



CLOUD COMPUTING

BSE (V-B)

Submitted By:

Musfira Farooq

Roll No:

2023-BSE-045

ASSIGNMENT 01

Git, Gitea, GitHub, LFS, and GitHub Pages

TASK 01

Run Gitea in Codespace and Create an Initial Repo

- Connecting to port:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 1
@Musfira-Farooq →/workspaces/assignment-1 (main) $ docker compose up -d
move it to avoid potential confusion
[+] Running 8/8
✓ gitea Pulled 9.4s
✓ 9824c27679d3 Pull complete 0.9s
✓ 307c463a9ebe Pull complete 2.8s
✓ 89986d54bad9 Pull complete 3.3s
✓ e7ea2b7110b2 Pull complete 3.3s
✓ dc71ac9fe925 Pull complete 5.4s
✓ a4ebd224fde1 Pull complete 5.7s
✓ 3b7dba00267e Pull complete 5.7s
[+] Running 2/2
✓ Network assignment-1_default Created 0.1s
✓ Container gitea Started 1.0s
@Musfira-Farooq →/workspaces/assignment-1 (main) $
```

- Port 3000 web address:

Port	Forwarded Address	Running Process	Visibility	Origin
3000	https://fantastic-dis...	/usr/bin/docker-proxy -proto tcp -host-ip ...	Public	Auto Forwarded
Add Port				

- Installing Gitea:

▼ Administrator Account Settings

Creating an administrator account is optional. The first registered user will automatically become an administrator.

Administrator Username

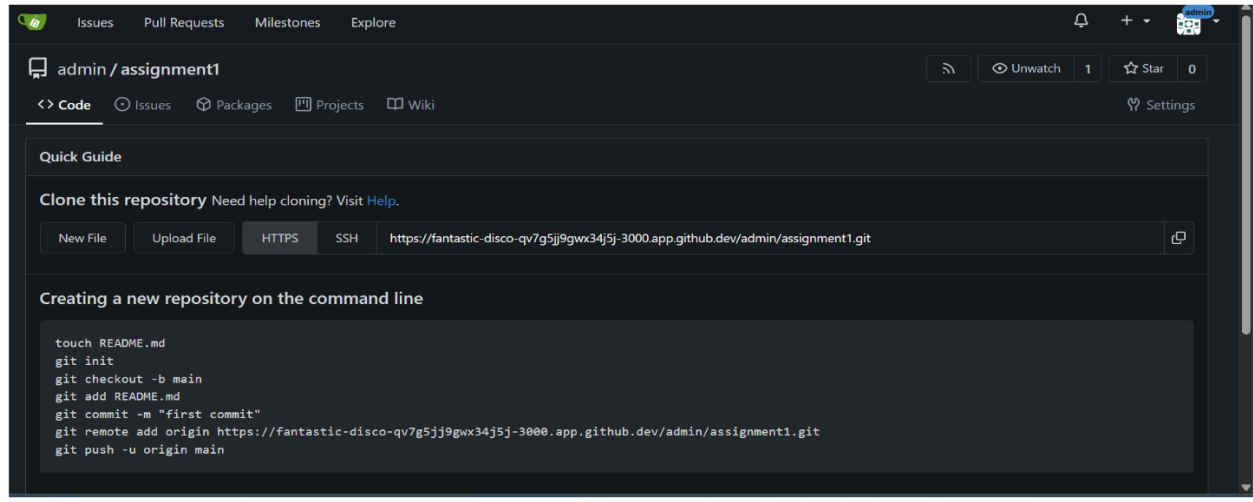
Email Address

Password

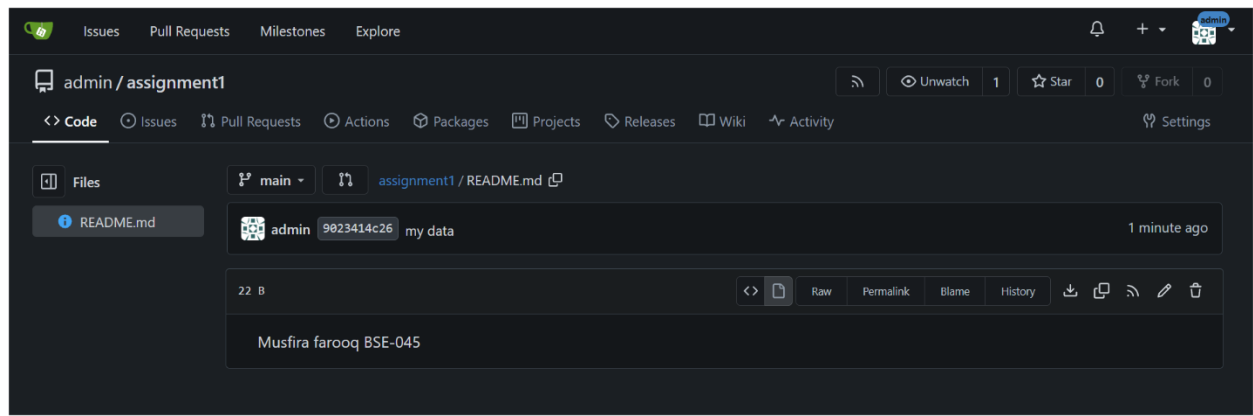
Confirm Password

