



Fatima Jinnah Women University

Opening Portals of Excellence Through Higher Education

CLOUD COMPUTING LAB 2

Hands-On Git & Version Control Lab

Submitted to: Engr. Waqas Saleem

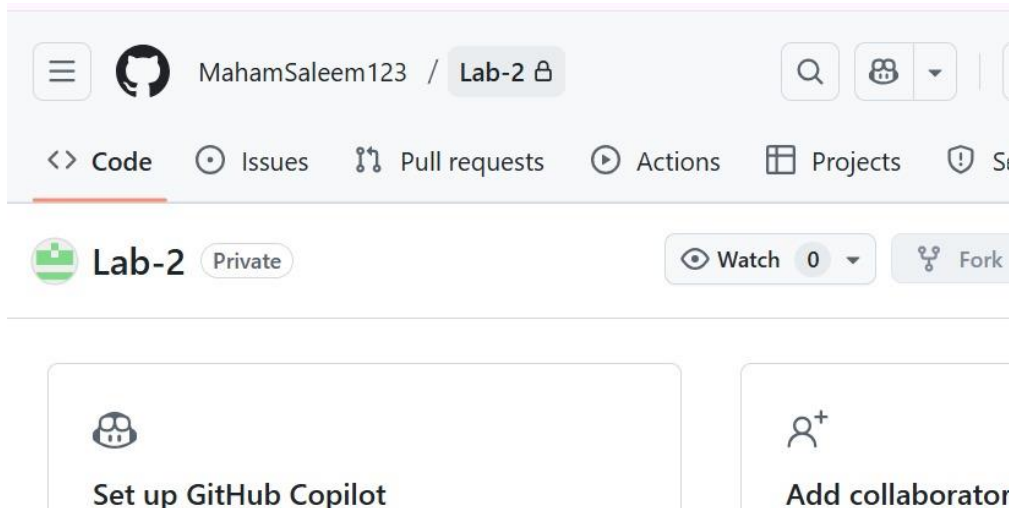
Engr. Muhammad Shahzad

Submitted by: Maham Saleem

Registration no.: 2023-BSE-035

Task 1: Create Private GitHub Repository

repo_private.png



Task 2: Connect Repository via SSH

ssh_keygen.png

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\User> git --version
git version 2.51.0.windows.2
PS C:\Users\User> ssh-keygen -t ed25519 -C "23-22411-035@se.fjwu.edu.pk"
Generating public/private ed25519 key pair.
Enter file in which to save the key (C:\Users\User\.ssh/id_ed25519):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\User\.ssh/id_ed25519
Your public key has been saved in C:\Users\User\.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:D75GqApkcurGno1901dKm3f2Yzf/nbJL2i3a1y8/g5A 23-22411-035@se.fjwu.edu.pk
The key's randomart image is:
+--[ED25519 256]--+
|
|.o.   .S.  .
|+o   ...+ E
|+   ...o * ...
|.+= .o ..* .=*oB=
|o=.+. .o .o+=0*/
+----[SHA256]-----+
PS C:\Users\User> |
```


Github_sshkey.png

SSH keys

[New SSH key](#)

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

Authentication keys



Lab2
SHA256:vwHP//33tU0tbG+nqyoHD1cn4byA3nYjt+gKTZaBvaE
Added on Oct 3, 2025
Never used — Read/write

Delete

Check out our guide to [connecting to GitHub using SSH keys](#) or troubleshoot [common SSH problems](#).

Ssh_clone.png

```
Windows PowerShell
PS C:\Users\USer> mkdir $env:USERPROFILE\Desktop\Lab2

Directory: C:\Users\USer\Desktop

Mode                LastWriteTime         Length Name
----                -
d-----          10/3/2025   8:57 PM             Lab2

PS C:\Users\USer> cd $env:USERPROFILE\Desktop\Lab2
PS C:\Users\USer\Desktop\Lab2> git clone git@github.com:MahamSaleem123/Lab-2.git
Cloning into 'Lab-2'...
The authenticity of host 'github.com (20.207.73.82)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvvV6TuJJhbpZisF/zLDA0zPMSvHdkr4UvC0qU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 9 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (9/9), 180.39 KiB | 473.00 KiB/s, done.
Resolving deltas: 100% (1/1), done.
PS C:\Users\USer\Desktop\Lab2> ssh -T git@github.com
Hi MahamSaleem123! You've successfully authenticated, but GitHub does not provide shell access.
```

Task 3: Configure Git Username and Email

Git_identity.png

```
PS C:\Users\USer\Desktop> git config --global user.name "Maham Saleem"
PS C:\Users\USer\Desktop> git config --global user.email "23-22411-035@se.fjwu.edu.pk"
PS C:\Users\USer\Desktop> |
```

Git_config_list.png

```
PS C:\Users\USer\Desktop> git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=schannel
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.name=Maham Saleem
user.email=23-22411-035@se.fjwu.edu.pk
PS C:\Users\USer\Desktop> |
```

Task 4: Explore the .git Folder

Git_folder.png

```
Windows PowerShell
PS C:\Users\USer\Desktop> cd $env:USERPROFILE\Desktop\Lab-2
PS C:\Users\USer\Desktop\Lab-2> ls -Force

