

Name: Aman Rajeev Rajput

- [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_Setup
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

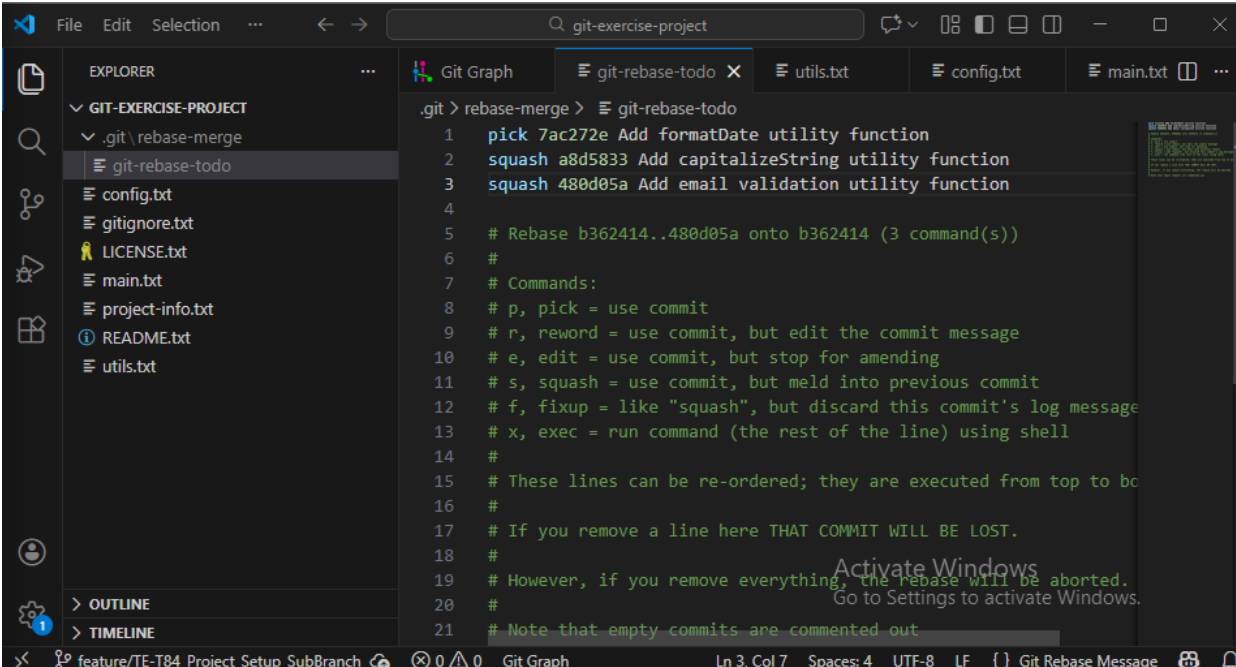
```

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

```



- 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

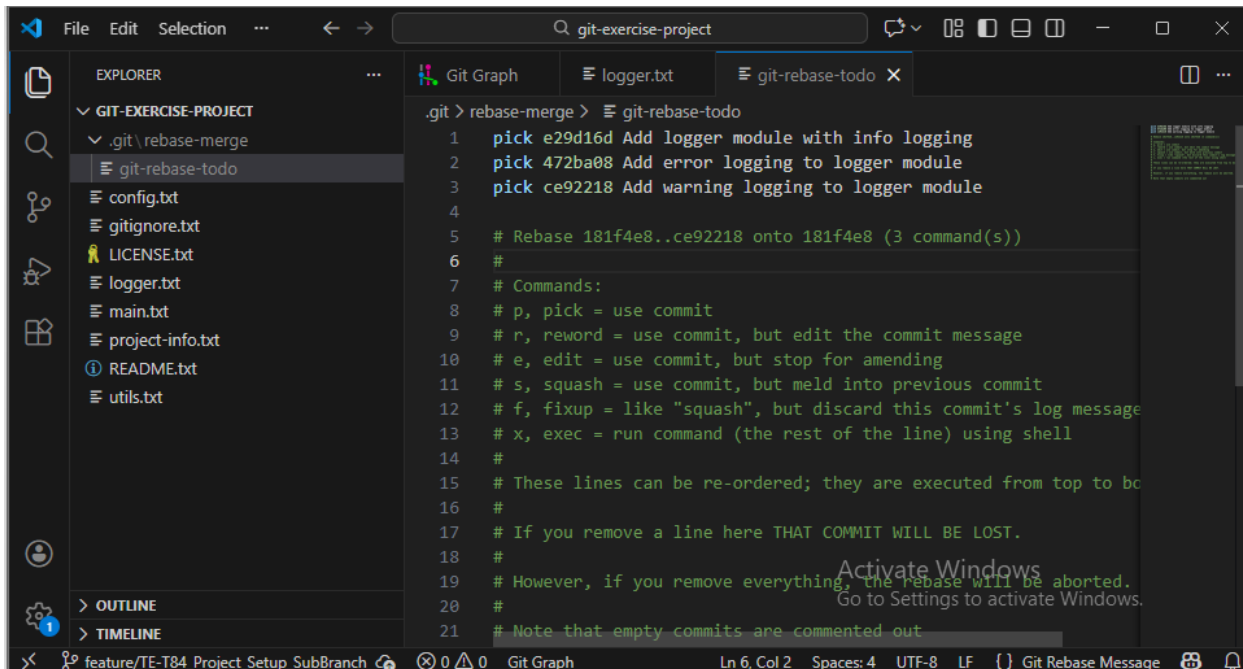
```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup_SubBranch)
$ git add logger.txt

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

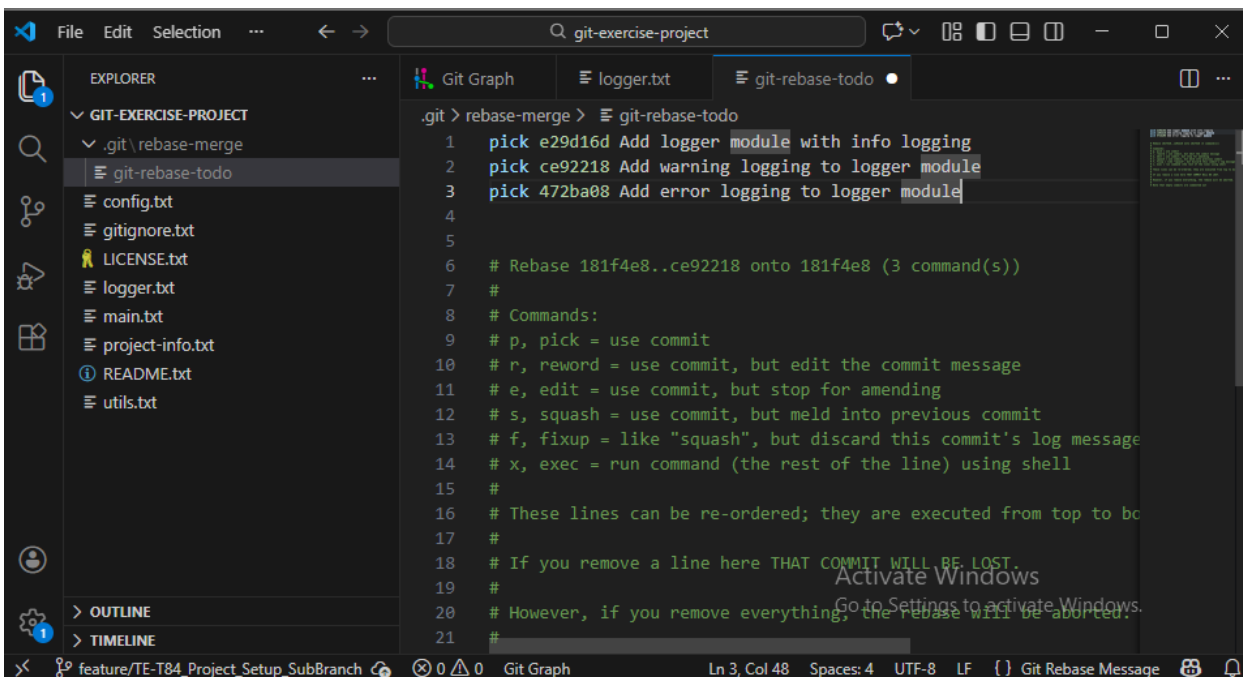
```
aman.rajput@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Project_Setup_SubBranch)
$ git rebase -i HEAD~3
```


- 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 #
21 # Note that empty commits are commented out
```