These configuration options will be written into: `/data/gitea/conf/app.ini`

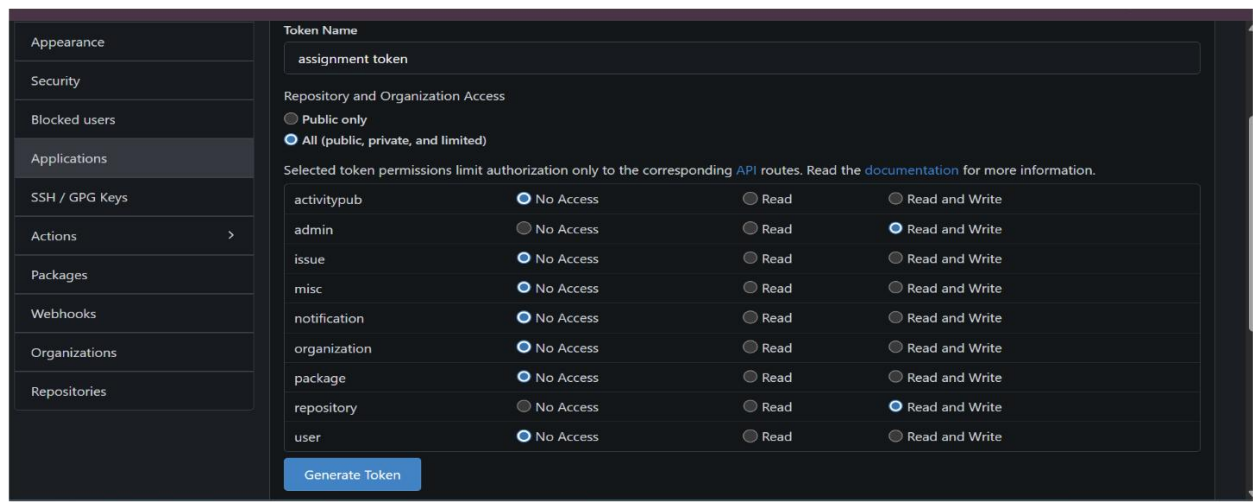
- **Gitea Running in Codespace:**



- **Gitea Repository with README.md:**



- **Git Remote Command (Gitea Remote Added)**



User Settings

Profile

Account

Appearance

Security

Blocked users

Applications

SSH / GPG Keys

Actions

Your new token has been generated. Copy it now as it will not be shown again.

16bbf90bf23b9a5be525d90232add4f6e6011fae

Manage Access Tokens

These tokens grant access to your account using the Gitea API.

assignment token

Added on Oct 19, 2025 — No recent activity

Delete

Generate New Token

Authorized OAuth2 Applications

IssuesPull RequestsMilestonesExplore

admin / assignment1

<> Code

Issues

Pull Requests

Actions

Packages

Projects

Releases

Wiki

Activity

Settings

1 Commit

1 Branch

0 Tags

main

Go to file

Add File

admin 9823414c26 my data

README.md my data

README.md

Musfira farooq BSE-045

Clone

HTTPS

SSH

Tea CLI

https://fantastic-disco-qv7g5jj9gwx34j5j-3000.app.github.dev/admin/assignment1.git

Open with VS Code

Open with VSCodium

Open with IntelliJ IDEA

Download ZIP

Download TAR.GZ

Download BUNDLE

Description

No description provided

Manage Topics

Readme

23 KiB

Powered by Gitea Version: 1.24.6 Page: 24ms Template: 7ms

EnglishLicensesAPI

