Name: Lujain Zia
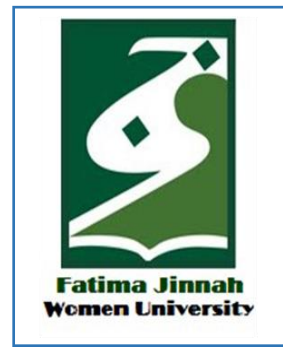**Roll no:** 2023-BSE-034
Date: October 12, 2025

Assignment 1

Task 1: Run Gitea in Codespace and Create an Initial Repo
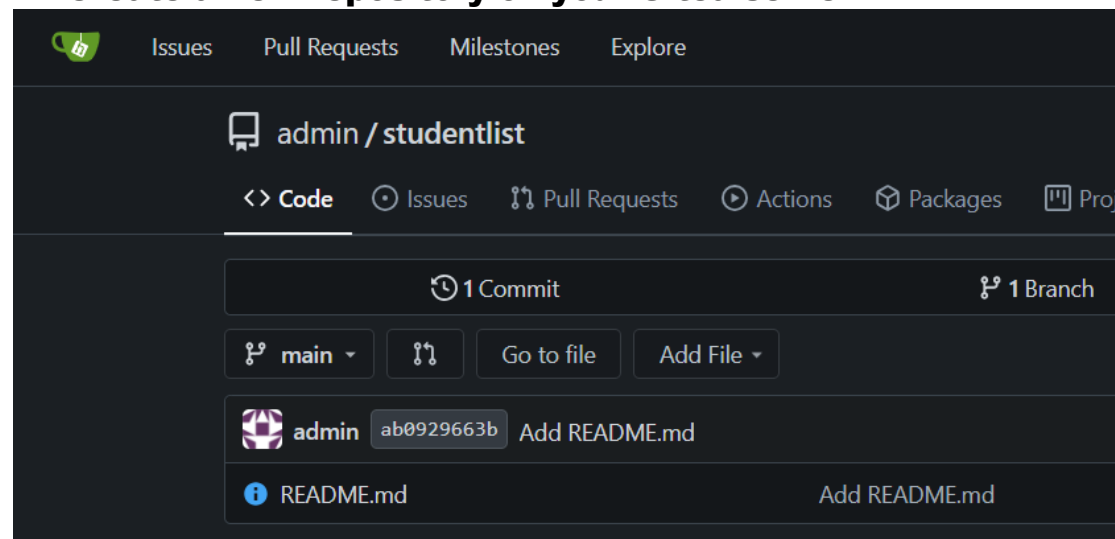
1. Set up Gitea:
   - **Run a Gitea server inside your Codespace.**
   - **Use HTTPS for communication (SSH is not supported in Codespace).**

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.**

```
user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$ touch README.md

user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$ echo "Lujain Zia 2023-BSE-034" > README.md

user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the nex
t time Git touches it

user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$ git commit -m "student info"
[main (root-commit) 0f46130] student info
 1 file changed, 1 insertion(+)
 create mode 100644 README.md

user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$ |
```

