CLOUD COMPUTING

ASSIGNMENT NO. 1



SUBMITTED TO:

Waqas Saleem

SUBMITTED BY:

Name: Amina Noor

Reg No. 2023-BSE-007

Semester: V-A

CLOUD COMPUTING ASSIGNMENT NO. 1

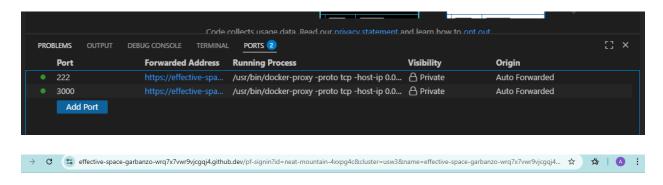
Task List:

Task 1: Run Gitea in Codespace and Create an Initial Repo

Step A: Run Gitea inside Codespace

```
D@23-22411-007-oss →/workspaces/Gitea (main) $ docker run -d --name gitea \
   -p 3000:3000 \
   -p 222:22 \
   gitea/gitea:latest
 Unable to find image 'gitea/gitea:latest' locally
 latest: Pulling from gitea/gitea
 9824c27679d3: Pull complete
 307c463a9ebe: Pull complete
 89986d54bad9: Pull complete
 e7ea2b7110b2: Pull complete
 dc71ac9fe925: Pull complete
 a4ebd224fde1: Pull complete
 3b7dba00267e: Pull complete
 Digest: sha256:2edc102cbb636ae1ddac5fa0c715aa5b03079dee13ac6800b2cef6d4e912e718
 Status: Downloaded newer image for gitea/gitea:latest
 5dad430453655990cf5d27e5bebaa0fcc0242f7ec97f4515ba541870ea35da74
@23-22411-007-oss →/workspaces/Gitea (main) $ 🗍
```

Step B: Forward the port to access Gitea:

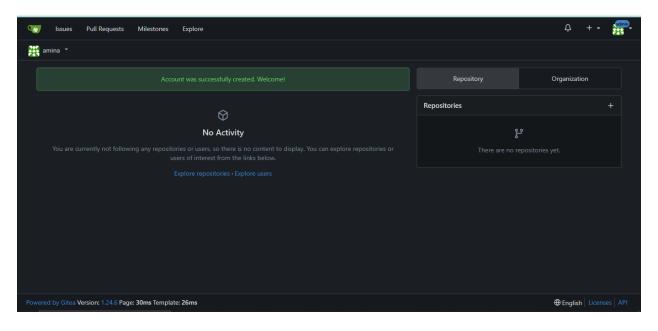




Step C: Set up Gitea in the browser:

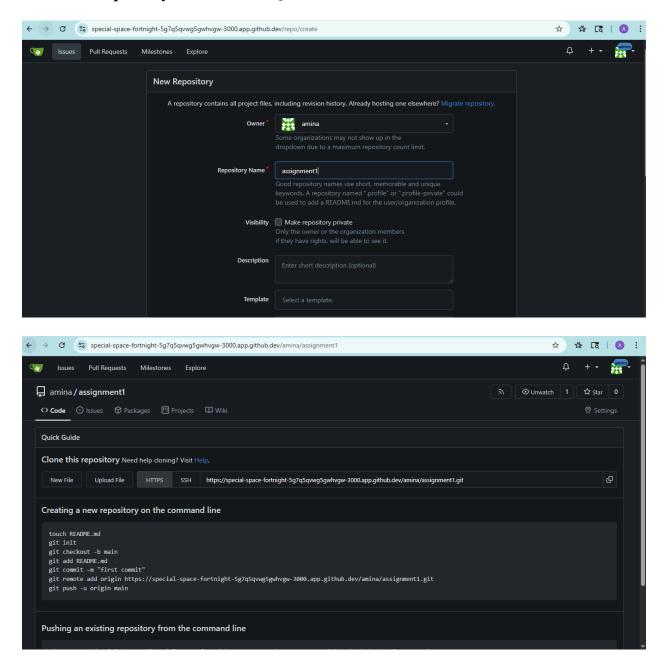
Initial Configuration			
If you run Gitea inside Docker, please read the documentation before changing any settings.			
Database Settings			
Gitea requires MySQL, PostgreSQL, MSSQL, SQLite3 or TiDB (MySQL protocol).			
Database Type *	SQLite3 •		
Path *	/data/gitea/gitea.db		
	File path for the SQLite3 database.		
	Enter an absolute path if you run Gitea as a service.		
	General Settings		
Site Title*	Gitea: Git with a cup of tea		
	You can enter your company name here.		
Repository Root Path *	/data/git/repositories		
	Remote Git repositories will be saved to this directory.		
Git LFS Root Path	/data/git/lfs		
	Files tracked by Git LFS will be stored in this directory. Leave empty to disable.		

