 1.1.0 for release

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git commit -m "TE-T84: Bump version to 1.1.0 for release"
[develop d4f6cfa] TE-T84: Bump version to 1.1.0 for release
 1 file changed, 9 insertions(+)
 create mode 100644 project-info.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ |
```



- Create and push version tag

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git tag -a v1.1.0 -m "Release version 1.1.0 - Added analytics and bugfixes"
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git push origin v1.1.0
Enter passphrase for key '/c/Users/aman.rajput/.ssh/id_ed25519':
Counting objects: 4, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 615 bytes | 0 bytes/s, done.
Total 4 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To git@github.com:AmanRajputDE/git-exercise-project.git
 * [new tag]      v1.1.0 -> v1.1.0

```

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$
```

The screenshot shows the Git Graph extension in VS Code. The Explorer sidebar lists files: analytics.txt, bugfix1.txt, bugfix2.txt, bugfix3.txt, gitignore.txt, LICENSE.txt, project-info.txt, and README.txt. The Git Graph tab shows a timeline of commits from January 2026. A tooltip for the 'origin/feature/TE-T84_Project_Setup' commit points to 'Activate Windows'.

| Graph | Description | Date | Author | Commit |
|-------|---|----------------|--------------|-----------|
| | v1.1.0 TE-T84: Bump version t... | 28 Jan 2026... | Aman Rajput | d4f6cfa5 |
| | TE-T84: Add analytics tracking mo... | 28 Jan 2026... | AmanRajpu... | 39795577 |
| | TE-T84: Add a... | 28 Jan 2026... | Aman Rajput | ad109406 |
| | TE-T84: Fix null pointer exception (#1) | 28 Jan 2026... | AmanRajpu... | 2eaf2f3d |
| | TE-T84: Fix null p... | 28 Jan 2026... | Aman Rajput | 64a701e9 |
| | TE-T84: Add database conn... | 28 Jan 2026... | Aman Rajput | a6ffeda5 |
| | Add error logging to logger module | 28 Jan 2026... | Aman Rajput | 8fbda4b0d |
| | Add warning logging to logger module | 28 Jan 2026... | Aman Rajput | 402e6adc |
| | Add logger module with info logging | 28 Jan 2026... | Aman Rajput | e29d16d3 |
| | Add formatDate utility function | 28 Jan 2026... | Aman Rajput | 181f4e8f |
| | TE-T84: Add i... | 28 Jan 2026... | Aman Rajput | b362414c |
| | Initial commit: Add README, gitign... | 28 Jan 2026... | Aman Rajput | 2fe46d38 |

Merge to main for production release

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git checkout main
Switched to branch 'main'
Your branch is up-to-date with 'origin/main'.
```

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (main)
$ git merge develop
Updating 2fe46d3..d4f6cfa
Fast-forward
 analytics.txt      | 17 ++++++=====
 bugfix1.txt        |  8 ++++++++
 bugfix2.txt        |  8 ++++++++
 bugfix3.txt        |  8 ++++++++
 project-info.txt   |  9 ++++++++
 5 files changed, 50 insertions(+)
 create mode 100644 analytics.txt
 create mode 100644 bugfix1.txt
 create mode 100644 bugfix2.txt
 create mode 100644 bugfix3.txt
 create mode 100644 project-info.txt
```

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (main)
$
```

The screenshot shows a Git Graph interface integrated into a code editor. The left sidebar lists project files: analytics.txt, bugfix1.txt, bugfix2.txt, bugfix3.txt, gitignore.txt, LICENSE.txt, project-info.txt, and README.txt. The main area displays a timeline of commits across various branches:

