

Cloud Computing



Assignment # 1

Submitted To: Engr. Waqas Saleem

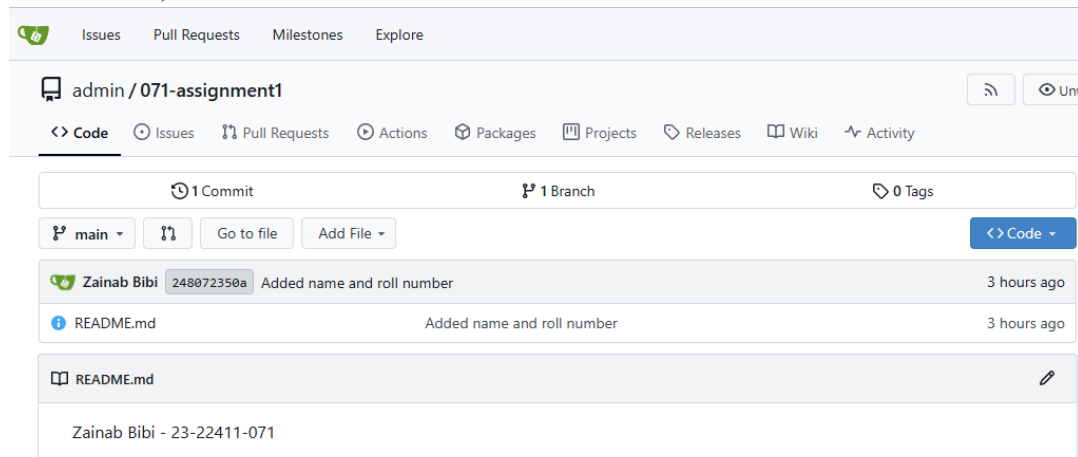
Submitted By: Zainab Bibi

Registration No: 2023-BSE-071

BSE 5-B

Submission Checklist:

- Screenshot of your Gitea repository (showing README listing names & roll numbers)



- GitHub assignment 1 repo link (with README and large files)

<https://github.com/23-22411-071-eng/assignment1>

- Screenshot or output of git remote -v showing both remotes

```
Hp@DESKTOP-LS90FPS MINGW64 ~/071-assignment1 (main)
$ git remote -v
github https://github.com/23-22411-071-eng/assignment1.git (fetch)
github https://github.com/23-22411-071-eng/assignment1.git (push)
origin https://legendary-space-bassoon-v6jvjw79r47v3rvw-3000.app.github.dev/admin/071-assignment1.git (fetch)
origin https://legendary-space-bassoon-v6jvjw79r47v3rvw-3000.app.github.dev/admin/071-assignment1.git (push)

Hp@DESKTOP-LS90FPS MINGW64 ~/071-assignment1 (main)
$ |
```

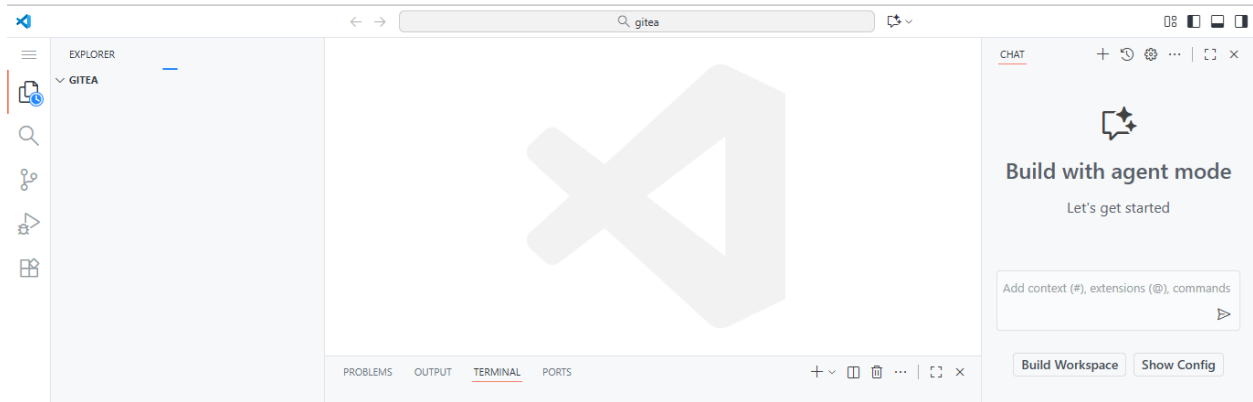
- GitHub Pages link to your CV/portfolio