- To this



```
.git > rebase-merge > git-rebase-todo
1  pick ce92218 Add warning logging to logger module
2  pick 472ba08 Add error logging to logger module
3  pick e29d16d Add logger module with info logging
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 #
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_Project_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_SubBranch
Branch feature/TE-T84_Project_Setup_SubBranch set up to track remote branch feature/TE-T84_Project_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.
```

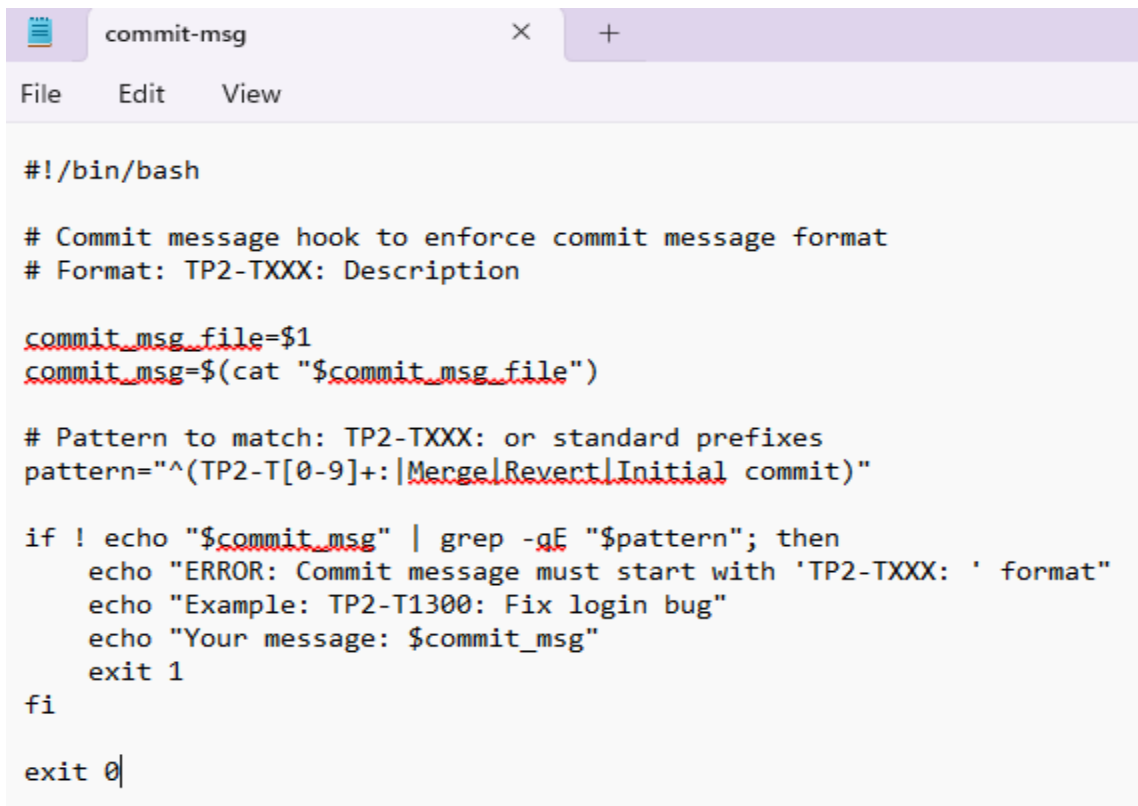
- Create a new branch for bugfixes

```
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

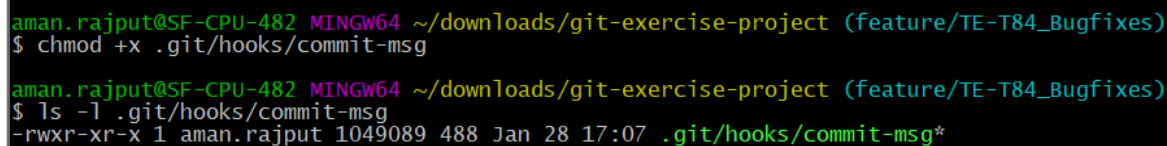
commit_msg_file=$1
commit_msg=$(cat "$commit_msg_file")

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

if ! echo "$commit_msg" | grep -qF "$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.rajpoot@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ chmod +x .git/hooks/commit-msg

aman.rajpoot@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (feature/TE-T84_Bugfixes)
$ ls -l .git/hooks/commit-msg
-rwxr-xr-x 1 aman.rajpoot 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-T84: ' 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 a4f59fe] 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_Bugfixes
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 origin.
```