3. Add Remote Repo:
   - Use the following command to add your Gitea repository as a remote:
     git remote add gitea <your_gitea_repo_https_url>
   - Push your initial commit containing the README.md to Gitea.

```
user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$ git remote add gitea https://gitea.com/lujainzia127/studentlist.git

user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$ git remote -v
gitea    https://gitea.com/lujainzia127/studentlist.git (fetch)
gitea    https://gitea.com/lujainzia127/studentlist.git (push)
origin   https://gitea.com/lujainzia127/studentlist.git (fetch)
origin   https://gitea.com/lujainzia127/studentlist.git (push)

user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$ git push gitea main
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (6/6), 473 bytes | 236.00 KiB/s, done.
Total 6 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: . Processing 1 references
remote: Processed 1 references in total
To https://gitea.com/lujainzia127/studentlist.git
   7175332..55cbe1d  main -> main

user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$
```
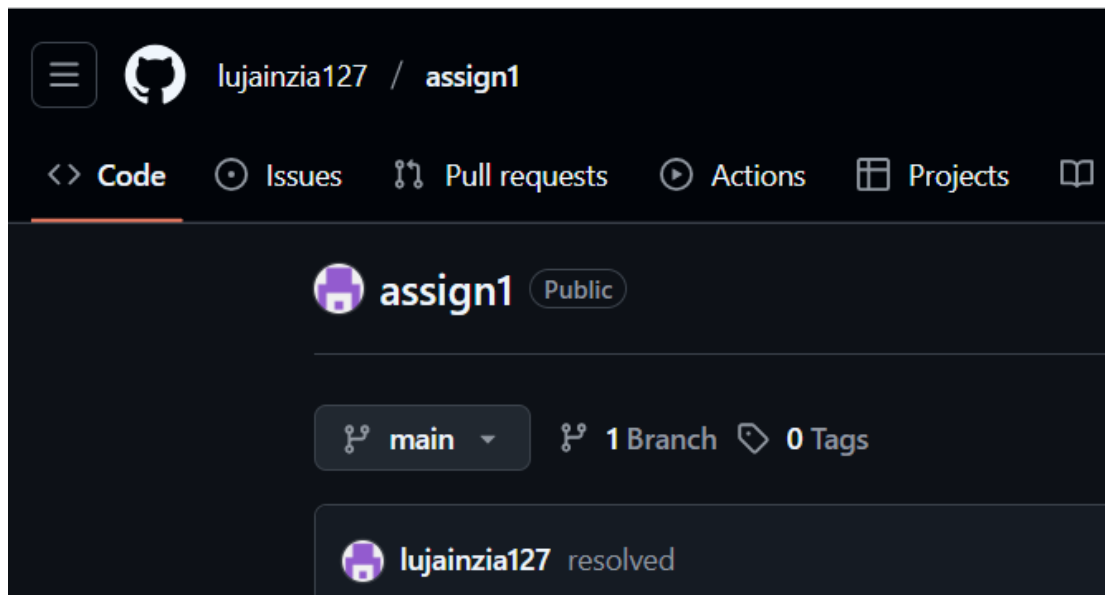
Task 2: Mirror README.md from Gitea to GitHub
1. Continue Working with Your Existing Repository:
   - You will use the same repository that you created and pushed to your Gitea server in Task 1.

2. Create GitHub Repository:
   - Create a new GitHub repository named assignment 1. (redone)

3. Add GitHub as a Second Remote:
   - Add your GitHub repository as a remote to your local repository:
      git remote add github <your_github_repo_https_url>

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

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

```
user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$ git remote -v
gitea    https://gitea.com/lujainzia127/studentlist.git (fetch)
gitea    https://gitea.com/lujainzia127/studentlist.git (push)
github   https://github.com/lujainzia127/assign1.git (fetch)
github   https://github.com/lujainzia127/assign1.git (push)
origin   https://gitea.com/lujainzia127/studentlist.git (fetch)
origin   https://gitea.com/lujainzia127/studentlist.git (push)
```

Task 3: Use Git LFS for Large Files

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

```
user@DESKTOP-6S448KE MINGW64 ~/studentlist (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.

Name	Date modified	Type	Size
README	10/18/2025 6:34 PM	MD File	1 KB
bin3.dat	10/18/2025 6:49 PM	DAT File	101,376 KB
bin1.txt	10/18/2025 6:48 PM	Text Document	101,344 KB
bin2.dat	10/18/2025 6:49 PM	DAT File	101,376 KB
.gitattributes	10/18/2025 6:51 PM	txtfile	1 KB

```
user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$ git lfs track "bin1.txt"
Tracking "bin1.txt"

user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$ git lfs track "bin2.dat"
Tracking "bin2.dat"

user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$ git lfs track "bin3.dat"
Tracking "bin3.dat"

user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$
```

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

```
user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$ git add bin1.txt.txt
warning: in the working copy of 'bin1.txt.txt', LF will be replaced by CRLF the
next time Git touches it

user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$ git add bin2.dat

user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$ git add bin3.dat

user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$ git commit -m "large files"
[main 5b3f3e1] large files
 4 files changed, 2208009 insertions(+)
 create mode 100644 .gitattributes
 create mode 100644 bin1.txt.txt
 create mode 100644 bin2.dat
 create mode 100644 bin3.dat
```