| Graph | Description | Date | Author | Commit |
|--|--|----------------|-------------|----------|
| main | v1.1.0 TE-T84: Bum... | 28 Jan 2026... | Aman Rajput | d4f6cfa5 |
| origin/develop | TE-T84: Add analytics tracking mo... | 28 Jan 2026... | Aman Rajput | 39795577 |
| feature/TE-T84_New_Feature | origin TE-T84: Add a... | 28 Jan 2026... | Aman Rajput | ad109406 |
| TE-T84 | Fix null pointer exception (#1) | 28 Jan 2026... | Aman Rajput | 2eaf2f3d |
| feature/TE-T84_Bugfixes | origin TE-T84: Fix null p... | 28 Jan 2026... | Aman Rajput | 64a701e9 |
| feature/TE-T84_Project_Setup_SubBranch | origin A... | 28 Jan 2026... | Aman Rajput | a6ffeda5 |
| feature/TE-T84_Project_Setup | Add database conn... | 28 Jan 2026... | Aman Rajput | 9ec852db |
| | Add error logging to logger module | 28 Jan 2026... | Aman Rajput | 8fbdb0d |
| | Add warning logging to logger module | 28 Jan 2026... | Aman Rajput | 402e6adc |
| | Add logger module with info logging | 28 Jan 2026... | Aman Rajput | e29d16d3 |
| | Add formatDate utility function | 28 Jan 2026... | Aman Rajput | 181f4e8f |
| origin/feature/TE-T84_Project_Setup | TE-T84: Add i... | 28 Jan 2026... | Aman Rajput | b362414c |
| origin/main | Initial commit: Add README, gitigno... | 28 Jan 2026... | Aman Rajput | 2fe46d38 |

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (main)
$ git push origin main
Enter passphrase for key '/c/Users/aman.rajput/.ssh/id_ed25519':
Total 0 (delta 0), reused 0 (delta 0)
remote: To git@github.com:AmanRajputDE/git-exercise-project.git
  2fe46d3..d4f6cfa main -> main

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (main)
$ git tag -a v1.1.0-production -m "Production release 1.1.0"

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (main)
$ git push origin v1.1.0-production
Enter passphrase for key '/c/Users/aman.rajput/.ssh/id_ed25519':
Counting objects: 1, done.
Writing objects: 100% (1/1), 186 bytes | 0 bytes/s, done.
Total 1 (delta 0), reused 0 (delta 0)
remote: To git@github.com:AmanRajputDE/git-exercise-project.git
 * [new tag]      v1.1.0-production -> v1.1.0-production

```

| Graph | Description | Date | Author | Commit |
|---|--|-------------|-------------|-----------|
| main | origin/develop develop v1.1.0 v1.1.0-production TE... TE-T84: Add analytics tracking module (#2) | 28 Jan 2... | Aman Rajput | d4f6cfa5 |
| origin/develop | TE-T84: Add analytics tracking module (#2) | 28 Jan 2... | Aman Rajput | 39795577 |
| feature/TE-T84_New_Feature | origin/develop origin TE-T84: Add analytics tracking ... | 28 Jan 2... | Aman Rajput | ad109406 |
| TE-T84: Fix null pointer exception (#1) | | 28 Jan 2... | Aman Rajput | 2eaf2f3d |
| feature/TE-T84_Bugfixes | origin/develop origin TE-T84: Fix null pointer exception | 28 Jan 2... | Aman Rajput | 64a701e9 |
| feature/TE-T84_Project_Setup_SubBranch | origin/develop origin Add database conn... | 28 Jan 2... | Aman Rajput | a6ffeda5 |
| feature/TE-T84_Project_Setup | origin/develop origin Add database connection module | 28 Jan 2... | Aman Rajput | 9ec852db |
| | Add error logging to logger module | 28 Jan 2... | Aman Rajput | 8fbda4b0d |
| | Add warning logging to logger module | 28 Jan 2... | Aman Rajput | 402e6adc |
| | Add logger module with info logging | 28 Jan 2... | Aman Rajput | e29d16d3 |
| | Add formatDate utility function | 28 Jan 2... | Aman Rajput | 181f4e8f |
| origin/feature/TE-T84_Project_Setup | TE-T84: Add initial project struc... | 28 Jan 2... | Aman Rajput | b362414c |
| | Initial commit: Add README, gitignore, and LICENSE | 28 Jan 2... | Aman Rajput | 2fe46d38 |

Create 2 another branch (3rd and 4th) from develop, push read me changes to 3rd brach.

- Create 3rd and 4th Branches
- Create 3rd branch from develop

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (main)
$ git checkout develop
Switched to branch 'develop'
Your branch is ahead of 'origin/develop' by 1 commit.
  (use "git push" to publish your local commits)

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git checkout -b feature/TE-T84_README_Updates
Switched to a new branch 'feature/TE-T84_README_Updates'

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_README_Updates)
$
```

