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CLASS: BSE 5B

REG.NO: 058

SUBJECT: CLOUD COMPUTING

ASSIGNMENT #1:

TASK#01:

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.

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.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 2 bash - gitea-codespace
@SanaTariq205 →/workspaces/cc_sanatariq_058 (main) $ mkdir ~/gitea-codespace
cd ~/gitea-codespace
cat > docker-compose.yml <<'YAML'
version: "3"
services: ...
- USER_GID=1000
- GITEA_server_ROOT_URL=http://127.0.0.1:3000/ # initial; Codespaces will provide external HTTPS link
YAML - "22:22"000"a:/data
@SanaTariq205 →~/gitea-codespace $ docker compose up -d
WARN[0000] /home/codespace/gitea-codespace/docker-compose.yml: the attribute `version` is obsolete, it will be
ignored, please remove it to avoid potential confusion
[+] Running 8/8
✓ gitea Pulled 10.9s
✓ 9824c27679d3 Pull complete 1.4s
✓ 307c463a9ebe Pull complete 2.9s
✓ 89986d54bad9 Pull complete 3.6s
✓ e7ea2b7110b2 Pull complete 3.6s
✓ dc71ac9fe925 Pull complete 5.9s
✓ a4ebd224fde1 Pull complete 6.2s
✓ 3b7dba00267e Pull complete 6.2s
[+] Running 2/2
✓ Network gitea-codespace_default Created 0.1s
✓ Container gitea-codespace-gitea-1 Started 1.4s
@SanaTariq205 →~/gitea-codespace $ docker compose ps
WARN[0000] /home/codespace/gitea-codespace/docker-compose.yml: the attribute `version` is obsolete, it will be
ignored, please remove it to avoid potential confusion
NAME IMAGE COMMAND SERVICE CREATED STATUS
PORTS
gitea-codespace-gitea-1 gitea/gitea:latest "/usr/bin/entrypoint..." gitea 43 seconds ago Up 42 second
s 0.0.0.0:22->22/tcp, [::]:22->22/tcp, 0.0.0.0:3000->3000/tcp, [::]:3000->3000/tcp
@SanaTariq205 →~/gitea-codespace $
```

Walkthrough: Setup VS Code Web X

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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 2

Port	Forwarded Address	Running Process	Visibility	Origin
22	https://glorious-succotash-wrq7qxqwrwwf5qx5-22...	/usr/bin/docker-...	Private	Auto Forwarded
3000	https://glorious-succotash-wrq7qxqwrwwf5qx5-22...	/usr/bin/docker-...	Public	Auto Forwarded

Add Port

Issues Pull Requests Milestones Explore

New Repository

A repository contains all project files, including revision history. Already hosting one elsewhere? [Migrate repository.](#)

Owner *

cc_sanatariq_058

Some organizations may not show up in the dropdown due to a maximum repository count limit.

Repository Name *

assignment-1-gitea

Good repository names use short, memorable and unique keywords. A repository named "profile" or "profile-private" could be used to add a README.md for the user/organization profile.

Visibility

☐ Make repository private

Only the owner or the organization members if they have rights, will be able to see it.

Description

Enter short description (optional)

Template

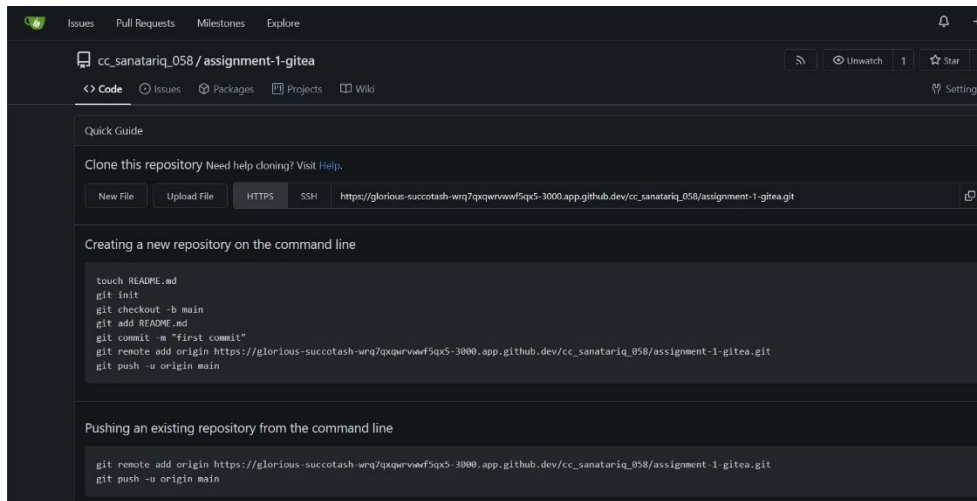
Select a template.

Issue Labels

Select an issue label set.

.gitignore

Select .gitignore templates.



TASK#02:

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.
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.