Create an admin account.

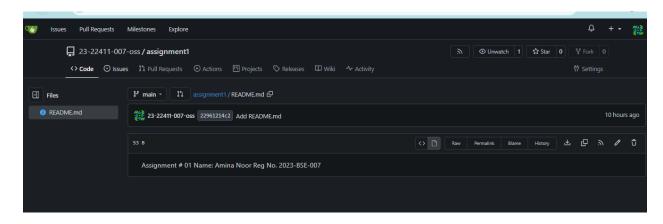


Step D: Create a new repository in Gitea:

Click New Repository → name it assignment1.

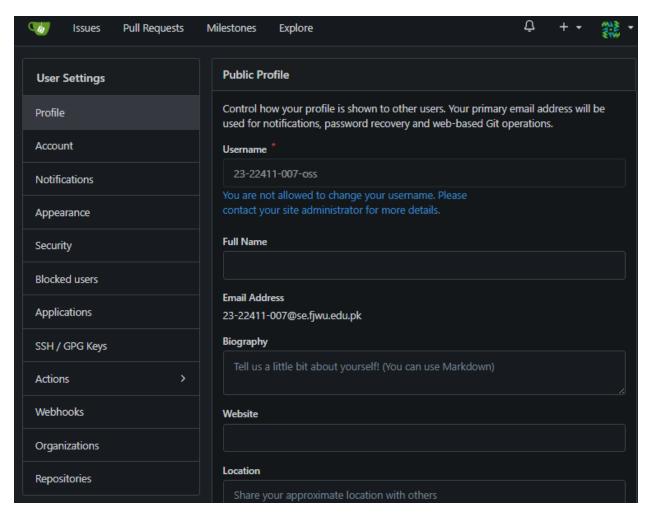


Add a **README.md** listing student names & roll numbers.