| Graph | Description | Date | Author | Commit |
|-------|--|-------------|-------------|-----------|
| | feature/TE-T84_README_Updates develop main origin | 28 Jan 2... | Aman Rajput | d4f6cfa5 |
| | origin/develop TE-T84: Add analytics tracking module (#2) | 28 Jan 2... | Aman Rajput | 39795577 |
| | feature/TE-T84_New_Feature origin TE-T84: Add analytics tracking ... | 28 Jan 2... | Aman Rajput | ad109406 |
| | TE-T84: Fix null pointer exception (#1) | 28 Jan 2... | Aman Rajput | 2eaf2f3d |
| | feature/TE-T84_Bugfixes origin TE-T84: Fix null pointer exception | 28 Jan 2... | Aman Rajput | 64a701e9 |
| | feature/TE-T84_Project_Setup_SubBranch origin Add database conn... | 28 Jan 2... | Aman Rajput | a6ffeda5 |
| | feature/TE-T84_Project_Setup Add database connection module | 28 Jan 2... | Aman Rajput | 9ec852db |
| | Add error logging to logger module | 28 Jan 2... | Aman Rajput | 8fbda4b0d |
| | Add warning logging to logger module | 28 Jan 2... | Aman Rajput | 402e6adc |
| | Add logger module with info logging | 28 Jan 2... | Aman Rajput | e29d16d3 |
| | Add formatDate utility function | 28 Jan 2... | Aman Rajput | 181f4e8f |
| | origin/feature/TE-T84_Project_Setup TE-T84: Add initial project struc... | 28 Jan 2... | Aman Rajput | b362414c |
| | Initial commit: Add README, gitignore, and LICENSE | 28 Jan 2... | Aman Rajput | 2fe46d38 |

Activate Windows
Go to Settings to activate Windows.

- Push README changes to 3rd branch

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_README_Update
$)
$ git status
On branch feature/TE-T84_README_Updates
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   README.txt

no changes added to commit (use "git add" and/or "git commit -a")

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_README_Update
$)
$ git add README.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_README_Update
$)
$ git commit -m "TE-T84: Update README with features, setup instructions, and version history"
[feature/TE-T84_README_Updates 86c54de] TE-T84: Update README with features, setup instructions, and version history
 1 file changed, 23 insertions(+), 2 deletions(-)