<https://23-22411-071-eng.github.io/>

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

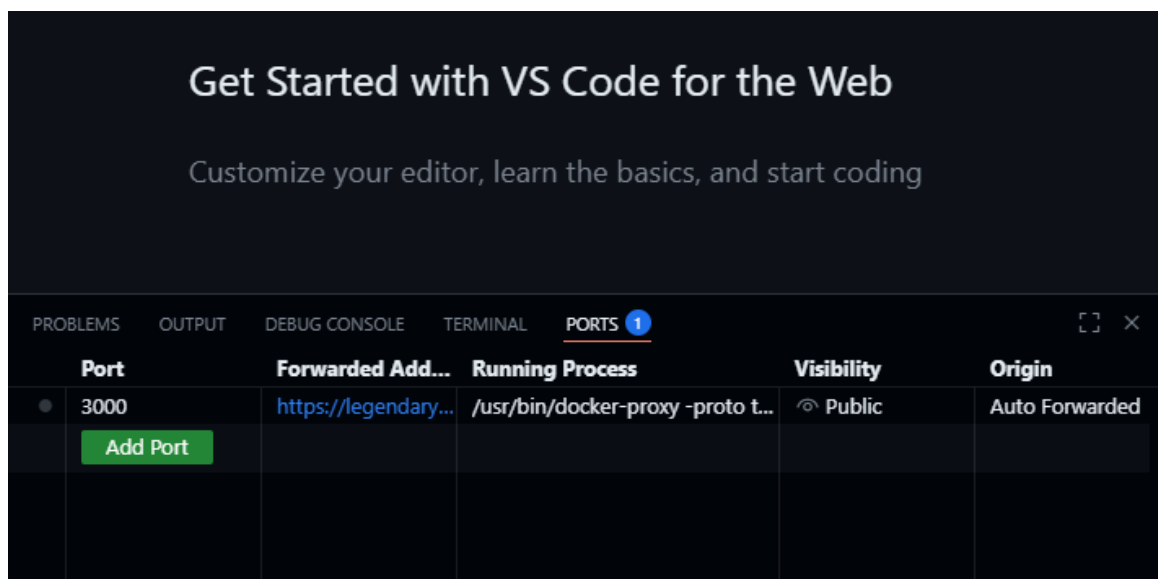
1. Set up Gitea:

Creating Github Codespaces Installing and running Gitea inside Codespace. Accessing Gitea in Codespace browser



```
17.
Edit away, run your app as usual, and we'll automatically make it available for you to access.

@23-22411-071-eng →/workspaces/Giteaa (main) $ docker compose up -d
[+] Running 19/19
  ✓ gitea Pulled                                20.8s
  ✓ db Pulled                                   20.9s
[+] Running 5/5
  ✓ Network webnet          Created              0.5s
  ✓ Volume "gitea_postgres" Created              0.0s
  ✓ Volume "gitea"          Created              0.0s
  ✓ Container gitea_db       Started              2.8s
  ✓ Container gitea         Started              2.9s
@23-22411-071-eng →/workspaces/Giteaa (main) $
```



Initial Configuration

If you run Gitea inside Docker, please read the [documentation](#) before changing any settings.

Database Settings

Gitea requires MySQL, PostgreSQL, MSSQL, SQLite or TDB (MySQL preferred).

Database Type: PostgreSQL

Host: db/5432

Username: gitea

Password: *****

Database Name: gitea

SSL: Disable

Suburl: (Leave blank for database default "/public")

Administrator Account Settings

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

Administrator Username: admin

Email Address: admin@gmail.com

Password: *****

Confirm Password: *****

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

Install Gitea

Issues Pull Requests Milestones Explore

admin

No Activity

You are currently not following any repositories or users, so there is no content to display. You can explore repositories or users of interest from the links below.