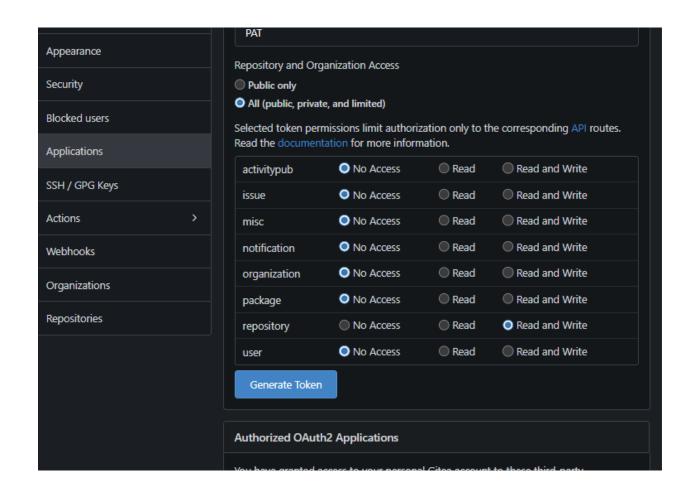


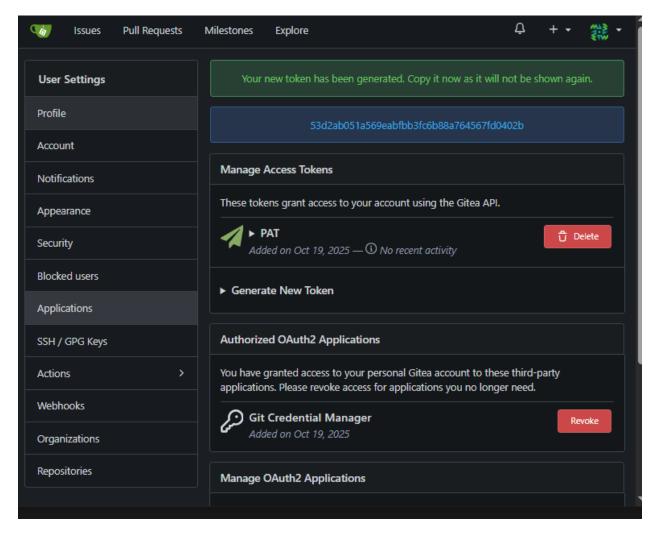
Connect Codespace to Gitea:

Open Settings in Gitea:



Generating Token:





Running commands on Git Bash:

```
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ git init
Reinitialized existing Git repository in C:/Users/lenovo/Documents/CC-AminaNoor-
007/.git/
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ git remote add gitea http://23-22411-007-oss:53d2ab051a569eabfbb3fc6b88a764567
fd0402b@gitea.com/23-22411-007-oss/assignment1.git
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ git pull
remote: Enumerating objects: 11, done.
remote: Counting objects: 100% (11/11), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 10 (delta 0), reused 1 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (10/10), 900 bytes | 15.00 KiB/s, done.
From https://gitea.com/23-22411-007-oss/assignment1
   6438cde..2296121 main -> origin/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=<remote>/<branch> main
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ git branch -M main
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ git pull gitea main
warning: redirecting to https://gitea.com/23-22411-007-oss/assignment1.git/
From http://gitea.com/23-22411-007-oss/assignment1
                               -> FETCH_HEAD
 * branch
                     main
 * [new branch]
                     main
                                -> gitea/main
Updating 6438cde..2296121
Fast-forward
 README.md | 3 +++
 1 file changed, 3 insertions(+)
 create mode 100644 README.md
 enovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ 1s
README.md
```

```
enovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ cat README.md
Assignment # 01
Name: Amina Noor
Reg No. 2023-BSE-007
enovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ echo "Semester: 5-A" >> README.md
enovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
cat README.md
Assignment # 01
Name: Amina Noor
Reg No. 2023-BSE-007Semester: 5-A
enovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ git add .
warning: in the working copy of 'README.md', LF will be replaced by CRLF the nex
t time Git touches it
enovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ git commit -m "local commit"
[main a394912] local commit
1 file changed, 1 insertion(+), 1 deletion(-)
enovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ git push -u gitea main
remote: Unauthorized
atal: Authentication failed for 'http://gitea.com/23-22411-007-oss/assignment1.
git/'
```

```
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ git remote set-url gitea https://gitea.com/23-22411-007-oss/assignment1.git

lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ git push -u gitea main

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 4 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (3/3), 313 bytes | 104.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

remote: . Processing 1 references

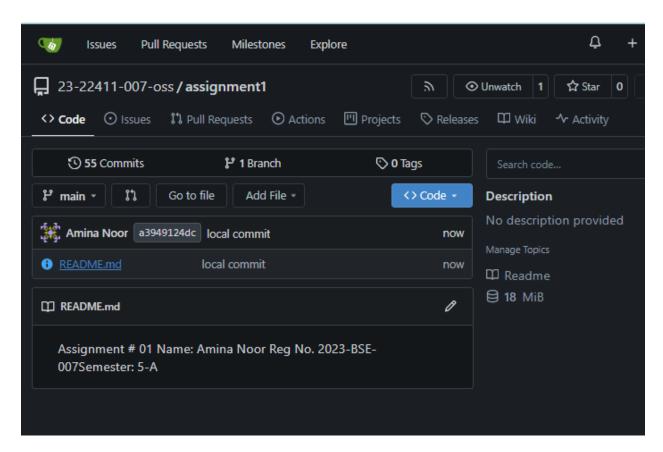
remote: Processed 1 references in total

To https://gitea.com/23-22411-007-oss/assignment1.git

2296121..a394912 main -> main

branch 'main' set up to track 'gitea/main'.
```