```
Musfi@DESKTOP-QVTIR80 MINGW64 ~
$ cd "C:/Users/Musfi/Downloads/assignment"

Musfi@DESKTOP-QVTIR80 MINGW64 ~/Downloads/assignment (main)
$ git init
Initialized empty Git repository in C:/Users/Musfi/Downloads/assignment/.git/

Musfi@DESKTOP-QVTIR80 MINGW64 ~/Downloads/assignment (master)
$ git pull
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.

    git pull <remote> <branch>

If you wish to set tracking information for this branch you can do so with:

    git branch --set-upstream-to=<remote>/<branch> master

Musfi@DESKTOP-QVTIR80 MINGW64 ~/Downloads/assignment (master)
$ git remote add gitea https://admin:16bbf90bf23b9a5be525d90232add4f6e6011fae@fantastic-disco-qv7g5jj9gwx34j5j-3000.app.github.dev/admin/assignment1.git

Musfi@DESKTOP-QVTIR80 MINGW64 ~/Downloads/assignment (master)
$ git pull
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 214 bytes | 15.00 KiB/s, done.
From https://fantastic-disco-qv7g5jj9gwx34j5j-3000.app.github.dev/admin/assignment1
* [new branch]      main      -> gitea/main
There is no tracking information for the current branch.
Please specify which branch you want to merge with.
See git-pull(1) for details.

    git pull <remote> <branch>

If you wish to set tracking information for this branch you can do so with:

    git branch --set-upstream-to=gitea/<branch> master

Musfi@DESKTOP-QVTIR80 MINGW64 ~/Downloads/assignment (master)
$ git branch -M main
```

```

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (master)
$ git branch -M main

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git pull gitea main
From https://fantastic-disco-qv7g5jj9gwx34j5j-3000.app.github.dev/admin/assignment1
* branch          main          -> FETCH_HEAD

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ ls
README.md

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ cat README.md
Musfira farooq
BSE-045

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ echo "section V-B" >> README.md

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ cat README.md
Musfira farooq
BSE-045section V-B

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git add .
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git commit -m "Local comit"
[main ffe20c1] Local comit
1 file changed, 1 insertion(+), 1 deletion(-)

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git push -u gitea main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 297 bytes | 148.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: . Processing 1 references
remote: Processed 1 references in total
To https://fantastic-disco-qv7g5jj9gwx34j5j-3000.app.github.dev/admin/assignment1.git
9023414..ffe20c1 main -> main
branch 'main' set up to track 'gitea/main'.

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ |

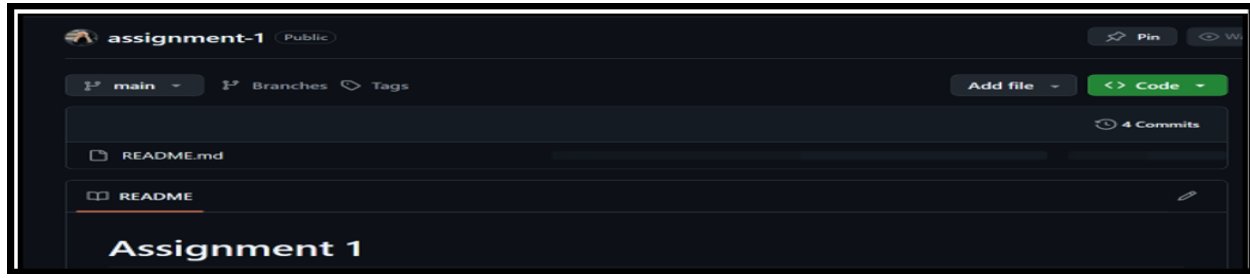
```

The screenshot shows the GitHub interface for a repository named 'admin / assignment1'. The top navigation bar includes links for Issues, Pull Requests, Milestones, and Explore. Below the repository name, there are tabs for Code, Issues, Pull Requests, Actions, Packages, Projects, Releases, Wiki, and Activity. The 'Code' tab is selected, showing a list of commits. The first commit is by 'Musfira-Farooq' with the commit hash 'ffe20c1b22', titled 'Local comit', and made '2 minutes ago'. The commit message is 'Musfira farooq BSE-045section V-B'. The repository has 2 commits, 1 branch, and 0 tags. The right sidebar shows the 'Description' section, which is currently empty, and the 'Readme' section, which is 24 KiB in size.

TASK 02

Mirror README.md from Gitea to GitHub

- GitHub Repository (assignment-1) with readme.md:



- Git Remote Command (Both Remotes):