```
user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$ git push github main
Uploading LFS objects: 100% (1/1), 104 MB | 6.1 MB/s, done.
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 295.51 KiB | 548.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote: warning: See https://gh.io/lfs for more information.
remote: warning: File bin1.txt.txt is 98.97 MB; this is larger than GitHub's rec
ommended maximum file size of 50.00 MB
remote: warning: GH001: Large files detected. You may want to try Git Large File
 Storage - https://git-lfs.github.com.
To https://github.com/lujainzia127/assign1.git
   55cbe1d..5b3f3e1  main -> main
```

Task 4: Create a Portfolio/CV with GitHub Pages

1. Create a new repository for GitHub Pages:
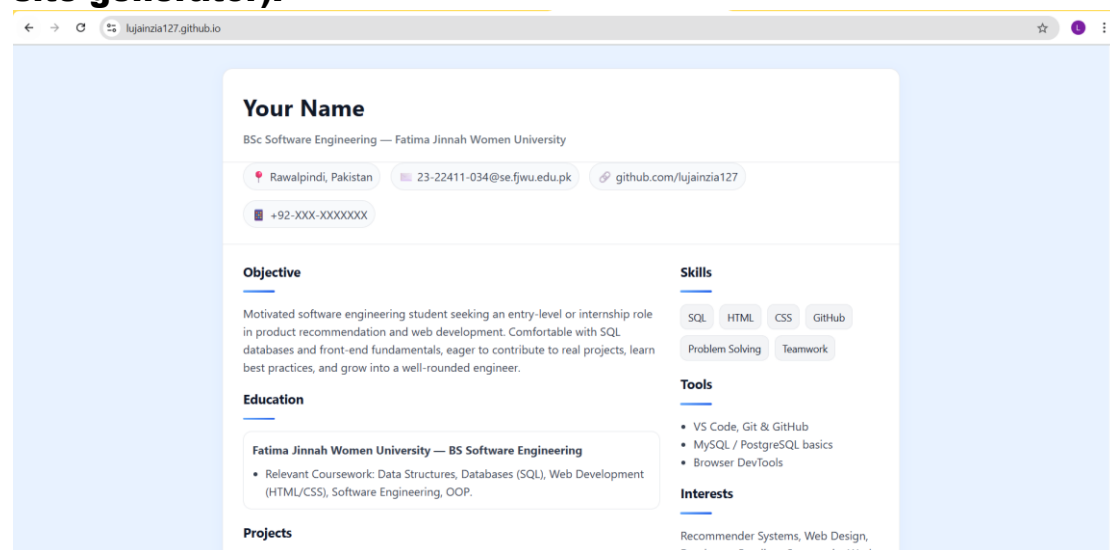   **- Create a new repository named <your-username>.github.io.**
   - Replace <your-username> with your actual GitHub username (e.g., johnsmith.github.io).
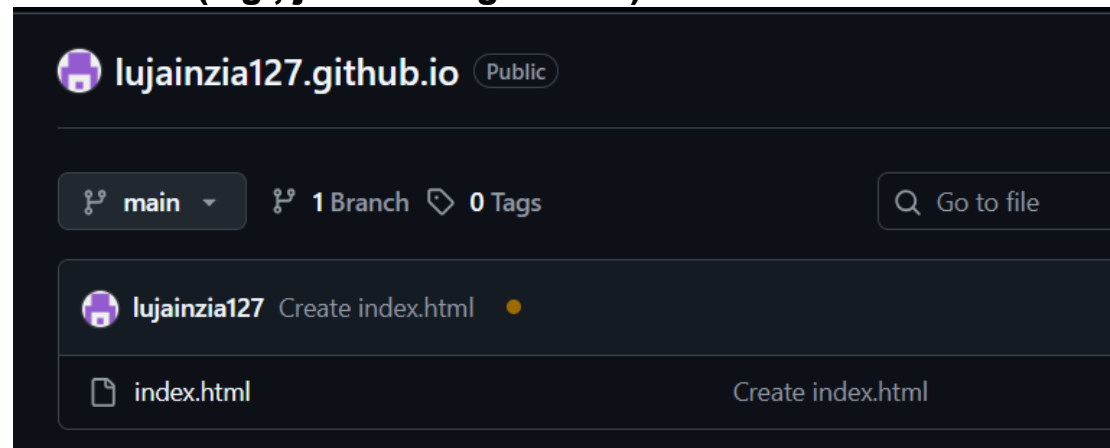
2. Design Your Portfolio/CV:
   - Create your portfolio or CV in HTML/CSS (or use a static site generator).

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.

Webpage link: **https://lujainzia127.github.io/**
Github repo link: **https://github.com/lujainzia127/assign1**

```
user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$ git remote -v
gitea    https://gitea.com/lujainzia127/studentlist.git (fetch)
gitea    https://gitea.com/lujainzia127/studentlist.git (push)
github   https://github.com/lujainzia127/assign1.git (fetch)
github   https://github.com/lujainzia127/assign1.git (push)
origin   https://gitea.com/lujainzia127/studentlist.git (fetch)
origin   https://gitea.com/lujainzia127/studentlist.git (push)

user@DESKTOP-6S448KE MINGW64 ~/studentlist (main)
$
```