```
Sana@DESKTOP-00ECUUI MINGW64 ~
$ git clone https://sana-tariq205-cc_sanatariq-058-3000.app.github.dev/cc_sanatariq_058/assignment-1-gitea.git
Cloning into 'assignment-1-gitea'...
fatal: repository 'https://sana-tariq205-cc_sanatariq-058-3000.app.github.dev/cc_sanatariq_058/assignment-1-gitea.git/' not found

Sana@DESKTOP-00ECUUI MINGW64 ~
$ cd /workspaces/cc_sanatariq_058
bash: cd: /workspaces/cc_sanatariq_058: No such file or directory

Sana@DESKTOP-00ECUUI MINGW64 ~
$ git clone https://glorious-succotash-wrq7qxqwrwvf5qx5-3000.app.github.dev/sanatariq/assignment-1-gitea.git
Cloning into 'assignment-1-gitea'...
warning: You appear to have cloned an empty repository.

Sana@DESKTOP-00ECUUI MINGW64 ~
$ cd assignment-1-gitea

Sana@DESKTOP-00ECUUI MINGW64 ~/assignment-1-gitea (main)
$ ls
```

```

Sana@DESKTOP-00ECUUI MINGW64 ~/assignment-1-gitea (main)
$ git push github main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 700 bytes | 350.00 KiB/s, done.
Total 6 (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/SanaTariq205/assignment1.git
   948c4d5..6463e87  main -> main

Sana@DESKTOP-00ECUUI MINGW64 ~/assignment-1-gitea (main)
$ git remote -v
github  https://github.com/SanaTariq205/assignment1.git (fetch)
github  https://github.com/SanaTariq205/assignment1.git (push)
origin  https://glorious-succotash-wrq7qxqwrvmwf5qx5-3000.app.github.dev/sanatarig/assignment-1-gitea.git (fetch)
origin  https://glorious-succotash-wrq7qxqwrvmwf5qx5-3000.app.github.dev/sanatarig/assignment-1-gitea.git (push)

```

TASK#03:

Task 3: Use Git LFS for Large Files

1. Install Git LFS:

- Set up Git LFS in your local repository.

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.

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.