Directory: C:\Users\USer\Desktop\Lab-2

Mode                LastWriteTime         Length Name
----                -
d--h--             10/3/2025   10:21 PM              .git
-a----             10/3/2025   10:21 PM         48132 github_sshkey.png
-a----             10/3/2025   10:21 PM         45544 git_config_list.png
-a----             10/3/2025   10:21 PM         21351 git_identicu.png
-a----             10/3/2025   10:21 PM         42971 repo_private.png
-a----             10/3/2025   10:21 PM         91649 ssh_clone.png
-a----             10/3/2025   10:21 PM        109145 ssh_keygen.png.png
```

```
PS C:\Users\User\Desktop\Lab-2> ls -Force .git

Directory: C:\Users\User\Desktop\Lab-2\.git

Mode                LastWriteTime         Length Name
----                -
d-----         10/3/2025  10:21 PM             hooks
d-----         10/3/2025  10:21 PM             info
d-----         10/3/2025  10:21 PM             logs
d-----         10/3/2025  10:21 PM          objects
d-----         10/3/2025  10:21 PM             refs
-a-----         10/3/2025  10:21 PM          298 config
-a-----         10/3/2025  10:21 PM          73 description
-a-----         10/3/2025  10:21 PM          21 HEAD
-a-----         10/3/2025  10:21 PM          561 index
-a-----         10/3/2025  10:21 PM          112 packed-refs
```

Task 5: Local Repository Management

delete_git.png

```
MINGW64:/c/Users/User/Desktop/Lab-2

User@LAPTOP-UGUQFEBV MINGW64 ~
$ cd ~/Desktop/Lab-2

User@LAPTOP-UGUQFEBV MINGW64 ~/Desktop/Lab-2 (main)
$ rm -rf .git

User@LAPTOP-UGUQFEBV MINGW64 ~/Desktop/Lab-2
$
```

Git_init.png

```
User@LAPTOP-UGUQFEBV MINGW64 ~/Desktop/Lab-2
$ git init
Initialized empty Git repository in C:/Users/User/Desktop/Lab-2/.git/

User@LAPTOP-UGUQFEBV MINGW64 ~/Desktop/Lab-2 (master)
$ |
```

First_commit.png

```
User@LAPTOP-UGUQFEBV MINGW64 ~/Desktop/Lab-2 (master)
$ echo "# Lab2 Git Practice" > README.md

User@LAPTOP-UGUQFEBV MINGW64 ~/Desktop/Lab-2 (master)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it

User@LAPTOP-UGUQFEBV MINGW64 ~/Desktop/Lab-2 (master)
$ git commit -m "Initial commit"
[master (root-commit) 716d6b8] Initial commit
 1 file changed, 1 insertion(+)
 create mode 100644 README.md
```

first_push.png

```
User@LAPTOP-UGUQFEBV MINGW64 ~/Desktop/Lab-2 (main)
$ git remote add origin git@github.com:MahamSaleem123/Lab-2.git
error: remote origin already exists.

User@LAPTOP-UGUQFEBV MINGW64 ~/Desktop/Lab-2 (main)
$ git push -u origin main
branch 'main' set up to track 'origin/main'.
Everything up-to-date

User@LAPTOP-UGUQFEBV MINGW64 ~/Desktop/Lab-2 (main)
$ |
```

Task 6: File Status & Staging

Status1.png

```
User@LAPTOP-UGUQFEBV MINGW64 ~ (master)
$ mkdir MyRepo

User@LAPTOP-UGUQFEBV MINGW64 ~ (master)
$ cd MyRepo

User@LAPTOP-UGUQFEBV MINGW64 ~/MyRepo (master)
$ git init
Initialized empty Git repository in C:/Users/User/MyRepo/.git/

User@LAPTOP-UGUQFEBV MINGW64 ~/MyRepo (master)
$ echo "This is my first note." > notes.txt

User@LAPTOP-UGUQFEBV MINGW64 ~/MyRepo (master)
$ git status
On branch master

No commits yet

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

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

Commit_notes.png

```
User@LAPTOP-UGUQFEBV MINGW64 ~/MyRepo (master)
$ git add notes.txt
warning: in the working copy of 'notes.txt', LF will be replaced by CRLF the next time Git touches it

User@LAPTOP-UGUQFEBV MINGW64 ~/MyRepo (master)
$ git commit -m "Add notes.txt"
[master (root-commit) fb47e2b] Add notes.txt
1 file changed, 1 insertion(+)
create mode 100644 notes.txt

User@LAPTOP-UGUQFEBV MINGW64 ~/MyRepo (master)
$ |
```

Task 7: Branch Creation Using GitHub GUI

bugfix_branch_gui.png

Branches

[New branch](#)