```
Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git remote set-url github https://github.com/Musfira-Farooq/assignment-1.git

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git remote -v
gitea      https://admin:16bbf90bf23b9a5be525d90232add4f6e6011fae@fantastic-disco-q
v7g5jj9gwx34j5j-3000.app.github.dev/admin/assignment1.git (fetch)
gitea      https://admin:16bbf90bf23b9a5be525d90232add4f6e6011fae@fantastic-disco-q
v7g5jj9gwx34j5j-3000.app.github.dev/admin/assignment1.git (push)
github     https://github.com/Musfira-Farooq/assignment-1.git (fetch)
github     https://github.com/Musfira-Farooq/assignment-1.git (push)

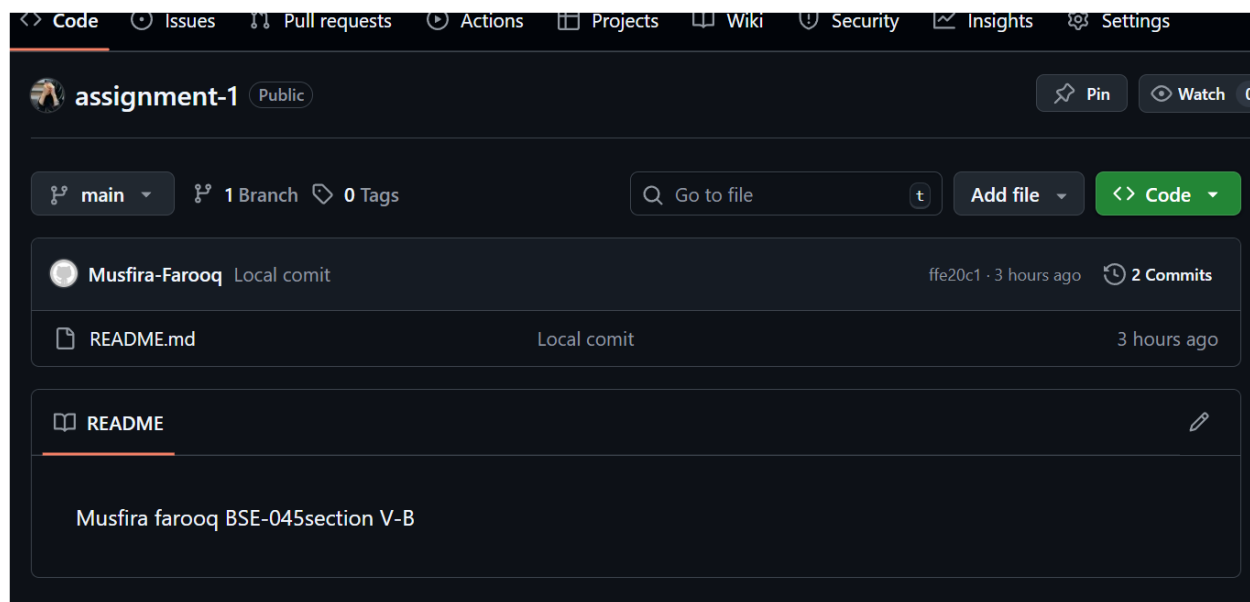
Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git add README.md

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git commit -m "Add README.md"
On branch main
Your branch is up to date with 'gitea/main'.

nothing to commit, working tree clean

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git push github main
Everything up-to-date

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$
```



TASK 03

Use Git LFS for Large Files

- Git LFS Installation:

```
Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git lfs install
Updated Git hooks.
Git LFS initialized.