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_README_Update
$)
$
```

The screenshot shows a Git Graph interface integrated into a code editor. The left sidebar lists project files: analytics.txt, bugfix1.txt, bugfix2.txt, bugfix3.txt, gitignore.txt, LICENSE.txt, project-info.txt, and README.txt (which is currently modified). The main area is a Git Graph view with the following details:

| Graph | Description | Date | Author | Commit |
|-------|--|-------------|--------------|-----------|
| | feature/TE-T84_README_Updates TE-T84: Update README w... | 28 Jan 2... | Aman Rajput | 86c54deb |
| | develop develop origin v1.0 v1.0-production TE-T8... | 28 Jan 2... | Aman Rajput | d4f6cfa5 |
| | origin/develop TE-T84: Add analytics tracking module (#2) | 28 Jan 2... | AmanRajpu... | 39795577 |
| | feature/TE-T84_New_Feature origin TE-T84: Add analytics tracking ... | 28 Jan 2... | Aman Rajput | ad109406 |
| | TE-T84: Fix null pointer exception (#1) | 28 Jan 2... | AmanRajpu... | 2eaf2f3d |
| | feature/TE-T84_Bugfixes origin TE-T84: Fix null pointer exception | 28 Jan 2... | Aman Rajput | 64a701e9 |
| | feature/TE-T84_Project_Setup_SubBranch origin Add database conn... | 28 Jan 2... | Aman Rajput | a6ffeda5 |
| | feature/TE-T84_Project_Setup Add database connection module | 28 Jan 2... | Aman Rajput | 9ec852db |
| | Add error logging to logger module | 28 Jan 2... | Aman Rajput | 8fbdb4b0d |
| | Add warning logging to logger module | 28 Jan 2... | Aman Rajput | 402e6adc |
| | Add logger module with info logging | 28 Jan 2... | Aman Rajput | e29d16d3 |
| | Add formatDate utility function | 28 Jan 2... | Aman Rajput | 181f4e8f |
| | origin/feature/TE-T84_Project_Setup TE-T84: Add initial project struc... | 28 Jan 2... | Aman Rajput | b362414c |
| | Initial commit: Add README, gitignore, and LICENSE | 28 Jan 2... | Aman Rajput | 2fe46d38 |

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_README_Updates)
$ git push -u origin feature/TE-T84_README_Updates
Enter passphrase for key '/c/Users/aman.rajput/.ssh/id_ed25519':
Counting objects: 3, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 751 bytes | 0 bytes/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature/TE-T84_README_Updates' on GitHub by visiting:
remote:     https://github.com/AmanRajputDE/git-exercise-project/pull/new/feature/TE-T84_README_Updates
remote:
remote: To git@github.com:AmanRajputDE/git-exercise-project.git
 * [new branch]      feature/TE-T84_README_Updates -> feature/TE-T84_README_Updates
Branch feature/TE-T84_README_Updates set up to track remote branch feature/TE-T84_README_Updates from origin.

```

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_README_Updates)
$ 

```

The screenshot shows the VS Code interface with the Git Graph extension open. The Explorer sidebar shows a project folder named 'GIT-EXERCISE-PROJECT' containing files like 'analytics.txt', 'bugfix1.txt', 'bugfix2.txt', 'bugfix3.txt', 'gitignore.txt', 'LICENSE.txt', 'project-info.txt', and 'README.txt'. The Git Graph view displays a commit history for the 'feature/TE-T84_README_Updates' branch. The commits are listed in a table with columns for Description, Date, Author, and Commit hash. The commits include various bug fixes, feature additions, and setup changes. The 'develop' branch is shown merging into the 'origin/main' branch.

| Graph | Description | Date | Author | Commit |
|-------|--|-------------|-------------|-----------|
| | feature/TE-T84_README_Updates origin TE-T84: Update REA... | 28 Jan 2... | Aman Rajput | 86c54deb |
| | develop main origin v1.1.0 v1.1.0-production TE-T8... | 28 Jan 2... | Aman Rajput | d4f6cf5 |
| | origin/develop TE-T84: Add analytics tracking module (#2) | 28 Jan 2... | Aman Rajput | 39795577 |
| | feature/TE-T84_New_Feature origin TE-T84: Add analytics tracking ... | 28 Jan 2... | Aman Rajput | ad109406 |
| | TE-T84: Fix null pointer exception (#1) | 28 Jan 2... | Aman Rajput | 2eaf2f3d |
| | feature/TE-T84_Bugfixes origin TE-T84: Fix null pointer exception | 28 Jan 2... | Aman Rajput | 64a701e9 |
| | feature/TE-T84_Project_Setup_SubBranch origin Add database conn... | 28 Jan 2... | Aman Rajput | a6ffeda5 |
| | feature/TE-T84_Project_Setup origin Add database connection module | 28 Jan 2... | Aman Rajput | 9ec852db |
| | Add error logging to logger module | 28 Jan 2... | Aman Rajput | 8fbda4b0d |
| | Add warning logging to logger module | 28 Jan 2... | Aman Rajput | 402e6adc |
| | Add logger module with info logging | 28 Jan 2... | Aman Rajput | e29d16d3 |
| | Add formatDate utility function | 28 Jan 2... | Aman Rajput | 181f4e8f |
| | origin/feature/TE-T84_Project_Setup TE-T84: Add initial project struc... | 28 Jan 2... | Aman Rajput | b362414c |
| | Initial commit: Add README, gitignore, and LICENSE | 28 Jan 2... | Aman Rajput | 2fe46d38 |

Create 4th branch from develop

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_README_Updates)
$ git checkout develop
Switched to branch 'develop'
Your branch is ahead of 'origin/develop' by 1 commit.
  (use "git push" to publish your local commits)

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git checkout -b feature/TE-T84_Documentation
Switched to a new branch 'feature/TE-T84_Documentation'

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$
```