Overview Yours Active Stale All

Default

Branch	Updated	Check status	Behind	Ahead	Pull request
main	12 minutes ago				

Your branches

Branch	Updated	Check status	Behind
bugfix/user-auth-error	1 minute ago		0

Active branches

Branch	Updated	Check status	Behind
bugfix/user-auth-error	1 minute ago		0

Bugfix_branch_local.png

```
User@LAPTOP-UGUQFEBV MINGW64 ~/MyRepo (master)
$ git remote add origin https://github.com/MahamSaleem123/Lab-2.git

User@LAPTOP-UGUQFEBV MINGW64 ~/MyRepo (master)
$ git remote -v
origin https://github.com/MahamSaleem123/Lab-2.git (fetch)
origin https://github.com/MahamSaleem123/Lab-2.git (push)

User@LAPTOP-UGUQFEBV MINGW64 ~/MyRepo (master)
$ git pull origin bugfix/user-auth-error
info: please complete authentication in your browser...

User@LAPTOP-UGUQFEBV MINGW64 ~/MyRepo (master)
$ git pull origin bugfix/user-auth-error
info: please complete authentication in your browser...
remote: Enumerating objects: 44, done.
remote: Counting objects: 100% (44/44), done.
remote: Compressing objects: 100% (40/40), done.
remote: Total 44 (delta 12), reused 5 (delta 1), pack-reused 0 (from 0)
Unpacking objects: 100% (44/44), 581.00 KiB | 718.00 KiB/s, done.
From https://github.com/MahamSaleem123/Lab-2
* branch          bugfix/user-auth-error -> FETCH_HEAD
* [new branch]     bugfix/user-auth-error -> origin/bugfix/user-auth-error
fatal: refusing to merge unrelated histories

User@LAPTOP-UGUQFEBV MINGW64 ~/MyRepo (master)
$ git fetch origin
From https://github.com/MahamSaleem123/Lab-2
* [new branch]     main -> origin/main

User@LAPTOP-UGUQFEBV MINGW64 ~/MyRepo (master)
$ git checkout bugfix/user-auth-error
branch 'bugfix/user-auth-error' set up to track 'origin/bugfix/user-auth-error'.
Switched to a new branch 'bugfix/user-auth-error'

User@LAPTOP-UGUQFEBV MINGW64 ~/MyRepo (bugfix/user-auth-error)
$ git pull origin bugfix/user-auth-error
From https://github.com/MahamSaleem123/Lab-2
* branch          bugfix/user-auth-error -> FETCH_HEAD
Already up to date.

User@LAPTOP-UGUQFEBV MINGW64 ~/MyRepo (bugfix/user-auth-error)
$ git branch
* bugfix/user-auth-error
master
```


Task 8: Branch Creation and Push Using Git Bash

Feature_db_branch.png

```
USer@LAPTOP-UGUQFEBV MINGW64 ~ (feature/db-connection)
$ cd /c/Users/User/Desktop/Lab-2

USer@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (main)
$ git remote -v
origin  git@github.com:MahamSaleem123/Lab-2.git (fetch)
origin  git@github.com:MahamSaleem123/Lab-2.git (push)

USer@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (main)
$ git checkout -b feature/db-connection
Switched to a new branch 'feature/db-connection'

USer@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (feature/db-connection)
$ git push --set-upstream origin feature/db-connection
Enumerating objects: 26, done.
Counting objects: 100% (26/26), done.
Delta compression using up to 12 threads
Compressing objects: 100% (23/23), done.
Writing objects: 100% (26/26), 406.79 KiB | 1.15 MiB/s, done.
Total 26 (delta 6), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (6/6), done.
remote:
remote: Create a pull request for 'feature/db-connection' on GitHub by visiting
remote:   https://github.com/MahamSaleem123/Lab-2/pull/new/feature/db-connection
remote:
To github.com:MahamSaleem123/Lab-2.git
 * [new branch]      feature/db-connection -> feature/db-connection
branch 'feature/db-connection' set up to track 'origin/feature/db-connection'.

USer@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (feature/db-connection)
$
```

Task 9: Branching & Merging

Branch_create.png

```
USer@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (feature/db-connection)
$ git checkout -b feature-1
Switched to a new branch 'feature-1'

USer@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (feature-1)
$ |
```

Feature_commit.png

```
USer@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (feature-1)
$ notepad main.py

USer@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (feature-1)
$ git add main.py

USer@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (feature-1)
$ git commit -m "Add new function to main.py"
[feature-1 a5c5bf2] Add new function to main.py
1 file changed, 2 insertions(+)
create mode 100644 main.py
```

Merge.png

```
User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (feature-1)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (main)
$ git merge feature-1
Updating 76aff5f..a5c5bf2
Fast-forward
 main.py | 2 ++
 1 file changed, 2 insertions(+)
 create mode 100644 main.py
```