[Explore repositories](#) · [Explore users](#)

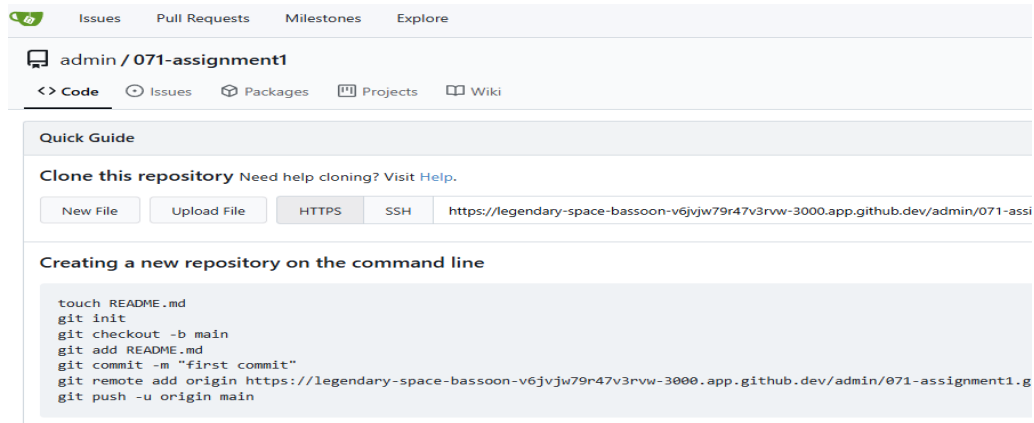
Repository Organization

Repositories +

There are no repositories yet.

2.Create a repository

Create a new repository on your Gitea server. Add a README.md file listing each student's name and roll number.



3. Add remote repo

Push your initial commit containing the README.md to Gitea.

```

● @23-22411-071-eng →/workspaces/Giteaa (main) $ git clone https://legendary-space-bassoon-v6jvw79r47v3rvw-3000.app.github.dev/admin/071-assignment1.git
Cloning into '071-assignment1'...
warning: You appear to have cloned an empty repository.

● @23-22411-071-eng →/workspaces/Giteaa/071-assignment1 (main) $ echo "Zainab Bibi - 23-22411-071" > README.md
● @23-22411-071-eng →/workspaces/Giteaa/071-assignment1 (main) $ git add README.md
● @23-22411-071-eng →/workspaces/Giteaa/071-assignment1 (main) $ git commit -m "Added name and roll number"
[main (root-commit) 2480723] Added name and roll number
 1 file changed, 1 insertion(+)
 create mode 100644 README.md
● @23-22411-071-eng →/workspaces/Giteaa/071-assignment1 (main) $ git push origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 256 bytes | 256.00 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://legendary-space-bassoon-v6jvw79r47v3rvw-3000.app.github.dev/admin/071-assignment1.git
 * [new branch]      main -> main
○ @23-22411-071-eng →/workspaces/Giteaa/071-assignment1 (main) $

```

Task 2: Mirror README.md from Gitea to GitHub

1. Continue Working with Your Existing Repository: You will use the same repository that you created and pushed to your Gitea server in Task 1.

```

Hp@DESKTOP-LS90FPS MINGW64 ~ (master)
$ git clone https://legendary-space-bassoon-v6jvw79r47v3rvw-3000.app.github.dev/admin/071-assignment1.git
Cloning into '071-assignment1'...
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)
Receiving objects: 100% (3/3), done.

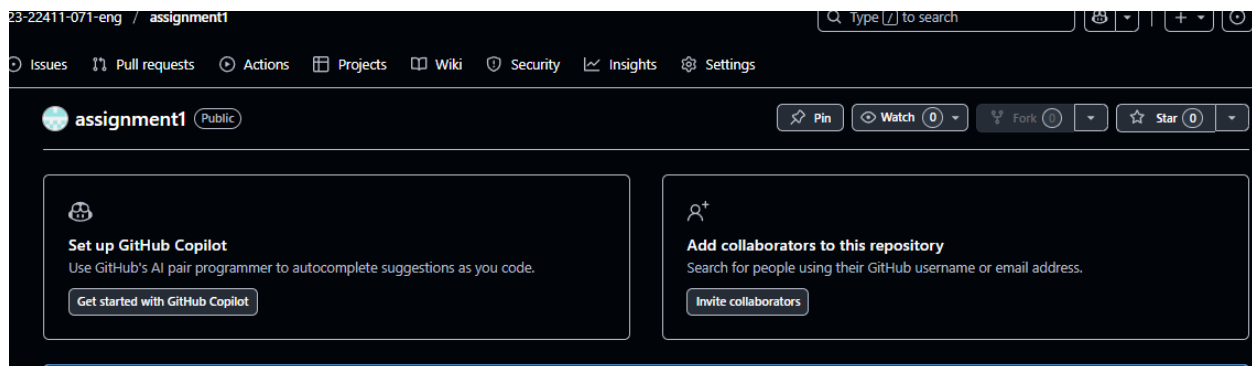
Hp@DESKTOP-LS90FPS MINGW64 ~ (master)
$ cd 071-assignment1

Hp@DESKTOP-LS90FPS MINGW64 ~/071-assignment1 (main)
$ ls
README.md

Hp@DESKTOP-LS90FPS MINGW64 ~/071-assignment1 (main)
$