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

Edit <> Code ▾

 Open AmanRajputDE wants to merge 1 commit into develop from feature/TE-T84_Bugfixes 

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

<

✓ **No conflicts with base branch**
Merging can be performed automatically.

Merge pull request ▼ You can also merge this with the command line.
[View command line instructions.](#)

Still in progress? [Convert to draft](#)

Add a comment

WritePreviewHBB*I*≡<>🔗
⋮⋮☰📎⋯

Add your comment here...

NotificationsCustomize

Unsubscribe

You're receiving notifications because you authored the thread.

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:
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 from 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 interface for the repository 'AmanRajputDE / git-exercise-project'. The pull request title is 'TE-T84: Fix multiple bugs in core modules #1'. It is marked as 'Merged' and shows 'AmanRajputDE merged 1 commit into develop from feature/TE-T84_Bugfixes'.

Navigation tabs include Code, Issues, Pull requests (1), Actions, Projects, Wiki, Security, Insights, and Settings. The pull request details show 0 conversations, 1 commit, 0 checks, and 3 files changed, with a net change of +24 lines and -0 deletions.

A comment from AmanRajputDE, posted 20 minutes ago, details the changes and testing:

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

The commit history shows a commit titled 'TE-T84: Fix null pointer exception' with hash 64a701e. Below it, a message states 'AmanRajputDE merged commit 2eaf2f3 into develop now', with a 'Revert' button.

A notification box states: 'Pull request successfully merged and closed. You're all set — the feature/TE-T84_Bugfixes branch can be safely deleted.' with a 'Delete branch' button.

On the right sidebar, sections for Reviewers, Assignees, Labels, Projects, Milestone, Development, and Notifications are visible. The 'Development' section notes: 'Successfully merging this pull request may close these issues.' and 'None yet'.

At the bottom, there is an 'Add a comment' section with a text input field and a 'Write' button.

- Deleting the branch “feature/TE-T84_Bugfixes”

The screenshot shows a GitHub pull request interface. At the top, the repository is 'git-exercise-project' by user 'AmanRajputDE'. The pull request title is 'TE-T84: Fix multiple bugs in core modules #1'. It is marked as 'Merged' and shows 'AmanRajputDE merged 1 commit into develop from feature/TE-T84_Bugfixes' 2 minutes ago. The interface includes tabs for Code, Issues, Pull requests (1), Actions, Projects, Wiki, Security, Insights, and Settings. Below the title, there are statistics: 0 Conversations, 1 Commit, 0 Checks, and 3 Files changed, with a net change of +24 -0. A comment from 'AmanRajputDE' (Owner) from 22 minutes ago details the changes: 'Fixed null pointer exception in user validation', 'Fixed date formatting issue in date parser', and 'Fixed memory leak in event listeners'. It also states 'All fixes have been tested locally'. The commit history shows a merge of commit '2eaf2f3' into 'develop' 2 minutes ago, with a 'Revert' button. Below that, it notes the deletion of the 'feature/TE-T84_Bugfixes' branch with a 'Restore branch' button. A message at the bottom states 'Pull request successfully merged and closed. You're all set — the branch has been merged.' On the right sidebar, there are sections for 'Reviewers' (No reviews), 'Assignees' (No one—assign yourself), 'Labels' (None yet), 'Projects' (None yet), 'Milestone' (No milestone), 'Development' (Successfully merging this pull request may close these issues), and 'Notifications' (Unsubscribe button).

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

- Updating the local develop branch

The image shows a terminal window and the VS Code interface. The terminal window displays the following commands and output:

```

aman.rajpoot@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.rajpoot@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git pull origin develop
Enter passphrase for key '/c/Users/aman.rajpoot/.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.rajpoot@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$

```

The VS Code interface shows the Explorer view on the left with the file tree for the 'git-exercise-project' directory. The Git Graph view is open on the right, showing a graph of the repository's history. The graph shows a main branch (blue) and a feature branch (orange). The feature branch has several commits, including 'TE-T84: Fix null pointer e...' and 'TE-T84: Ad...'. The main branch has a commit 'Initial commit: Add README.giti...'. The Git Graph view also includes a table of commits:

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
	Add error logging to logger module	28 Jan 2026...	Aman Rajput	8fbd4b0d
	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: Ad...	28 Jan 2026...	Aman Rajput	b362414c
main origin	Initial commit: Add README.giti...	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.