Push_branches.png

```
User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (main)
$ git push origin main
ssh: Could not resolve hostname github.com: Name or service not known
fatal: Could not read from remote repository.

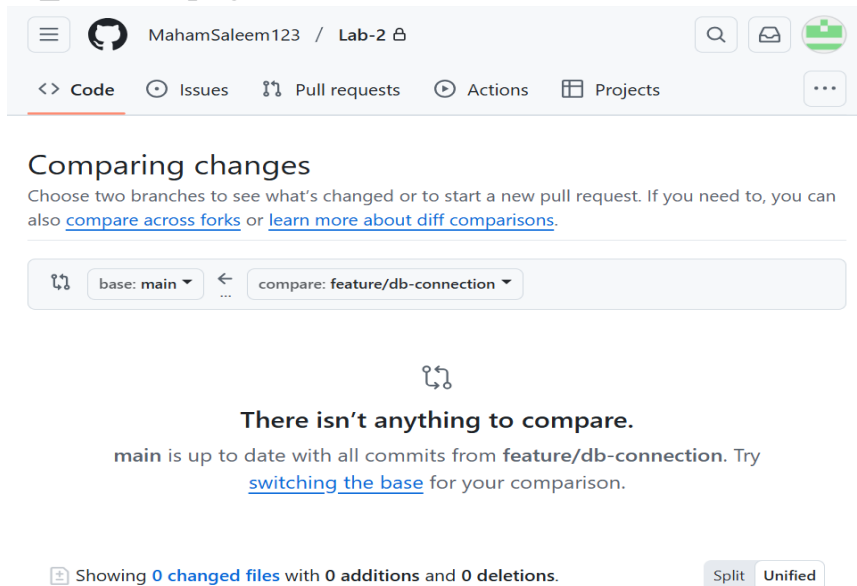
Please make sure you have the correct access rights
remote: Enumerating objects: 28, done.
remote: Counting objects: 100% (28/28), done.
remote: Compressing objects: 100% (27/27), done.
remote: Total 27 (delta 8), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (27/27), 431.47 KiB | 30.00 KiB/s, done.
From https://github.com/MahamSaleem123/Lab-2
 * branch          main      -> FETCH_HEAD
    76aff5f..4cbc67f  main     -> origin/main
Successfully rebased and updated refs/heads/main.

User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (main)
$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 363 bytes | 121.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/MahamSaleem123/Lab-2.git
    4cbc67f..355ae9b  main -> main

User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (main)
$ git push origin feature-1
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 355 bytes | 177.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature-1' on GitHub by visiting:
remote:   https://github.com/MahamSaleem123/Lab-2/pull/new/feature-1
remote:
To https://github.com/MahamSaleem123/Lab-2.git
 * [new branch]      feature-1 -> feature-1
```

Task 10: Pull Request and Branch Review (GitHub GUI)

Pr_creation.png



The screenshot shows the GitHub interface for creating a pull request. At the top, the repository is 'MahamSaleem123 / Lab-2'. The navigation bar includes 'Code', 'Issues', 'Pull requests', 'Actions', and 'Projects'. The 'Pull requests' section is active, showing 'Comparing changes'. Below this, a message states: 'There isn't anything to compare. main is up to date with all commits from feature/db-connection. Try switching the base for your comparison.' The interface also shows 'Showing 0 changed files with 0 additions and 0 deletions' and tabs for 'Split' and 'Unified' views.

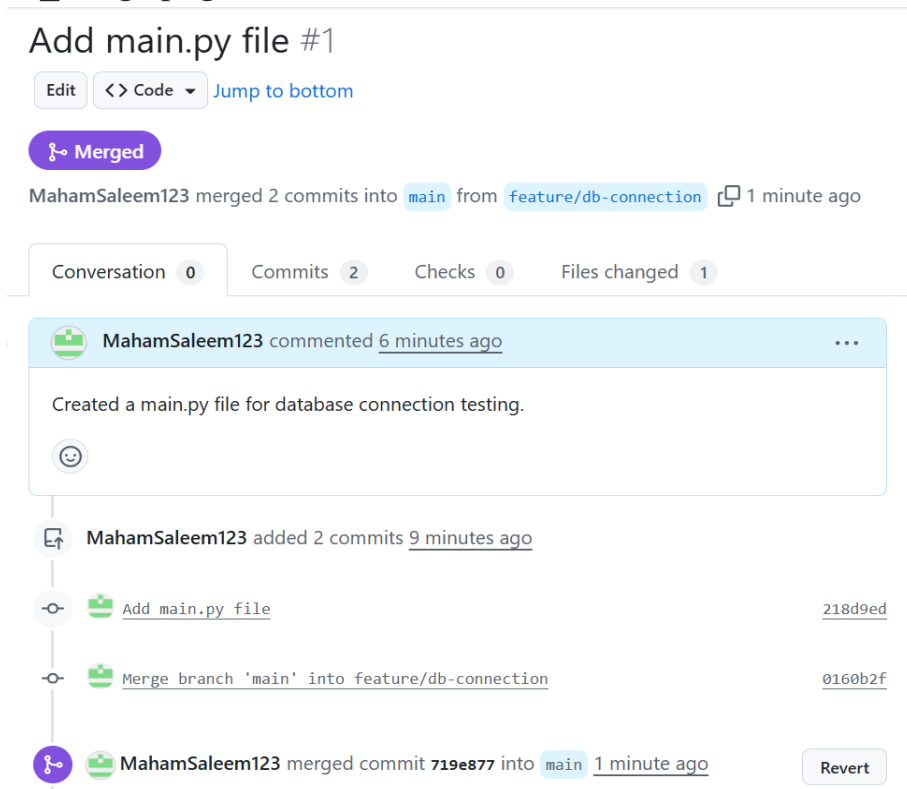
base: main ← compare: feature/db-connection

There isn't anything to compare.

main is up to date with all commits from feature/db-connection. Try [switching the base](#) for your comparison.