```

2. Create GitHub Repository: Create a new GitHub repository named assignment 1.



3. Add GitHub as a Second Remote: Add your GitHub repository as a remote to your local repository: `git remote add github https://github.com/23-22411-071-eng/assignment1.git`

```
Hp@DESKTOP-LS90FPS MINGW64 ~/071-assignment1 (main)
$ git remote add github https://github.com/23-22411-071-eng/assignment1.git
```

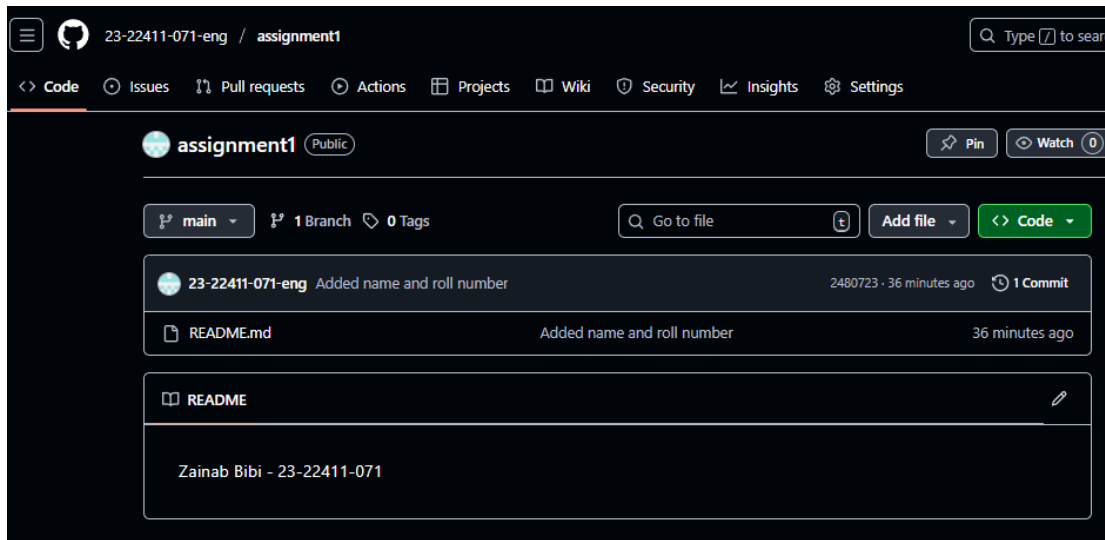
4. Push the README.md File to GitHub: Push the contents (including the README.md) from your local repository to GitHub.

```
Hp@DESKTOP-LS90FPS MINGW64 ~/071-assignment1 (main)
$ git push github main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 256 bytes | 256.00 KiB/s, done.
Total 3 (delta 0), reused 3 (delta 0), pack-reused 0 (from 0)
To https://github.com/23-22411-071-eng/assignment1.git
 * [new branch]      main -> main
```

5. Verify Remotes: Run `git remote -v` and ensure both remotes (gitea and github) are listed.

```
Hp@DESKTOP-LS90FPS MINGW64 ~/071-assignment1 (main)
$ git remote -v
github https://github.com/23-22411-071-eng/assignment1.git (fetch)
github https://github.com/23-22411-071-eng/assignment1.git (push)
origin https://legendary-space-bassoon-v6jv79r47v3rvw-3000.app.github.dev/adm
in/071-assignment1.git (fetch)
origin https://legendary-space-bassoon-v6jv79r47v3rvw-3000.app.github.dev/adm
in/071-assignment1.git (push)

Hp@DESKTOP-LS90FPS MINGW64 ~/071-assignment1 (main)
$ |
```