| Graph | Description | Date | Author | Commit |
|-------|---|-------------|-------------|-----------|
| | feature/TE-T84_README_Updates origin TE-T84: Update README... | 28 Jan 2... | Aman Rajput | 86c54deb |
| | feature/TE-T84_Documentation develop main origin TE-T84: Add analytics tracking module (#2) | 28 Jan 2... | Aman Rajput | d4f6cfa5 |
| | origin/develop TE-T84: Add analytics tracking module (#2) | 28 Jan 2... | Aman Rajput | 39795577 |
| | feature/TE-T84_New_Feature origin TE-T84: Add analytics trackin... | 28 Jan 2... | Aman Rajput | ad109406 |
| | TE-T84: Fix null pointer exception (#1) | 28 Jan 2... | Aman Rajput | 2eaf2f3d |
| | feature/TE-T84_Bugfixes origin TE-T84: Fix null pointer exception | 28 Jan 2... | Aman Rajput | 64a701e9 |
| | feature/TE-T84_Project_Setup_SubBranch origin Add database co... | 28 Jan 2... | Aman Rajput | a6ffeda5 |
| | feature/TE-T84_Project_Setup Add database connection module | 28 Jan 2... | Aman Rajput | 9ec852db |
| | Add error logging to logger module | 28 Jan 2... | Aman Rajput | 8fbda4b0d |
| | Add warning logging to logger module | 28 Jan 2... | Aman Rajput | 402e6adc |
| | Add logger module with info logging | 28 Jan 2... | Aman Rajput | e29d16d3 |
| | Add formatDate utility function | 28 Jan 2... | Aman Rajput | 181f4e8f |
| | origin/feature/TE-T84_Project_Setup TE-T84: Add initial project str... | 28 Jan 2... | Aman Rajput | b362414c |

Cherry pick 3rd branch's commit to 4th branch.

- Get the commit hash from 3rd branch and cherry-pick to 4th branch

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git checkout -b feature/TE-T84_Documentation
Switched to a new branch 'feature/TE-T84_Documentation'

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$ git log feature/TE-T84_README_Updates --oneline -1
86c54de TE-T84: Update README with features, setup instructions, and version history

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$ git cherry-pick 86c54de
[feature/TE-T84_Documentation cc7c21a] TE-T84: Update README with features, setup instructions, and version history
Date: Wed Jan 28 19:13:18 2026 +0530
1 file changed, 23 insertions(+), 2 deletions(-)