On Gitea:

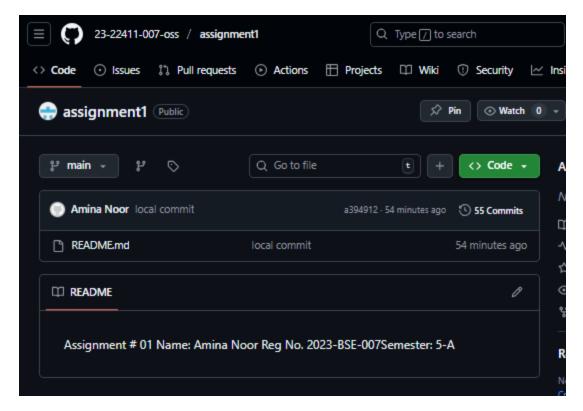


Task 2: Mirror README.md from Gitea to GitHub

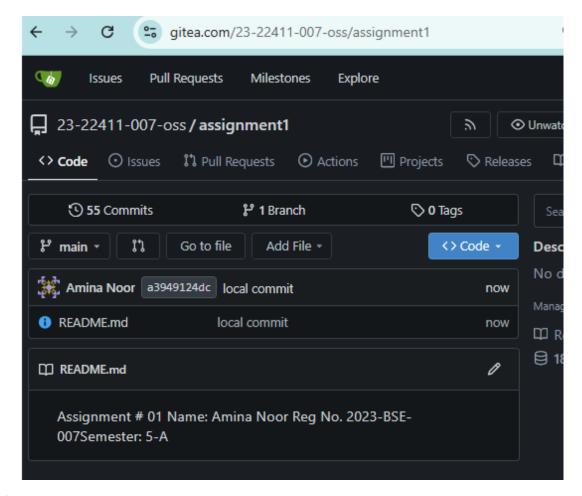
Running commands on Git Bash:

```
enovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ git remote add github https://gitea.com/23-22411-007-oss/assignment1.git
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ git push -u github main
remote: Failed to authenticate user
fatal: Authentication failed for 'https://gitea.com/23-22411-007-oss/assignment1
 git/
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ git remote remove github
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ git remote add github https://github.com/23-22411-007-oss/assignment1.git
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ git push -u github main
remote: Repository not found.
fatal: repository 'https://github.com/23-22411-007-oss/assignment1.git/' not fou
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ git push -u github main
Enumerating objects: 267, done.
Counting objects: 100% (267/267), done.
Delta compression using up to 4 threads
Compressing objects: 100% (194/194), done.
Writing objects: 100% (267/267), 8.75 MiB | 289.00 KiB/s, done.
Total 267 (delta 46), reused 233 (delta 34), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (46/46), done.
To https://github.com/23-22411-007-oss/assignment1.git
 * [new branch]
                    main -> main
branch 'main' set up to track 'github/main'.
```

On GitHub:



On Gitea:



Verify Remotes:

```
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)

$ git remote -v
gitea https://gitea.com/23-22411-007-oss/assignment1.git (fetch)
gitea https://gitea.com/23-22411-007-oss/assignment1.git (push)
github https://github.com/23-22411-007-oss/assignment1.git (fetch)
github https://github.com/23-22411-007-oss/assignment1.git (push)
origin https://gitea.com/23-22411-007-oss/assignment1.git (fetch)
origin https://gitea.com/23-22411-007-oss/assignment1.git (push)
```

Task 3: Use Git LFS for Large Files

Install Git LFS

```
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ git lfs install
Updated Git hooks.
Git LFS initialized.
```

Checking LFS version:

```
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ git lfs version
git-lfs/3.7.0 (GitHub; windows amd64; go 1.24.4; git 92dddf56)
```

Making three big files:

```
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ dd if=/dev/zero of=bigfile1.zip bs=1M count=150
150+0 records in
150+0 records out
157286400 bytes (157 MB, 150 MiB) copied, 0.0800286 s, 2.0 GB/s

lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ dd if=/dev/zero of=bigfile2.zip bs=1M count=200
200+0 records in
200+0 records out
209715200 bytes (210 MB, 200 MiB) copied, 0.0879745 s, 2.4 GB/s

lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ dd if=/dev/zero of=bigfile3.zip bs=1M count=250
250+0 records in
250+0 records out
262144000 bytes (262 MB, 250 MiB) copied, 0.109043 s, 2.4 GB/s
```