Task 3: Use Git LFS for Large Files

1. Install Git LFS: Set up Git LFS in your local repository.

```
Hp@DESKTOP-LS90FPS MINGW64 ~/071-assignment1 (main)
$ git lfs version
git-lfs/3.7.0 (GitHub; windows amd64; go 1.24.4; git 92dddf56)

Hp@DESKTOP-LS90FPS MINGW64 ~/071-assignment1 (main)
$ git lfs install
Updated Git hooks.
Git LFS initialized.
```

2. Add Large Files: Add three files larger than 100 MB each to your repository. Track them using Git LFS: `git lfs track "*.ext"`. Replace `.ext` with the appropriate file extension.

```
Hp@DESKTOP-LS90FPS MINGW64 ~/071-assignment1 (main)
$ fsutil file createnew large1.zip 120000000
fsutil file createnew large2.zip 130000000
fsutil file createnew large3.zip 140000000
File C:\Users\Hp\071-assignment1\large1.zip is created
File C:\Users\Hp\071-assignment1\large2.zip is created
File C:\Users\Hp\071-assignment1\large3.zip is created

Hp@DESKTOP-LS90FPS MINGW64 ~/071-assignment1 (main)
$ git lfs track "*.zip"
Tracking "*.zip"

Hp@DESKTOP-LS90FPS MINGW64 ~/071-assignment1 (main)
$ git add .gitattributes
```

3. Reference in Assignment Repo: Commit and push these large files to your GitHub assignment 1 repo. Ensure the files are referenced correctly in your repository history

```
Hp@DESKTOP-LS90FPS MINGW64 ~/071-assignment1 (main)
$ git push github main
Uploading LFS objects: 100% (3/3), 390 MB | 1.1 MB/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), 795 bytes | 113.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/23-22411-071-eng/assignment1.git
2480723..180320a main -> main

Hp@DESKTOP-LS90FPS MINGW64 ~/071-assignment1 (main)
$
```

The screenshot shows the GitHub interface for a repository named 'assignment1'. At the top, there are buttons for 'Pin' and 'Watch'. Below the repository name, it shows 'main' branch, '1 Branch', and '0 Tags'. A search bar and buttons for 'Add file' and 'Code' are also visible. The main content area displays a commit history table for the user '23-22411-071-eng'. The table lists several commits, each adding files tracked with Git LFS. Below the table, there is a 'README' section with the text 'Zainab Bibi - 23-22411-071'.

| File | Description | Time |
|----------------|--|----------------|
| .gitattributes | Added large files tracked with Git LFS | 43 minutes ago |
| README.md | Added name and roll number | 1 hour ago |
| large1.zip | Added large files tracked with Git LFS | 43 minutes ago |
| large2.zip | Added large files tracked with Git LFS | 43 minutes ago |
| large3.zip | Added large files tracked with Git LFS | 43 minutes ago |

README

Zainab Bibi - 23-22411-071

Task 4: Create a Portfolio/CV with GitHub Pages

1. Create a new repository for GitHub Pages: Create a new repository named <your-username>.github.io. Replace <your-username> with your actual GitHub username (e.g., johnsmith.github.io).