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$ ...

```

| Graph | Description | Date | Author | Commit |
|-------|--|-------------|-------------|----------|
| | feature/TE-T84_Documentation TE-T84: Update README ... | 28 Jan 2... | Aman Rajput | cc7c21a8 |
| | feature/TE-T84_README_Updates origin TE-T84: Update README... | 28 Jan 2... | Aman Rajput | 86c54deb |
| | develop main origin v1.1.0 v1.1.0-production TE-... | 28 Jan 2... | Aman Rajput | d4f6cfa5 |
| | origin/develop TE-T84: Add analytics tracking module (#2) | 28 Jan 2... | Aman Rajput | 39795577 |
| | feature/TE-T84_New_Feature origin TE-T84: Add analytics trackin... | 28 Jan 2... | Aman Rajput | ad109406 |
| | TE-T84: Fix null pointer exception (#1) | 28 Jan 2... | Aman Rajput | 2eaf2f3d |
| | feature/TE-T84_Bugfixes origin TE-T84: Fix null pointer exception | 28 Jan 2... | Aman Rajput | 64a701e9 |
| | feature/TE-T84_Project_Setup_SubBranch origin Add database co... | 28 Jan 2... | Aman Rajput | a6ffeda5 |
| | feature/TE-T84_Project_Setup Add database connection module | 28 Jan 2... | Aman Rajput | 9ec852db |
| | Add error logging to logger module | 28 Jan 2... | Aman Rajput | 8fd4b0d |
| | Add warning logging to logger module | 28 Jan 2... | Aman Rajput | 402e6adc |
| | Add logger module with info logging | 28 Jan 2... | Aman Rajput | e29d16d3 |
| | Add formatDate utility function | 28 Jan 2... | Aman Rajput | 181f4e8f |
| | origin/feature/TE-T84_Project_Setup TE-T84: Add initial project str... | 28 Jan 2... | Aman Rajput | b362414c |

Change Commit Message in 4th Branch

Amend the cherry-picked commit message

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$ git commit --amend -m "TE-T84: Import and enhance README documentation from TE-T84"
[feature/TE-T84_Documentation 375d9a3] TE-T84: Import and enhance README documentation from T
E-T84
Date: Wed Jan 28 19:13:18 2026 +0530
1 file changed, 23 insertions(+), 2 deletions(-)
```

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$
```

| Graph | Description | Date | Author | Commit |
|--|----------------------------------|------|--------|--------|
| feature/TE-T84_Documentation TE-T84: Import and enhan... | 28 Jan 2... Aman Rajput 375d9a35 | | | |
| feature/TE-T84_README_Updates origin TE-T84: Update README... | 28 Jan 2... Aman Rajput 86c54deb | | | |
| develop main origin v1.1.0 v1.1.0-production TE-... | 28 Jan 2... Aman Rajput d4f6cfa5 | | | |
| origin/develop TE-T84: Add analytics tracking module (#2) | 28 Jan 2... Aman Rajput 39795577 | | | |
| feature/TE-T84_New_Feature origin TE-T84: Add analytics trackin... | 28 Jan 2... Aman Rajput ad109406 | | | |
| TE-T84: Fix null pointer exception (#1) | 28 Jan 2... Aman Rajput 2eaf2f3d | | | |
| feature/TE-T84_Bugfixes origin TE-T84: Fix null pointer exception | 28 Jan 2... Aman Rajput 64a701e9 | | | |
| feature/TE-T84_Project_Setup_SubBranch origin Add database co... | 28 Jan 2... Aman Rajput a6ffeda5 | | | |
| feature/TE-T84_Project_Setup origin Add database connection module | 28 Jan 2... Aman Rajput 9ec852db | | | |
| Add error logging to logger module | 28 Jan 2... Aman Rajput 8fb4b0d | | | |
| Add warning logging to logger module | 28 Jan 2... Aman Rajput 402e6adc | | | |
| Add logger module with info logging | 28 Jan 2... Aman Rajput e29d16d3 | | | |
| Add formatDate utility function | 28 Jan 2... Aman Rajput 181f4e8f | | | |

add 3 commit to 4th branch and delete last commit.

- Add 3 Commits to 4th Branch
- Commit 1

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$ git add API-docs.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$ git commit -m "TE-T84: Add API documentation for analytics module"
[feature/TE-T84_Documentation 77d6d58] TE-T84: Add API documentation for analytics module
 1 file changed, 23 insertions(+)
 create mode 100644 API-docs.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$
```