Tell Git LFS to track your big files

```
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)

$ git lfs track "*.zip"
Tracking "*.zip"

lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)

$ git add .gitattributes
```

Stage your big files

```
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main) $ git add bigfile1.zip bigfile2.zip bigfile3.zip
```

Commit the changes

```
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)

$ git commit -m "Add large files with Git LFS"
[main 84622ee] Add large files with Git LFS

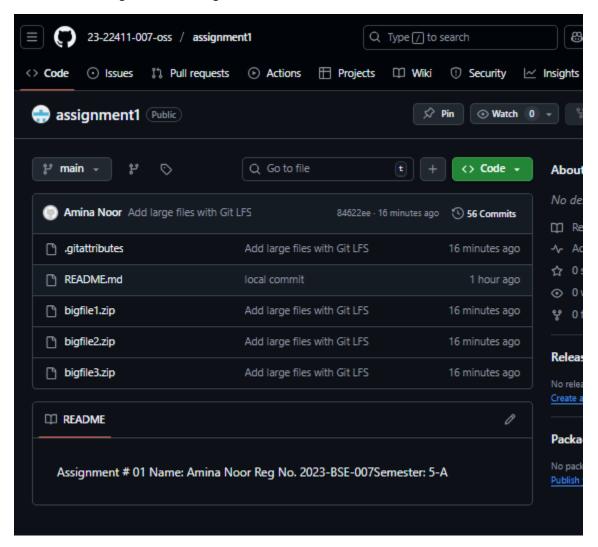
4 files changed, 10 insertions(+)
create mode 100644 .gitattributes
create mode 100644 bigfile1.zip
create mode 100644 bigfile2.zip
create mode 100644 bigfile3.zip
```

Push to GitHub (assignment 1 repo)

```
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)

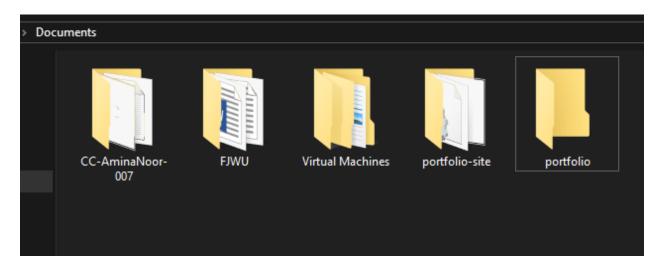
$ git push github main
Uploading LFS objects: 100% (3/3), 629 MB | 878 KB/s, done.
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 4 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (6/6), 797 bytes | 199.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/23-22411-007-oss/assignment1.git
a394912..84622ee main -> main
```

On GitHub after adding those three big files:

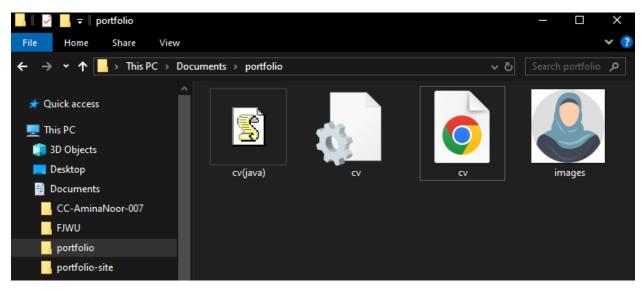


Task 4: Create a Portfolio/CV with GitHub Pages

Create folder named portfolio in your computer:



Now create the .html, .css, .js text files and image.png in this folder.