Showing 0 changed files with 0 additions and 0 deletions. Split Unified

Pr_merge.png



The screenshot shows the GitHub interface for merging a pull request. The title is 'Add main.py file #1'. It shows the pull request is 'Merged' and 'MahamSaleem123 merged 2 commits into main from feature/db-connection 1 minute ago'. Below this, there are tabs for 'Conversation' (0), 'Commits' (2), 'Checks' (0), and 'Files changed' (1). The 'Conversation' tab is selected, showing a comment from 'MahamSaleem123' stating 'Created a main.py file for database connection testing.' Below the comment, there is a commit history showing 'MahamSaleem123 added 2 commits 9 minutes ago', 'Add main.py file' (218d9ed), and 'Merge branch 'main' into feature/db-connection' (0160b2f). At the bottom, there is a 'Revert' button.

Add main.py file #1

Edit <> Code Jump to bottom

Merged

MahamSaleem123 merged 2 commits into main from feature/db-connection 1 minute ago

Conversation 0 Commits 2 Checks 0 Files changed 1

MahamSaleem123 commented 6 minutes ago

Created a main.py file for database connection testing.

MahamSaleem123 added 2 commits 9 minutes ago

Add main.py file 218d9ed

Merge branch 'main' into feature/db-connection 0160b2f

MahamSaleem123 merged commit 719e877 into main 1 minute ago Revert

Branch_delete.png

Merged

Add main.py file #1

MahamSaleem123 merged 2 commits into `main` from `feature/db-connect...` ...

Add main.py file

218d9ed

Merge branch 'main' into feature/db-connection

0160b2f

MahamSaleem123 merged commit `719e877` into `main` 3 minutes ago

Revert

MahamSaleem123 deleted the `feature/db-connection` branch 1 minute ago

Restore branch

Pull request successfully merged and closed

You're all set — the branch has been merged.

Add a comment

WritePreviewHBI<>@...
Add your comment here...

Task 11: Detailed Branch Strategy (Develop/Staging)

Branch_strategy.png

Branches

New branch









OverviewYoursActiveStaleAll

Q Search branches...

Default

Branch	Updated	Check status	Behind	Ahead	Pull request
<code>main</code>	<div></div> 7 minutes ago				Default





Your branches

Branch	Updated	Check status	Behind
staging 	 1 minute ago		0
develop 	 1 minute ago		0
feature-1 	 15 hours ago		22
bugfix/user-auth-error 	 yesterday		16


Active branches

Branch_merges.png




☆ 0 stars  0 forks  0 watching  7 Branches  0 Tags  Activity

 Private repository

 bugfix/fix-typo had recent pushes 1 minute ago

Compare & pull request

 develop had recent pushes 39 seconds ago

Compare & pull request


 main 




Go to file



<> Code 


 MahamSaleem123 Delete

81c155f · 2 hours ago 

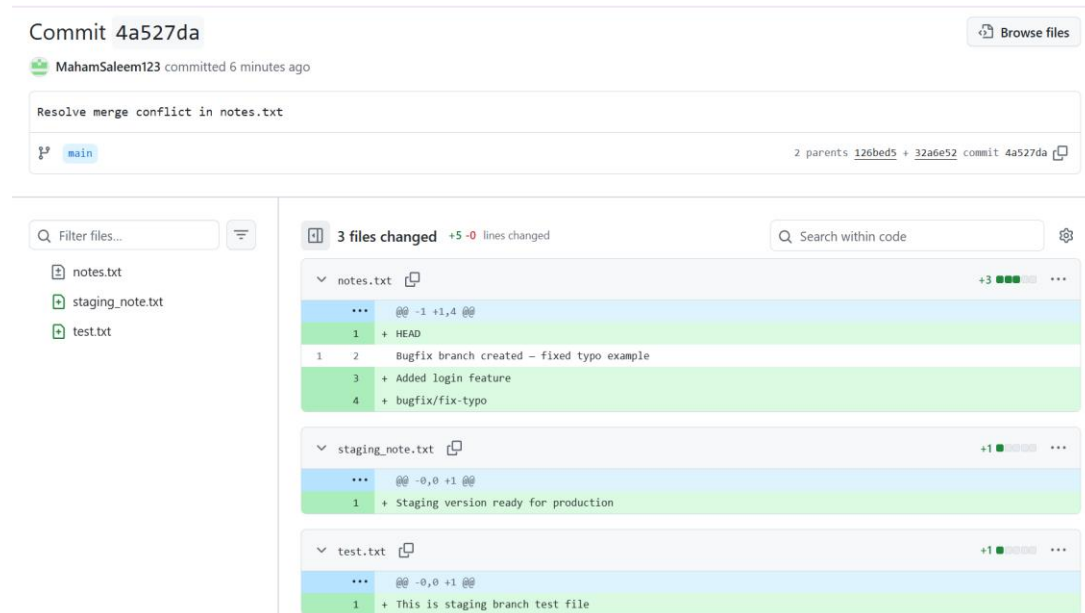
 README.md Initial commit 2 days ago

 branch_create.png Create and switch to branch feat... 16 hours ago

 branch_delete.png Delete 2 hours ago

 bugfix_branch_gui.png Create a branch on GUI yesterday

Final_merge.png



Bonus Task: Simulated Team Collaboration

Collab_commit.png

```
User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (collab)
$ git push origin collab
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/MahamSaleem123/Lab-2.git
  4a527da..8dd215d  collab -> collab

User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (collab)
$ git status
On branch collab
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    notes new.txt

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

User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (collab)
$ mv "notes new.txt" notes.txt

User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (collab)
$ git add notes.txt

User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (collab)
$ git commit -m "Added Maham Saleem and fun fact in collab branch"
On branch collab
nothing to commit, working tree clean
```

```

User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (collab)
$ git push origin collab
Everything up-to-date

User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (collab)
$ git status
On branch collab
nothing to commit, working tree clean

User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (collab)
$ git log --oneline -3
8dd215d (HEAD -> collab, origin/main, origin/collab) Merge Confirmation
2b171a1 Pull requests showing merged branches
b9710b4 Branches on GitHub