The screenshot shows a code editor interface with the following details:

- File Explorer:** Shows a project structure with files: analytics.txt, API-docs.txt, bugfix1.txt, bugfix2.txt, bugfix3.txt, gitignore.txt, LICENSE.txt, project-info.txt, and README.txt.
- Search Bar:** Contains the text "git-exercise-project".
- Git Graph:** A tab showing the commit history.
- API-docs.txt Tab:** Active tab, showing the contents of the API documentation file.
- README.txt Tab:** Another tab in the header.
- Content Area:** Displays the following text from the API-docs.txt file:

```
9 - eventName (string): Name of the event to track
10 - eventData (object): Additional data for the event
11
12 Returns:
13 Object containing event details and timestamp
14
15 Example:
16 trackEvent('user_login', { userId: 123 })
17
18 Output:
19 {
20   event: 'user_login',
21   timestamp: '2026-01-28T10:30:00.000Z',
22   data: { userId: 123 }
23 }
```
- Status Bar:** Shows "feature/TE-T84_Documentation" and other status indicators like line and column counts (Ln 16, Col 18), spaces (Spaces: 4), encoding (UTF-8), and line endings (CRLF).
- Bottom Right:** A message "Activate Windows" with a link "Go to Settings to activate Windows."

- Commit 2

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$ git add CONTRIBUTING.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$ git commit -m "TE-T84: Add contributing guidelines"
[feature/TE-T84_Documentation 05ed66d] TE-T84: Add contributing guidelines
 1 file changed, 21 insertions(+)
 create mode 100644 CONTRIBUTING.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$
```

The screenshot shows the Visual Studio Code interface with the following details:

- Explorer View:** Shows the project structure under "GIT-EXERCISE-PROJECT". The "CONTRIBUTING.txt" file is selected.
- Search Bar:** Displays the search term "git-exercise-project".
- Editor View:** Shows the content of the "CONTRIBUTING.txt" file. The content includes:

 - Section 2. Make your changes
 - Section 3. Follow commit message format: TP2-TXXX: Description
 - Section 4. Create a Pull Request to develop
 - Section 5. Wait for code review
 - Section Code Standards:
 - Use meaningful file names
 - Add clear descriptions in documentation
 - Write clean, readable content
 - Section Testing:
 - Test all changes locally before pushing
 - Ensure no breaking changes
 - Verify all files are properly formatted

- Status Bar:** Shows "Ln 14, Col 42" and other file status indicators.

- Commit 3

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$ git add CHANGELOG.txt
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$ git commit -m "TE-T84: Add changelog for version tracking"
[feature/TE-T84_Documentation 3aa051f] TE-T84: Add changelog for version tracking
 1 file changed, 21 insertions(+)
 create mode 100644 CHANGELOG.txt

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$ |

```

The screenshot shows a terminal window at the top with a command-line interface. Below it is a code editor window with a dark theme. The terminal window displays a series of Git commands and their outputs, including adding a file to the repository, committing changes, and creating a new file. The code editor window shows the file 'CHANGELOG.txt' with its content. The content of 'CHANGELOG.txt' is as follows:

```

7 - Utility functions for date, string, and email operations
8 - Logger module with info, error, and warning levels
9 - Database connection module
10
11 Fixed:
12 - Null pointer exception in user validation
13 - Date formatting issue in date parser
14 - Memory leak in event listeners
15
16 Version 1.0.0 - 2026-01-28
17
18 Added:
19 - Initial project setup
20 - Basic configuration files
21 - Project structure
22

```

- Verify all commits

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$ git log --oneline -4
3aa051f TE-T84: Add changelog for version tracking
05ed66d TE-T84: Add contributing guidelines
77d6d58 TE-T84: Add API documentation for analytics module
375d9a3 TE-T84: Import and enhance README documentation from TE-T84

```

- Delete Last Commit (DECISION: Use RESET)