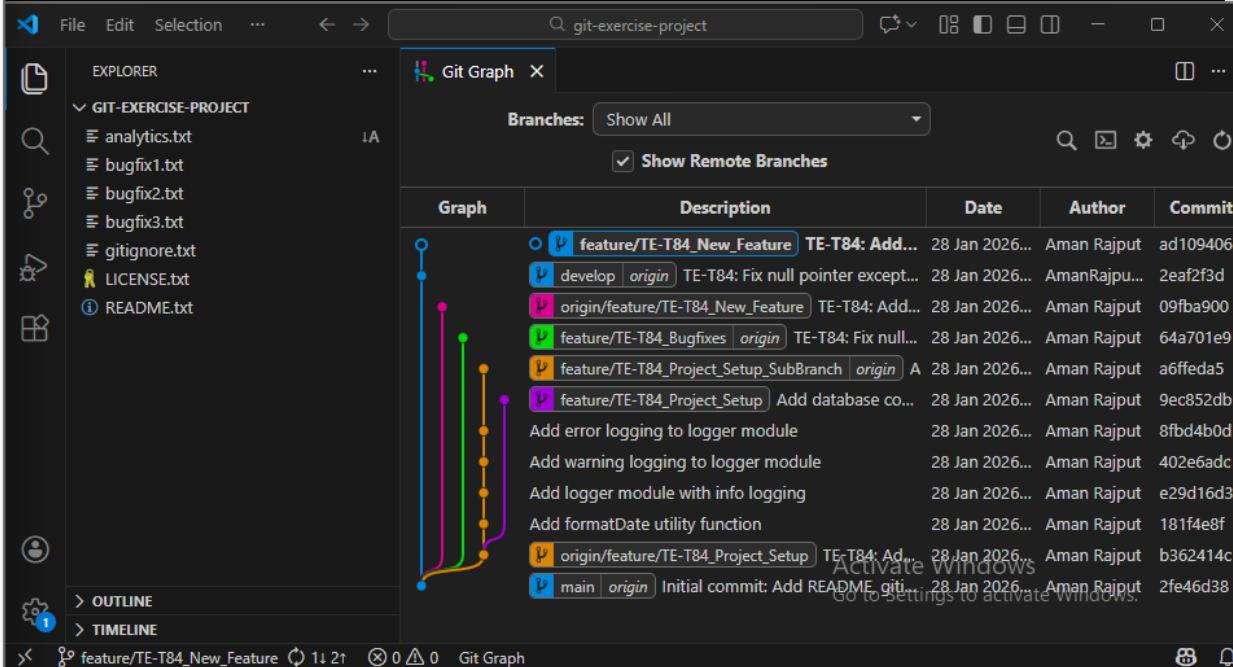
```

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

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

```



- 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

Edit<> Code

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

Owner

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

The screenshot shows a GitHub pull request interface. At the top, the repository is 'AmanRajputDE / git-exercise-project'. The pull request title is 'TE-T84: Add analytics tracking module #2'. It is marked as 'Merged' and shows 'AmanRajputDE merged 1 commit into develop from feature/TE-T84_New_Feature'. Below the title, there are statistics: 0 Conversations, 1 Commit, 0 Checks, and 1 File changed, with a net change of +17 lines. A comment from AmanRajputDE is visible, detailing changes and testing. The commit history shows the merge of commit 3979557 into develop. A message states 'Pull request successfully merged and closed' and suggests deleting the branch. At the bottom, there is a section to 'Add a comment' with a text area and a 'Write' button. On the right side, there are sections for 'Reviewers', 'Assignees', 'Labels', 'Projects', 'Milestone', 'Development', and 'Notifications'.

AmanRajputDE / git-exercise-project

TE-T84: Add analytics tracking module #2

Merged AmanRajputDE merged 1 commit into develop from feature/TE-T84_New_Feature now

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

AmanRajputDE commented now

Owner

Changes:

- Added analytics tracking module with event tracking functionality

Testing:

Tested event tracking with sample data

TE-T84: Add analytics tracking module ad10940

AmanRajputDE merged commit 3979557 into develop now

Revert

Pull request successfully merged and closed

You're all set — the feature/TE-T84_New_Feature branch can be safely deleted.

Delete branch

Add a comment

Write Preview H B I

Add your comment here...

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.

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.rajp@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.rajp@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$ git pull origin develop
Enter passphrase for key '/c/Users/aman.rajp/.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.rajp@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (develop)
$

```

git-exercise-project

EXPLORER

- ✓ GIT-EXERCISE-PROJECT
 - analytics.txt
 - bugfix1.txt
 - bugfix2.txt
 - bugfix3.txt
 - gitignore.txt
 - LICENSE.txt
 - README.txt
- OUTLINE
- TIMELINE

Git Graph

Branches: Show All

☒ Show Remote Branches

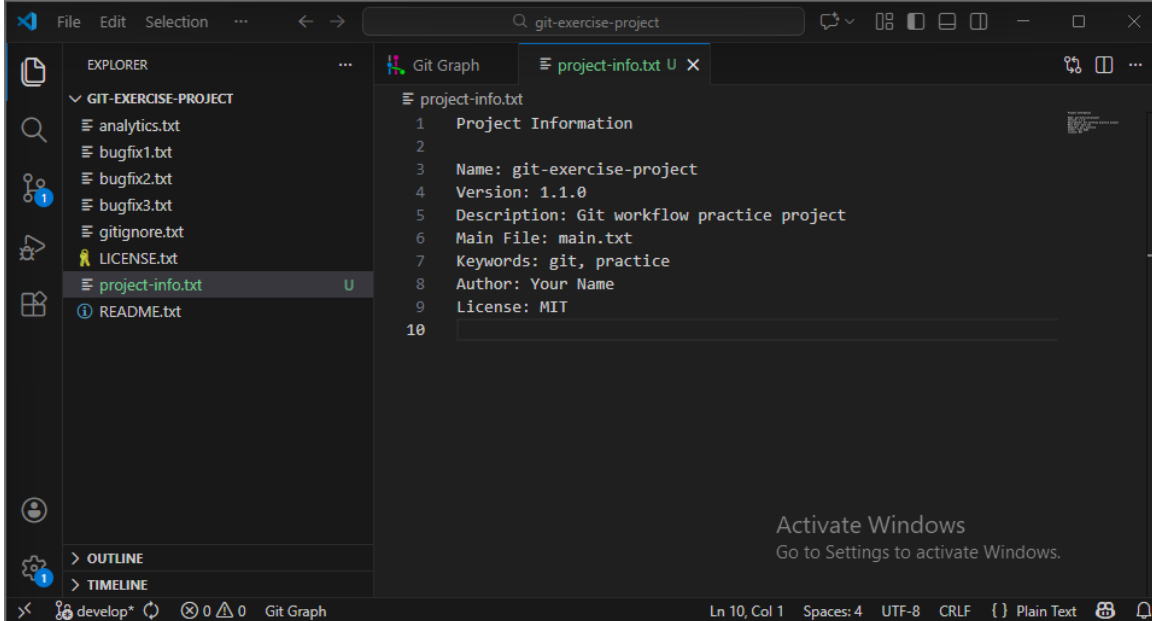
Graph	Description	Date	Author	Commit
develop origin	TE-T84: Add analytics tracki...	28 Jan 2026...	AmanRajpu...	39795577
feature/TE-T84_New_Feature origin	TE-T84: Add a...	28 Jan 2026...	Aman Rajput	ad109406
	TE-T84: Fix null pointer exception (#1)	28 Jan 2026...	AmanRajpu...	2eaf2f3d
feature/TE-T84_Bugfixes 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	8fbd4b0d
	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 gitign...	28 Jan 2026...	Aman Rajput	2fe46d38

develop 0 0 0 Git Graph

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