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git lfs version
git-lfs/3.7.0 (GitHub; windows amd64; go 1.24.4; git 92dddf56)

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ # Create 3 large test files (around 120 MB each)
dd if=/dev/zero of=largefile1.zip bs=1M count=120
dd if=/dev/zero of=largefile2.zip bs=1M count=120
dd if=/dev/zero of=largefile3.zip bs=1M count=120
120+0 records in
120+0 records out
125829120 bytes (126 MB, 120 MiB) copied, 0.104097 s, 1.2 GB/s
120+0 records in
120+0 records out
125829120 bytes (126 MB, 120 MiB) copied, 0.110975 s, 1.1 GB/s
120+0 records in
120+0 records out
125829120 bytes (126 MB, 120 MiB) copied, 0.215029 s, 585 MB/s

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git lfs track "*.zip"
Tracking "*.zip"
```

```
Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ cat .gitattributes
*.zip filter=lfs diff=lfs merge=lfs -text

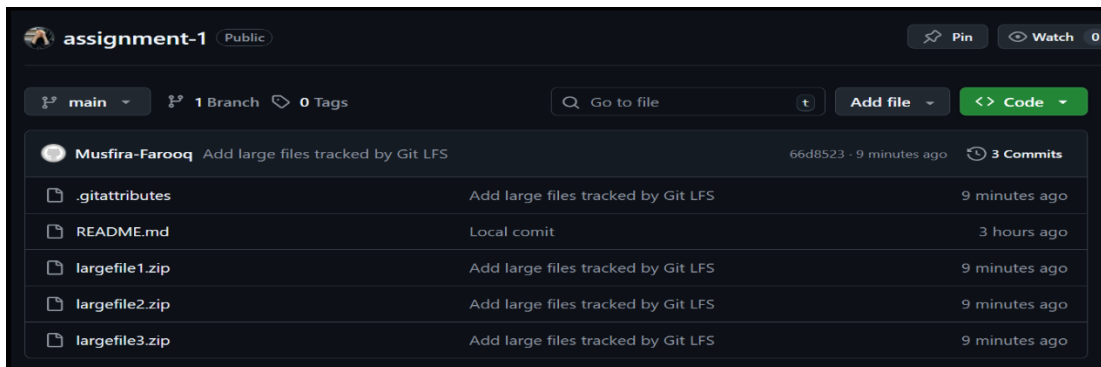
Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git add .gitattributes
git add largefile1.zip largefile2.zip largefile3.zip
git commit -m "Add large files tracked by Git LFS"
[main 66d8523] Add large files tracked by Git LFS
4 files changed, 10 insertions(+)
create mode 100644 .gitattributes
create mode 100644 largefile1.zip
create mode 100644 largefile2.zip
create mode 100644 largefile3.zip

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git push github main
Uploading LFS objects: 100% (1/1), 240 MB | 631 KB/s, done.
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 6 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 525 bytes | 175.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Musfira-Farooq/assignment-1.git
ffe20c1..66d8523 main -> main