```

Collab_merge.png

```

User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (collab)
$ git checkout main
Switched to branch 'main'
Your branch is behind 'origin/main' by 3 commits, and can be fast-forwarded.
(use "git pull" to update your local branch)

User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (main)
$ git merge collab
Updating 4a527da..8dd215d
Fast-forward
 branch_merges.png | Bin 0 -> 97934 bytes
 branch_strategy.png | Bin 0 -> 69742 bytes
 final_merge.png | Bin 0 -> 94897 bytes
 3 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 branch_merges.png
 create mode 100644 branch_strategy.png
 create mode 100644 final_merge.png

User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (main)
$ git push origin main
Everything up-to-date

```

Task 11: Detailed Branch Strategy (Develop/Staging)

Branch_strategy.png

Branches

New branch

Overview

Yours

Active

Stale









All

Q Search branches...

Default

Branch	Updated	Check status	Behind	Ahead	Pull rec
main	7 minutes ago				Default






Your branches

Branch	Updated	Check status	Behind
staging 	 1 minute ago		0
develop 	 1 minute ago		0
feature-1 	 15 hours ago		22
bugfix/user-auth-error 	 yesterday		16


Active branches

Branch_merges.png




☆ 0 stars  0 forks  0 watching  7 Branches  0 Tags  Activity

 Private repository

 [bugfix/fix-typo](#) had recent pushes 1 minute ago

[Compare & pull request](#)

 [develop](#) had recent pushes 39 seconds ago

[Compare & pull request](#)

 [main](#) ▾



[Go to file](#)



[Code](#) ▾



[MahamSaleem123](#) [Delete](#)

81c155f · 2 hours ago



[README.md](#)

Initial commit

2 days ago



[branch_create.png](#)

Create and switch to branch feat...

16 hours ago



[branch_delete.png](#)

Delete

2 hours ago



[bugfix_branch_gui.png](#)

Create a branch on GUI

yesterday

final_merge.png

Commit 4a527da

MahamSaleem123 committed 6 minutes ago

Resolve merge conflict in notes.txt

main

2 parents 126bed5 + 32a6e52 commit 4a527da

Filter files...

notes.txt

staging_note.txt

test.txt

3 files changed +5 -0 lines changed

notes.txt

... @@ -1 +1,4 @@

1 + HEAD

1 2 Bugfix branch created - fixed typo example

3 + Added login feature

4 + bugfix/fix-typo

staging_note.txt

... @@ -0,0 +1 @@

1 + Staging version ready for production

test.txt

... @@ -0,0 +1 @@


1 + This is staging branch test file

Task 12: Code Review Workflow

Pr_create_details.png

Open a pull request

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























 base: main < compare: feature/code-review

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

Add a title

Added code review demo file

Add a description


Write Preview H B I                      


Added a demo file to test pull request workflow.


Pr_assigned_reviewer.png


Added code review demo file #2


Edit <> Code


 Open MahamSaleem123 wants to merge 1 commit into main from feature/code-review


 Conversation


 MahamSaleem123
Added a d


 ainunnoorrr
★ PRO
Joined GitHub this month



 Follow


 Added code review demo file 38be84e


 MahamSaleem123 requested a review from ainunnoorrr 1 minute ago


 **Review requested**
Review has been requested on this pull request. It is not required to merge. [Learn more about requesting a pull request review.](#)


 s changed 1 +1 -0


 Reviewers
 ainunnoorrr

 Assignees
No one—[assign yourself](#)