```

Git Graph view showing commit history:

Graph	Description	Date	Author	Commit
develop	TE-T84: Bump version t...	28 Jan 2026...	Aman Rajput	d4f6cfa5
origin/develop	TE-T84: Add analytics tracking mo...	28 Jan 2026...	Aman Rajpu...	39795577
feature/TE-T84_New_Feature	TE-T84: Add a...	28 Jan 2026...	Aman Rajput	ad109406
TE-T84: Fix null pointer exception (#1)		28 Jan 2026...	Aman Rajpu...	2eaf2f3d
feature/TE-T84_Bugfixes	TE-T84: Fix null p...	28 Jan 2026...	Aman Rajput	64a701e9
feature/TE-T84_Project_Setup_SubBranch		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	8fbd4b0d
	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	Initial commit: Add README, gitign...	28 Jan 2026...	Aman Rajput	2fe46d38

Merge to main for production release

aman.rajp@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.rajp@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
```

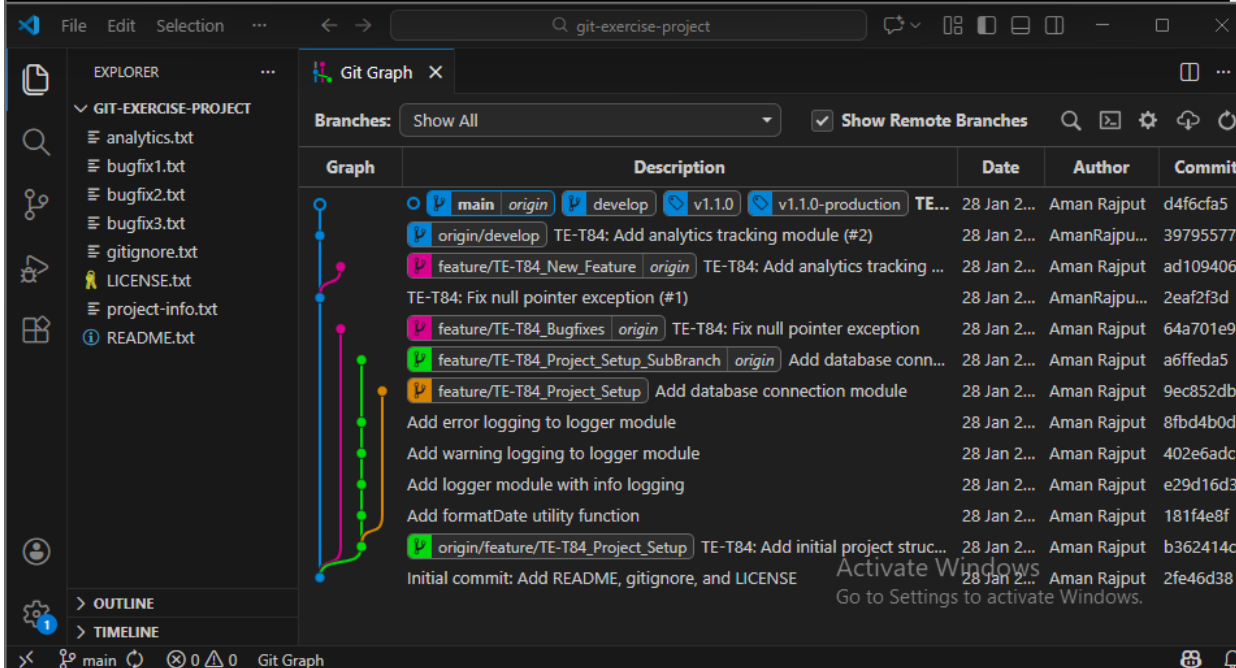
aman.rajp@SF-CPU-482 MINGW64 ~/downloads/git-exercise-project (main)

Graph	Description	Date	Author	Commit
	main develop v1.1.0 TE-T84: Bum...	28 Jan 2026...	Aman Rajput	d4f6cfa5
	origin/develop TE-T84: Add analytics tracking mo...	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	8fbd4b0d
	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	Initial commit: Add README, gitignore, and LICENSE	28 Jan 2...	Aman Rajput	2fe46d38
origin/main	Initial commit: Add README, gitignore, and LICENSE	28 Jan 2...	Aman Rajput	2fe46d38
develop	TE-T84: Add initial project struc...	28 Jan 2...	Aman Rajput	b362414c
origin/develop	TE-T84: Add initial project struc...	28 Jan 2...	Aman Rajput	b362414c
v1.1.0	TE-T84: Add database connection module	28 Jan 2...	Aman Rajput	9ec852db
v1.1.0-production	TE-T84: Add database connection module	28 Jan 2...	Aman Rajput	9ec852db
feature/TE-T84_Project_Setup	Add database connection module	28 Jan 2...	Aman Rajput	a6ffeda5
feature/TE-T84_Project_Setup_SubBranch	Add database connection module	28 Jan 2...	Aman Rajput	a6ffeda5
feature/TE-T84_Bugfixes	TE-T84: Fix null pointer exception	28 Jan 2...	Aman Rajput	64a701e9
feature/TE-T84_New_Feature	TE-T84: Add analytics tracking module (#1)	28 Jan 2...	Aman Rajput	2eaf2f3d
origin/feature/TE-T84_New_Feature	TE-T84: Add analytics tracking module (#1)	28 Jan 2...	Aman Rajput	2eaf2f3d
origin/feature/TE-T84_Bugfixes	TE-T84: Fix null pointer exception (#2)	28 Jan 2...	Aman Rajput	39795577
origin/feature/TE-T84_Bugfixes	TE-T84: Fix null pointer exception (#2)	28 Jan 2...	Aman Rajput	39795577
origin/feature/TE-T84_Bugfixes	TE-T84: Add analytics tracking module (#2)	28 Jan 2...	Aman Rajput	d4f6cfa5

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

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