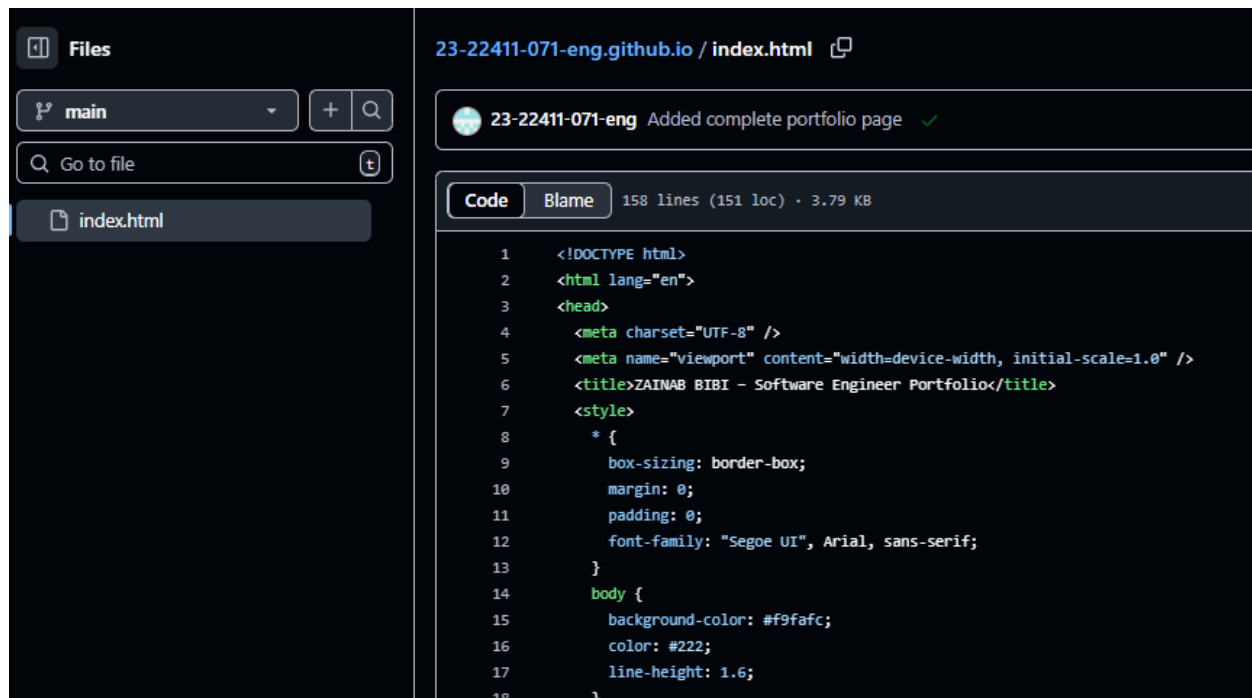


2. Design Your Portfolio/CV: Create your portfolio or CV in HTML/CSS (or use a static site generator).

```

Hp@DESKTOP-LS90FPS MINGW64 ~/23-22411-071-eng.github.io (main)
$ cat > index.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>ZAINAB BIBI - Software Engineer Portfolio</title>
  <style>
    * {
      box-sizing: border-box;
      margin: 0;
      padding: 0;
      font-family: "Segoe UI", Arial, sans-serif;
    }
    body {
      background-color: #f9fafc;
      color: #222;
      line-height: 1.6;
    }
    header {
      background: #005fa3;
      color: #fff;
      text-align: center;
      padding: 30px 20px;
    }
    header h1 {
      font-size: 2.2rem;
      margin-bottom: 5px;

```



3. Publish with GitHub Pages: Push your portfolio/CV files to the <your-username>.github.io repository. Enable GitHub Pages in your repository settings if not automatically enabled. Publish your site and share the link.

```
Hp@DESKTOP-LS90FPS MINGW64 ~/23-22411-071-eng.github.io (main)
$ git add index.html
warning: in the working copy of 'index.html', LF will be replaced by CRLF the
xt time Git touches it


Hp@DESKTOP-LS90FPS MINGW64 ~/23-22411-071-eng.github.io (main)
$ git commit -m "Added complete portfolio page"
[main (root-commit) 7667f3c] Added complete portfolio page
1 file changed, 158 insertions(+)
create mode 100644 index.html

Hp@DESKTOP-LS90FPS MINGW64 ~/23-22411-071-eng.github.io (main)
$ git push origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 1.69 KiB | 578.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/23-22411-071-eng.github.io/23-22411-071-eng.github.io.git
* [new branch]      main -> main
```

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Your site is live at <https://23-22411-071-eng.github.io/>

Last deployed by  23-22411-071-eng 2 minutes ago

[Visit site](#)

[Unpublish site](#)


Build and deployment


Source

Deploy from a branch ▾

Branch

Your GitHub Pages site is currently being built from the `main` branch. [Learn more about configuring the publishing source for your site.](#)


 `main` ▾

 `/ (root)` ▾


Save

Zainab Bibi

Software Engineer (Junior Year Student – FJWU)

 0300-0000000

 zainabbibi5858@gmail.com

 Rawalpindi, Pakistan

Objective

Motivated Software Engineering student with skills in Git, GitHub, Gitea, and web development, eager to apply my knowledge to real-world projects and team collaborations.

Education

- **BSc Software Engineering**
Fatima Jinnah Women University – 2023 to 2027
- **Intermediate in Computer Science**
FBISE – 2021 to 2023

Skills

Git, GitHub, Gitea

Web Development

Python, C++,
HTML, CSS

SQL & Database
Design

Visual Paradigm

Microsoft Office

Digital Marketing

Artificial
Intelligence (AI)