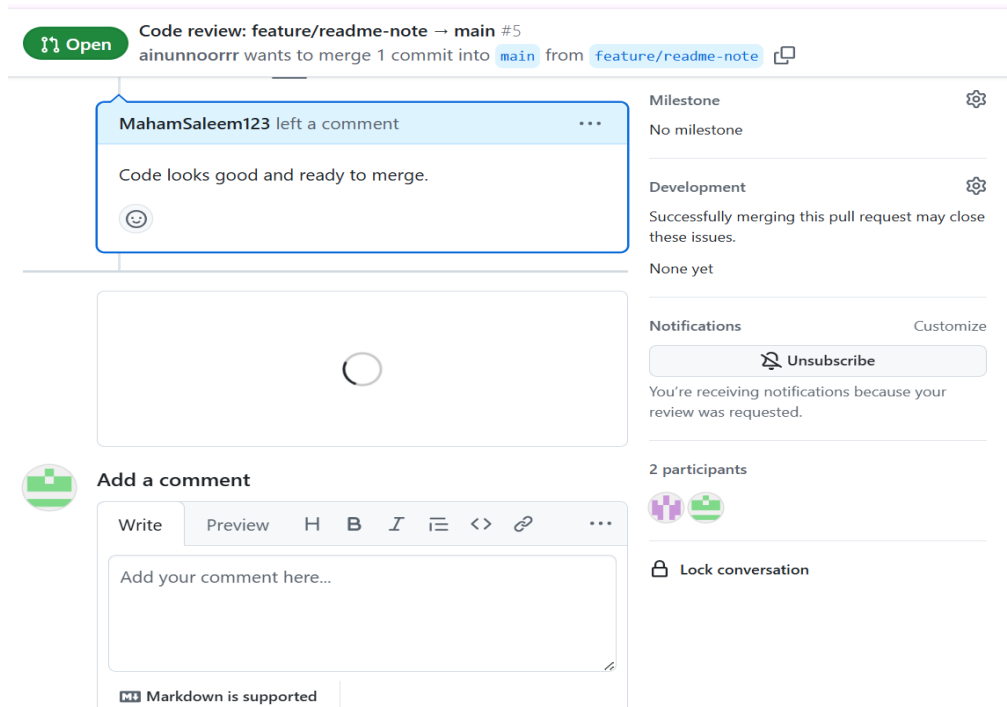
 Labels
None yet

 Projects
None yet

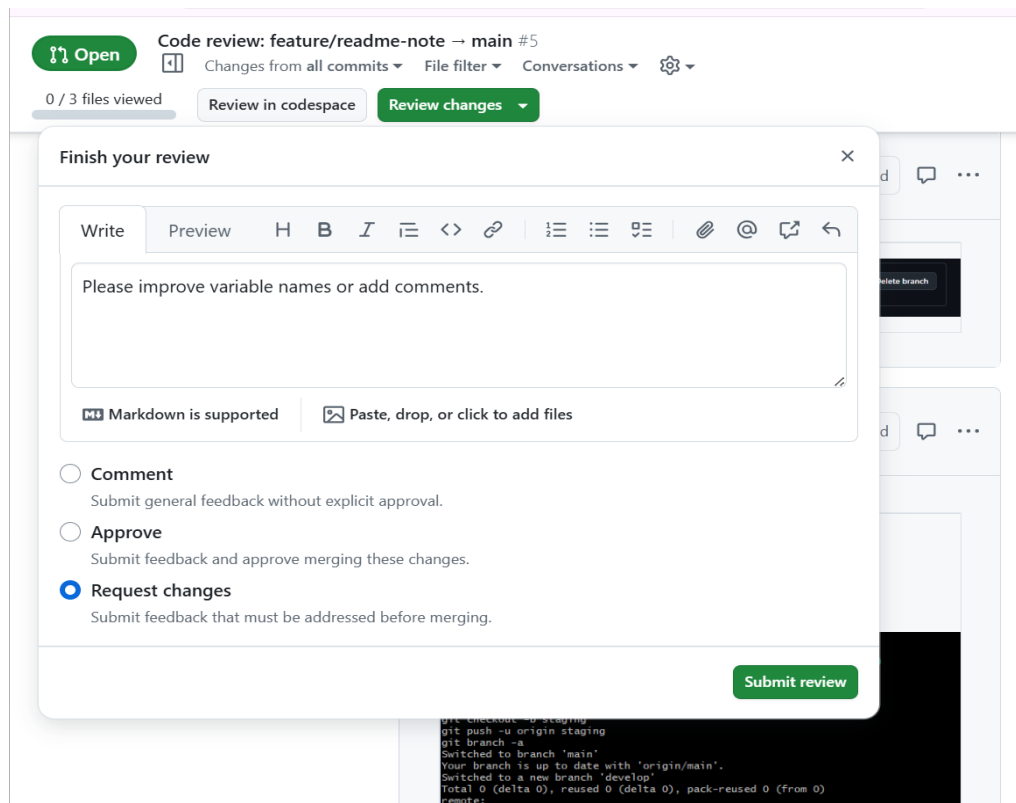
 Milestone

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

Pr_approved.png



Pr_request_changes.png



Pr_updated_with_commits.png

This screenshot shows a GitHub pull request interface. At the top, a green 'Open' button is next to the title 'Added code review demo file #2'. Below the title, it says 'MahamSaleem123 wants to merge 3 commits into main from feature/code-review'. A commit history shows three commits, with the last two labeled 'Fixed issues after review feedback'. On the right, it indicates '2 participants' and a 'Lock conversation' button. A 'Changes reviewed' box shows '1 change requested by reviewers with write access.' and 'No conflicts with base branch'. Below this is a 'Merge pull request' button and a comment section with a 'Write' tab and a rich text editor.

Open Added code review demo file #2
MahamSaleem123 wants to merge 3 commits into `main` from `feature/code-review`

MahamSaleem123 added 2 commits 27 minutes ago

Fixed issues after review feedback 321d91b

Fixed issues after review feedback 39ee52c

2 participants

Lock conversation

Changes reviewed
1 change requested by reviewers with write access.