```

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

```

Visual Studio Code interface showing the Git Graph view. The Explorer on the left lists files: analytics.txt, bugfix1.txt, bugfix2.txt, bugfix3.txt, gitignore.txt, LICENSE.txt, project-info.txt, and README.txt. The Git Graph view on the right displays a commit history with columns: Graph, Description, Date, Author, and Commit. The current branch is feature/TE-T84_README_Updates. The commit history includes:

Graph	Description	Date	Author	Commit
feature/TE-T84_README_Updates		28 Jan 2...	Aman Rajput	d4f6cfa5
origin/develop	TE-T84: Add analytics tracking module (#2)	28 Jan 2...	Aman Rajpu...	39795577
feature/TE-T84_New_Feature	TE-T84: Add analytics tracking ...	28 Jan 2...	Aman Rajput	ad109406
TE-T84: Fix null pointer exception (#1)		28 Jan 2...	Aman Rajpu...	2eaf2f3d
feature/TE-T84_Bugfixes	TE-T84: Fix null pointer exception	28 Jan 2...	Aman Rajput	64a701e9
feature/TE-T84_Project_Setup_SubBranch	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	8fbd4b0d
	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

- Push README changes to 3rd branch

```

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

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

```

Branches	Graph	Description	Date	Author	Commit
feature/TE-T84_README_Updates		TE-T84: Update README w...	28 Jan 2...	Aman Rajput	86c54deb
develop		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...	AmanRajpu...	39795577
feature/TE-T84_New_Feature		TE-T84: Add analytics tracking ...	28 Jan 2...	Aman Rajput	ad109406
TE-T84: Fix null pointer exception (#1)		TE-T84: Fix null pointer exception (#1)	28 Jan 2...	AmanRajpu...	2eaf2f3d
feature/TE-T84_Bugfixes		TE-T84: Fix null pointer exception	28 Jan 2...	Aman Rajput	64a701e9
feature/TE-T84_Project_Setup_SubBranch		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	8fbd4b0d
		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_Update
s)
$ 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_REA
DME_Updates
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_Upda
tes from origin.

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

```

The screenshot shows the Visual Studio Code interface with the Git Graph view active. The Explorer on the left shows the project files, including README.txt. The Git Graph view on the right displays a commit history table with columns for Graph, Description, Date, Author, and Commit. The table lists various commits including updates to README, analytics tracking, and database connection modules.

Graph	Description	Date	Author	Commit
feature/TE-T84_README_Updates	TE-T84: Update REA...	28 Jan 2...	Aman Rajput	86c54deb
develop	TE-T84: Add analytics tracking module (#2)	28 Jan 2...	Aman Rajput	d4f6cfa5
main	TE-T84: Add analytics tracking module (#2)	28 Jan 2...	Aman Rajput	39795577
origin/develop	TE-T84: Add analytics tracking module (#2)	28 Jan 2...	Aman Rajput	39795577
feature/TE-T84_New_Feature	TE-T84: Add analytics tracking module (#2)	28 Jan 2...	Aman Rajput	ad109406
feature/TE-T84_Bugfixes	TE-T84: Fix null pointer exception (#1)	28 Jan 2...	Aman Rajput	2eaf2f3d
feature/TE-T84_Bugfixes	TE-T84: Fix null pointer exception	28 Jan 2...	Aman Rajput	64a701e9
feature/TE-T84_Project_Setup_SubBranch	Add database connection module	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	8fbd4b0d
	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 structure	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_Update
s)
$ 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
)
$

```

Search git-exercise-project — Git Graph - git-exercise-project - Visual Studio Code

Branches: Show All

☒ Show Remote Branches

Graph	Description	Date	Author	Commit
feature/TE-T84_README_Updates	TE-T84: Update READM...	28 Jan 2...	Aman Rajput	86c54deb
feature/TE-T84_Documentation	TE-T84: Add analytics tracking module (#2)	28 Jan 2...	Aman Rajput	d4f6cfa5
origin/develop	TE-T84: Add analytics trackin...	28 Jan 2...	Aman Rajpu...	39795577
feature/TE-T84_New_Feature	TE-T84: Fix null pointer exception (#1)	28 Jan 2...	Aman Rajpu...	ad109406
feature/TE-T84_Bugfixes	TE-T84: Fix null pointer exception	28 Jan 2...	Aman Rajput	2eaf2f3d
feature/TE-T84_Project_Setup_SubBranch	Add database co...	28 Jan 2...	Aman Rajput	64a701e9
feature/TE-T84_Project_Setup	Add database connection module	28 Jan 2...	Aman Rajput	a6ffeda5
	Add error logging to logger module	28 Jan 2...	Aman Rajput	9ec852db
	Add warning logging to logger module	28 Jan 2...	Aman Rajput	8fbd4b0d
	Add logger module with info logging	28 Jan 2...	Aman Rajput	402e6adc
	Add formatDate utility function	28 Jan 2...	Aman Rajput	e29d16d3
origin/feature/TE-T84_Project_Setup	TE-T84: Add initial project str...	28 Jan 2...	Aman Rajput	181f4e8f
		28 Jan 2...	Aman Rajput	b362414c

Activate Windows
Go to Settings to activate Windows.

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 Rajpu...	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 Rajpu...	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	8fbd4b0d
	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
	Initial commit: Add README, gitignore, and LICENSE	28 Jan 2...	Aman Rajput	36a45d38

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)
$

```

The screenshot shows the Visual Studio Code interface with the Git Graph extension. On the left, the Explorer sidebar shows the project files: analytics.txt, bugfix1.txt, bugfix2.txt, bugfix3.txt, gitignore.txt, LICENSE.txt, project-info.txt, and README.txt. The main area displays the Git Graph view with a table of commits.