```

@SanaTariq205 →/workspaces/cc_sanatariq_058 (main) $ git lfs install
Updated Git hooks.
Git LFS initialized.
@SanaTariq205 →/workspaces/cc_sanatariq_058 (main) $ fallocation -l 150M video1.mp4
fallocation -l 120M dataset.zip
fallocation -l 130M presentation.pptx
@SanaTariq205 →/workspaces/cc_sanatariq_058 (main) $ ls -lh
total 401M
drwxrwxrwx+ 2 codespace root      4.0K Oct 13 13:14 Lab1
drwxrwxrwx+ 2 codespace root      4.0K Oct 13 13:14 Lab2
-rw-rw-rw-  1 codespace codespace 120M Oct 15 14:51 dataset.zip
-rw-rw-rw-  1 codespace codespace 130M Oct 15 14:51 presentation.pptx
-rw-rw-rw-  1 codespace codespace 150M Oct 15 14:51 video1.mp4
@SanaTariq205 →/workspaces/cc_sanatariq_058 (main) $ git lfs track "*.mp4"
git lfs track "*.zip"
git lfs track "*.pptx"
git add .gitattributes
git add video1.mp4 dataset.zip presentation.pptx
git commit -m "Added dummy large files tracked with Git LFS"
git push github main
Tracking "*.mp4"
Tracking "*.zip"
Tracking "*.pptx"
[main 779fe2f] Added dummy large files tracked with Git LFS
4 files changed, 12 insertions(+)
create mode 100644 .gitattributes
create mode 100644 dataset.zip
create mode 100644 presentation.pptx
create mode 100644 video1.mp4

```

SanaTariq205 / assignment1

Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

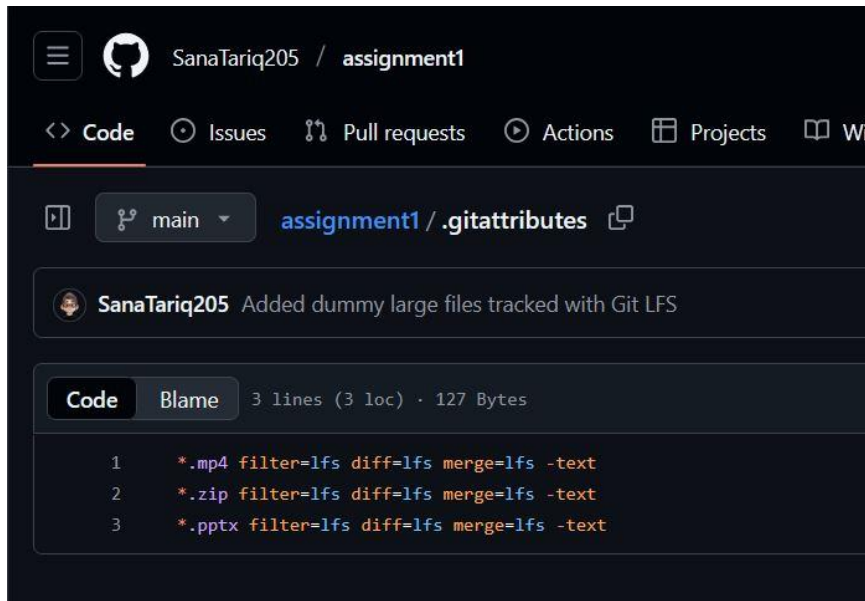
main

assignment1 /

SanaTariq205

Added dummy large files tracked with Git LFS

Name	Last commit message
Lab1	Update README.md
Lab2	Add files via upload
.gitattributes	Added dummy large files tracked with Git LFS
dataset.zip	Added dummy large files tracked with Git LFS
presentation.pptx	Added dummy large files tracked with Git LFS
video1.mp4	Added dummy large files tracked with Git LFS



TASK#04:

Task 4: Create a Portfolio/CV with GitHub Pages

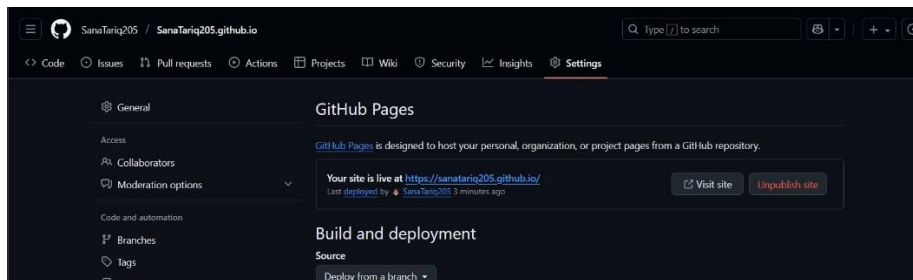
1. Create a new repository for GitHub Pages:
 - Create a new repository named `<your-username>.github.io`.
 - Replace `<your-username>` with your actual GitHub username (e.g., `johnsmith.github.io`).
2. Design Your Portfolio/CV:
 - Create your portfolio or CV in HTML/CSS (or use a static site generator).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

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
@SanaTariq205 →/workspaces/cc_sanatariq_058 (main) $ git clone https://github.com/SanaTariq205/SanaTariq205.github.io.git
cd SanaTariq205.github.io
Cloning into 'SanaTariq205.github.io'...
warning: You appear to have cloned an empty repository.
@SanaTariq205 →/workspaces/cc_sanatariq_058/SanaTariq205.github.io (main) $ touch index.html
@SanaTariq205 →/workspaces/cc_sanatariq_058/SanaTariq205.github.io (main) $ code index.html
@SanaTariq205 →/workspaces/cc_sanatariq_058/SanaTariq205.github.io (main) $ git add index.html
git commit -m "Added portfolio index page"
git push origin main
[main (root-commit) 14b0c18] Added portfolio index page
1 file changed, 37 insertions(+)
create mode 100644 index.html
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 631 bytes | 631.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

```

```
index.html X
SanaTariq205.github.io > index.html > ...
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="UTF-8">
5 <title>Sana Tariq - Portfolio</title>
6 <style>
7   body {
8     font-family: Arial, sans-serif;
9     background-color: #fefeefe;
10    text-align: center;
11    color: #333;
12    margin-top: 80px;
13  }
14  h1 {
15    color: #007acc;
16    font-size: 2em;
17  }
18  p {
19    font-size: 18px;
20    line-height: 1.5;
21  }
22  a {
23    color: #007acc;
24    text-decoration: none;
25  }
26  a:hover {
27    text-decoration: underline;
```



LINK:

<https://github.com/SanaTariq205/assignment1>

<https://sanatariq205.github.io/>