1 requested change >

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.](#)

Add a comment

Write Preview H B I `≡` < > [@](#) [🔗](#) [↩](#) [📎](#)

Pr_merge_confirm.png

This screenshot shows a GitHub pull request interface. At the top, a green 'Open' button is next to the title 'Restore "Added code review demo file" #3'. Below the title, it says 'MahamSaleem123 wants to merge 1 commit into main from revert-2-feature/c...'. A comment from MahamSaleem123, posted 1 minute ago, says 'Reverting the revert to restore previous changes'. Below the comment, a commit is shown: 'Revert "Added code review demo file"' with a 'Verified' status and hash 'eb711f3'. At the bottom, a 'Commit message' box contains 'Merge pull request #3 from MahamSaleem123/revert-2-feature/code-review'. Below this is an 'Extended description' box containing 'Restore "Added code review demo file"'. At the bottom, it says 'This commit will be authored by 23-22411-035@se.fju.edu.pk.' and has 'Confirm merge' and 'Cancel' buttons.

Open Restore "Added code review demo file" #3
MahamSaleem123 wants to merge 1 commit into `main` from `revert-2-feature/c...`

MahamSaleem123 commented 1 minute ago

Reverting the revert to restore previous changes

Revert "Added code review demo file" Verified eb711f3

Commit message
Merge pull request #3 from MahamSaleem123/revert-2-feature/code-review

Extended description
Restore "Added code review demo file"

This commit will be authored by 23-22411-035@se.fju.edu.pk.

Confirm merge Cancel

Pr_merged.png

Merged

Added code review demo file #2
MahamSaleem123 merged 3 commits into `main` from `feature/code-review` now

Pull request successfully merged and closed

You're all set — the `feature/code-revi`
`ew` branch can be safely deleted.

Delete branch

Add a comment

Pr_branch_deleted.png

Lab-2

Private

Watch 0

`main`

10 Branches

0 Tags

Go to file

Code

MahamSaleem123

Merge branch 'feature/code-review'

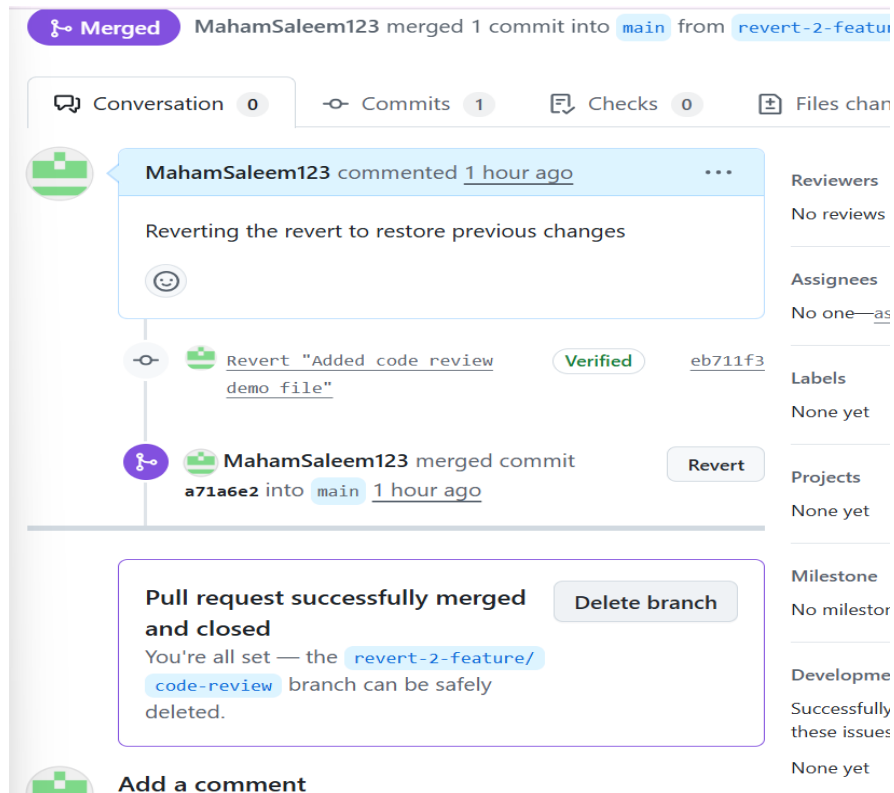
bd40557 · 31 minutes ago

47 Commits

README.md	Initial commit	3 days ago
REVIEW_NOTES.md	Added review notes	33 minutes ago
branch_create.png	Create and switch to branch feature-1	2 days ago
branch_delete.png	Delete	yesterday
branch_merges.png	Pull requests showing merged branches	yesterday
branch_strategy.png	Branches on GitHub	yesterday
bugfix_branch_gui.png	Create a branch on GUI	2 days ago
bugfix_branch_local.png	Pull the new branch into local repo	2 days ago
collab_commit.png	Collab Commit	6 hours ago

Task 13: Branch Cleanup Best Practices

Remote_branch_deleted.png



Remote_branch_delete_cmd.png

```
User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (main)
$ git checkout main
Already on 'main'
Your branch is up to date with 'origin/main'.

User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (main)
$ git pull origin main
From https://github.com/MahamSaleem123/Lab-2
* branch      main      -> FETCH_HEAD
Already up to date.

User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (main)
$ git branch -d feature/code-review
Deleted branch feature/code-review (was d34a57a).

User@LAPTOP-UGUQFEBV MINGW64 /c/Users/User/Desktop/Lab-2 (main)
$ git branch
bugfix/fix-typo
collab
develop
feature-1
feature/add-login
feature/db-connection
* main
staging
```