Graph	Description	Date	Author	Commit
feature/TE-T84_Documentation	TE-T84: Import and enhance...	28 Jan 2...	Aman Rajput	375d9a35
feature/TE-T84_README_Updates	TE-T84: Update READM...	28 Jan 2...	Aman Rajput	86c54deb
develop		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	TE-T84: Add analytics trackin...	28 Jan 2...	Aman Rajput	ad109406
TE-T84: Fix null pointer exception (#1)		28 Jan 2...	AmanRajpu...	2eaf2f3d
feature/TE-T84_Bugfixes	TE-T84: Fix null pointer exception	28 Jan 2...	Aman Rajput	64a701e9
feature/TE-T84_Project_Setup_SubBranch	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	8fbd4b0d
	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)
$
```

```
File Edit Selection ...  git-exercise-project  API-docs.txt x  README.txt
EXPLORER
GIT-EXERCISE-PROJECT
  analytics.txt
  API-docs.txt
  bugfix1.txt
  bugfix2.txt
  bugfix3.txt
  gitignore.txt
  LICENSE.txt
  project-info.txt
  README.txt
  OUTLINE
  TIMELINE

API-docs.txt
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  }
24

Activate Windows
Go to Settings to activate Windows.

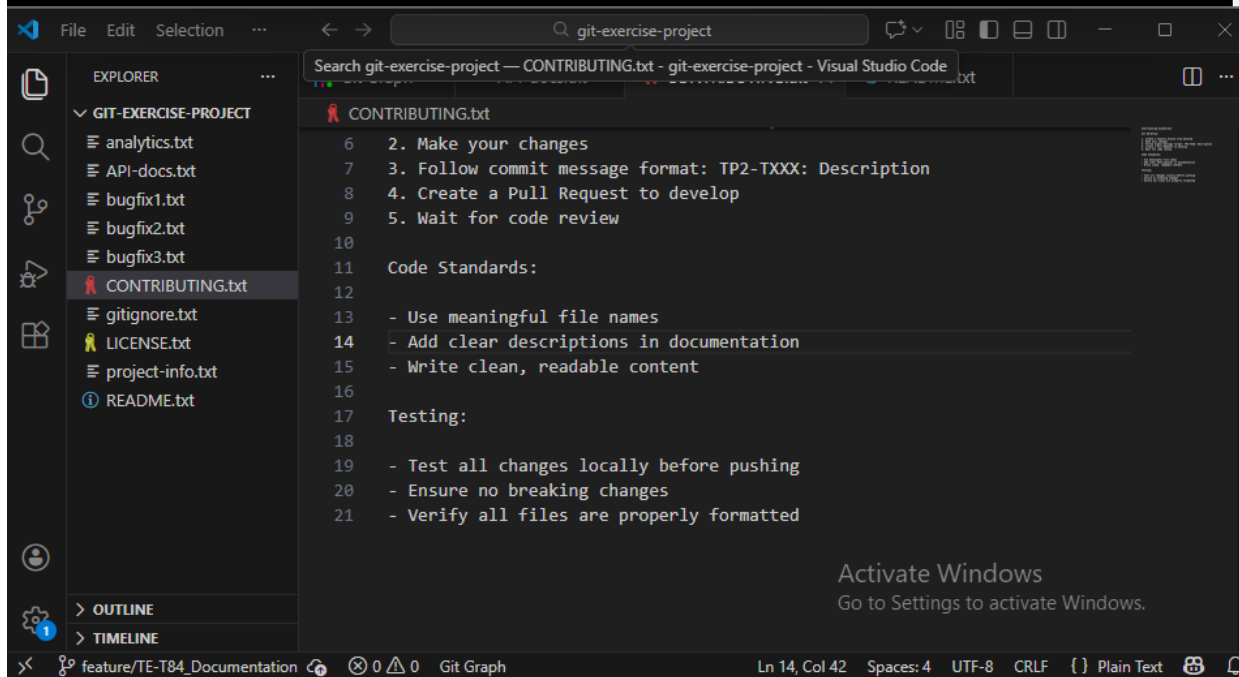
feature/TE-T84_Documentation 0 0 Git Graph Ln 16, Col 18 Spaces: 4 UTF-8 CRLF {} Plain Text
```

- 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)
$
```



- Commit 3

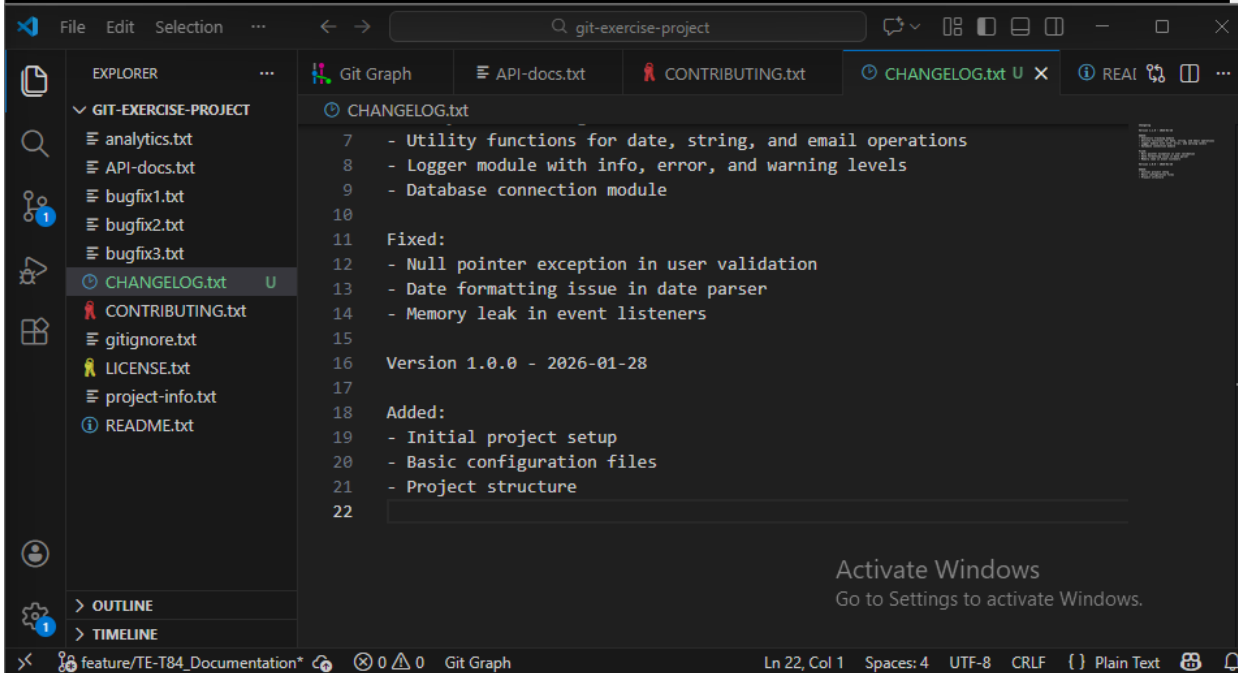
```

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)
$ |