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$

Musfi@DESKTOP-QVT1R80 MINGW64 ~/Downloads/assignment (main)
$ git lfs ls-files
5c4fb902a2 * largefile1.zip
5c4fb902a2 * largefile2.zip
5c4fb902a2 * largefile3.zip
```

- GitHub Repository Showing Large Files:



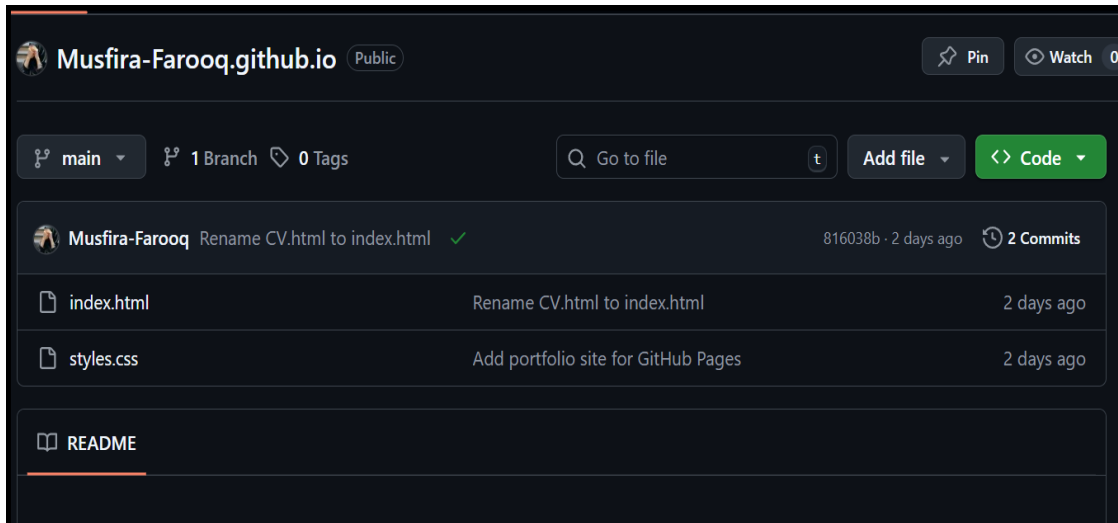
The screenshot shows a GitHub repository interface for 'assignment-1' (Public). The commit history shows a commit by Musfira-Farooq with the message 'Add large files tracked by Git LFS'. The commit details show the following files:

File	Commit Message	Time
.gitattributes	Add large files tracked by Git LFS	9 minutes ago
README.md	Local commit	3 hours ago
largefile1.zip	Add large files tracked by Git LFS	9 minutes ago
largefile2.zip	Add large files tracked by Git LFS	9 minutes ago
largefile3.zip	Add large files tracked by Git LFS	9 minutes ago

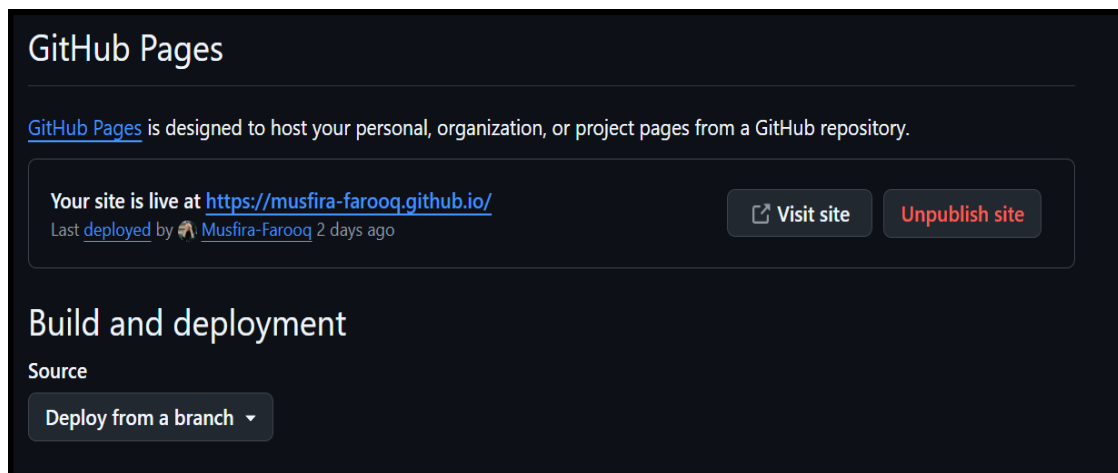
TASK 04

Create a Portfolio/CV with GitHub Pages

- **GitHub Pages Repository:**



- **GitHub Pages Settings:**



- **Live CV Website:**

<https://musfira-farooq.github.io/>

Musfira Farooq

Roll No: 2023-BSE-045

Department of Software Engineering

Fatimah Jinnah Women University, Pakistan

23-22411-045@se.fjwu.edu.pk | 0306-814**** | LinkedIn

Career Objective

Motivated Software Engineering student passionate about AI and Cloud Computing, seeking opportunities to apply my skills in real-world projects and enhance my professional development through innovative learning.

Technical Skills

- Python
- C++

Education

- BS Software Engineering** — Fatimah Jinnah Women University (2023–Present)
- Intermediate (ICS)** — Harvard College of Commerce & Sciences (2020–2022)
- Matriculation (Computer Science)** — Beacon Light School (2020)

Certifications

- Badge x2 in UX Design – Google
- Basics of Data Science – UniAthena
- Basics of Python – UniAthena
- Build Website with AI – Simplilearn
- Business Analysis & Project Management – Coursera
- Canva for Beginners – Simplilearn
- Emotions Management – Coursera
- Google AI Essentials – Coursera
- Google Badge – Coursera
- Graphic Designing – HCO
- AI Program – CodeAlpha
- Python Programming Certificate – UniAthena

Languages

- English – Fluent
- Urdu – Native

Thank you for visiting my online CV.