Initialize Git and Commit Files

```
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/CC-AminaNoor-007 (main)
$ cd ~/Documents/portfolio
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/portfolio (master)
cv(java).js'
               CV. CSS
                         cv.htm
                                  images.png
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/portfolio (master)
Initialized empty Git repository in C:/Users/lenovo/Documents/portfolio/.git/
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/portfolio (master)
$ git add .
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/portfolio (master)
$ git commit -m "Initial commit of portfolio/CV"
[master (root-commit) 2ac111d] Initial commit of portfolio/CV
4 files changed, 256 insertions(+)
create mode 100644 cv(java).js
create mode 100644 cv.css
create mode 100644 cv.htm
create mode 100644 images.png
```

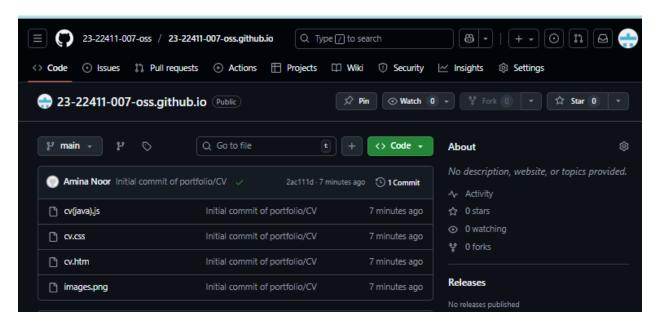
```
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/portfolio (master)
$ git remote add origin https://github.com/23-22411-007-oss/23-22411-007-oss.github.io.git
```

```
lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/portfolio (main)

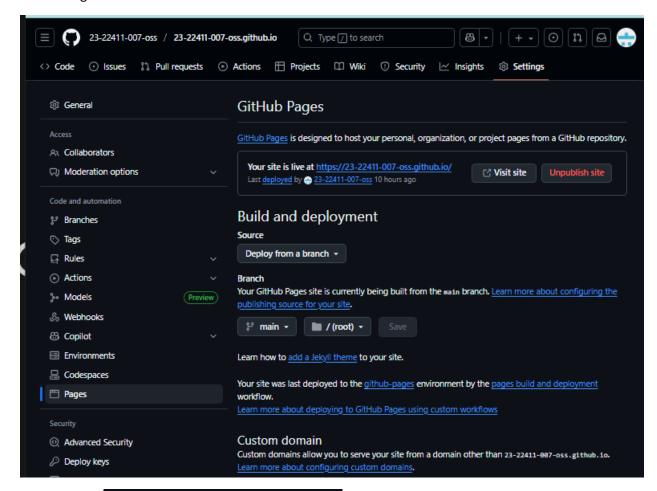
§ git push -u origin main
To https://github.com/23-22411-007-oss/23-22411-007-oss.github.io.git
! [rejected] main -> main (fetch first)
error: failed to push some refs to 'https://github.com/23-22411-007-oss/23-22411-007-oss.github.io.git'
hint: Updates were rejected because the remote contains work that you do not
hint: have locally. This is usually caused by another repository pushing to
hint: the same ref. If you want to integrate the remote changes, use
hint: 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

lenovo@DESKTOP-2IJM5BT MINGW64 ~/Documents/portfolio (main)
§ git push -u origin main --force
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 4 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 7.88 KiB | 1.97 MiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/23-22411-007-oss/23-22411-007-oss.github.io.git
+ 8e20d3d...2ac111d main -> main (forced update)
branch 'main' set up to track 'origin/main'.
```

On GitHub:



GitHub Pages:



Now live link: https://23-22411-007-oss.github.io/

Live Site View:



Amina Noor

Bachelor of Software Engineering — Fatima Jinnah Women University

📞 +92 333 9459176 • 🖂 nooramina685@gmail.com • Rawalpindi, Pakistan

About Education Skills Expertise

About Me

Personable and motivated, equipped with foundational knowledge and technical skills in project management and data analysis. Familiar with Microsoft Office and basic coding languages Aims to leverage these skills to contribute to team success and drive positive outcomes.

Education

Fatima Jinnah Women University

Rawalpindi — 2023 - Present

Bachelor of Software Engineering

Fauji Foundation College

Rawalpindi — 2021 - 2023

FSc - ICS

Army Public School & College (FWO)

Rawalpindi --- 2019 - 2021

Computer Science

Skills Summary

- C++
- SQL
- Project Management
 Microsoft Office

Expertise

Management Skills Critical Thinking Leadership

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