```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$ git log --oneline -4
3aa051f TE-T84: Add changelog for version tracking
05ed66d TE-T84: Add contributing guidelines
77d6d58 TE-T84: Add API documentation for analytics module
375d9a3 TE-T84: Import and enhance README documentation from TE-T84

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$ git reset --hard HEAD~1
HEAD is now at 05ed66d TE-T84: Add contributing guidelines

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$ git log --oneline -3
05ed66d TE-T84: Add contributing guidelines
77d6d58 TE-T84: Add API documentation for analytics module
375d9a3 TE-T84: Import and enhance README documentation from TE-T84
```

```
CONTRIBUTING.txt
6 2. Make your changes
7 3. Follow commit message format: TP2-TXXX: Description
8 4. Create a Pull Request to develop
9 5. Wait for code review
10
11 Code Standards:
12
13 - Use meaningful file names
14 - Add clear descriptions in documentation
15 - Write clean, readable content
16
17 Testing:
18
19 - Test all changes locally before pushing
20 - Ensure no breaking changes
21 - Verify all files are properly formatted
```

- Push the 4th branch

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$ git push -u origin feature/TE-T84_Documentation
Enter passphrase for key '/c/Users/aman.rajput/.ssh/id_ed25519':
Counting objects: 9, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (9/9), done.
Writing objects: 100% (9/9), 1.79 KiB | 0 bytes/s, done.
Total 9 (delta 3), reused 0 (delta 0)
remote: Resolving deltas: 100% (3/3), completed with 1 local object.
remote:
remote: Create a pull request for 'feature/TE-T84_Documentation' on GitHub by visiting:
remote:     https://github.com/AmanRajputDE/git-exercise-project/pull/new/feature/TE-T84_Doc
umentation
remote:
To git@github.com:AmanRajputDE/git-exercise-project.git
 * [new branch]      feature/TE-T84_Documentation -> feature/TE-T84_Documentation
Branch feature/TE-T84_Documentation set up to track remote branch feature/TE-T84_Documentatio
n from origin.

```

```

aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Documentation)
$ ...

```

Git Graph

| Commit Message | Author | Date | Commit ID |
|---|--------------|-------------|-----------|
| TE-T84: Add contributing guidelines | Aman Rajput | 28 Jan 2... | 05ed66da |
| TE-T84: Add API documentation for analytics module | Aman Rajput | 28 Jan 2... | 77d6d588 |
| TE-T84: Import and enhance README documentation from TE-T84 | Aman Rajput | 28 Jan 2... | 375d9a35 |
| TE-T84: Update README with features, setup instructio... | Aman Rajput | 28 Jan 2... | 86c54deb |
| TE-T84: Bump version to 1.1.0 for r... | Aman Rajput | 28 Jan 2... | d4f6cfa5 |
| TE-T84: Add analytics tracking module (#2) | AmanRajpu... | 28 Jan 2... | 39795577 |
| TE-T84: Add analytics tracking module | Aman Rajput | 28 Jan 2... | ad109406 |
| TE-T84: Fix null pointer exception (#1) | AmanRajpu... | 28 Jan 2... | 2ea2f3d |
| TE-T84: Fix null pointer exception | Aman Rajput | 28 Jan 2... | 64a701e9 |
| Add database connection module | Aman Rajput | 28 Jan 2... | a6ffeda5 |
| Add error logging to logger module | Aman Rajput | 28 Jan 2... | 9ec852db |
| Add warning logging to logger module | Aman Rajput | 28 Jan 2... | 8fb4b0d |
| Add logger module with info logging | Aman Rajput | 28 Jan 2... | 402e6adc |
| Add formatDate utility function | Aman Rajput | 28 Jan 2... | e29d16d3 |
| TE-T84: Add initial project structure and configuration files | Aman Rajput | 28 Jan 2... | b362414c |
| Initial commit: Add README, gitignore, and LICENSE | Aman Rajput | 28 Jan 2... | 2fe46d38 |