```



- 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)

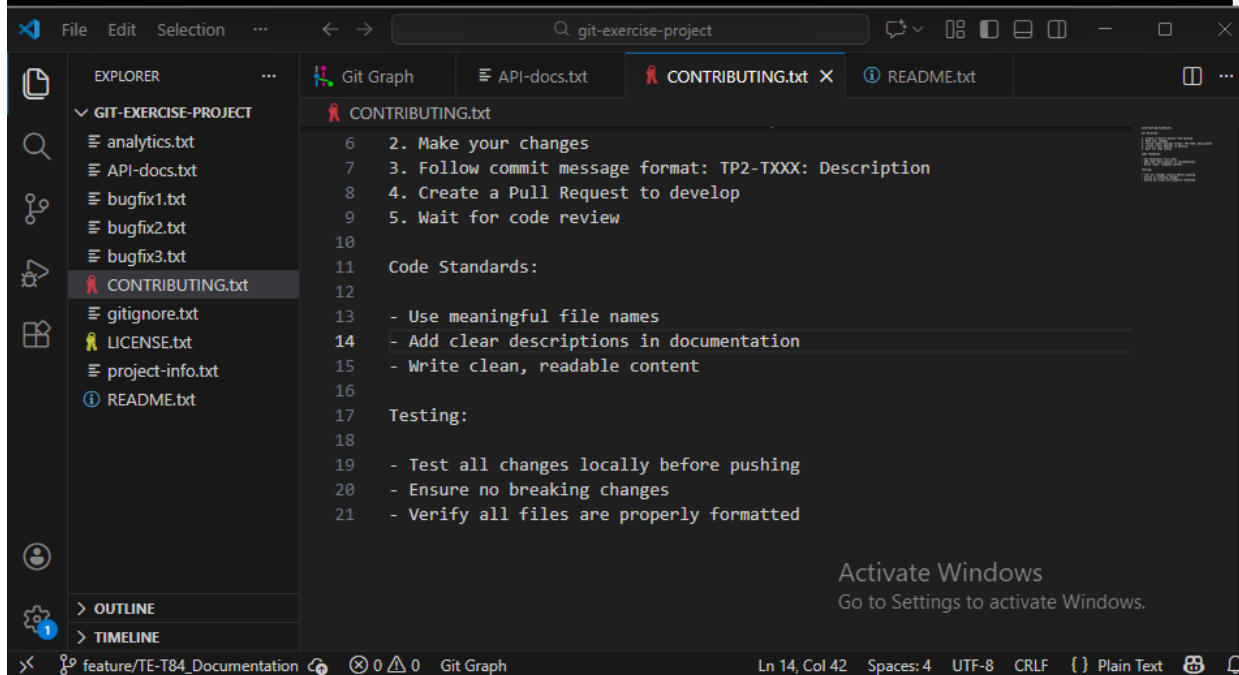
```

aman.rajpoot@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.rajpoot@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.rajpoot@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

```



- 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_Documentation
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_Documentation from origin.

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

```

The screenshot shows the Git GUI interface for the 'git-exercise-project' repository. The interface includes a sidebar with icons for file explorer, search, and other Git features. The main area displays a list of commits with their messages, dates, authors, and hashes. The 'feature/TE-T84_Documentation' branch is highlighted in blue.

Commit Hash	Message	Date	Author
05ed66da	TE-T84: Add contributing guidelines	28 Jan 2...	Aman Rajput
77d6d588	TE-T84: Add API documentation for analytics module	28 Jan 2...	Aman Rajput
375d9a35	TE-T84: Import and enhance README documentation from TE-T84	28 Jan 2...	Aman Rajput
86c54deb	TE-T84: Update README with features, setup instruction...	28 Jan 2...	Aman Rajput
d4f6cfa5	TE-T84: Bump version to 1.1.0 for r...	28 Jan 2...	Aman Rajput
39795577	TE-T84: Add analytics tracking module (#2)	28 Jan 2...	Aman Rajput
ad109406	TE-T84: Add analytics tracking module	28 Jan 2...	Aman Rajput
2eaf2f3d	TE-T84: Fix null pointer exception (#1)	28 Jan 2...	Aman Rajput
64a701e9	TE-T84: Fix null pointer exception	28 Jan 2...	Aman Rajput
a6ffeda5	Add database connection module	28 Jan 2...	Aman Rajput
9ec852db	Add database connection module	28 Jan 2...	Aman Rajput
8fbd4b0d	Add error logging to logger module	28 Jan 2...	Aman Rajput
402e6adc	Add warning logging to logger module	28 Jan 2...	Aman Rajput
e29d16d3	Add logger module with info logging	28 Jan 2...	Aman Rajput
181f4e8f	Add formatDate utility function	28 Jan 2...	Aman Rajput
b362414c	TE-T84: Add initial project structure and configuration files	28 Jan 2...	Aman Rajput
2fe46d38	Initial commit: Add README, gitignore, and LICENSE	28 Jan 2...	Aman Rajput