

FATIMA JINNAH WOMEN UNIVERSITY

Department of Software Engineering



ASSIGNMENT#01

Report

SUBJECT: CLOUD COMPUTING

SUBMITTED TO: SIR WAQAS SALEEM

SUBMITTED BY: UMBER QASIM

REGISTRATION NO: 2023-BSE-066

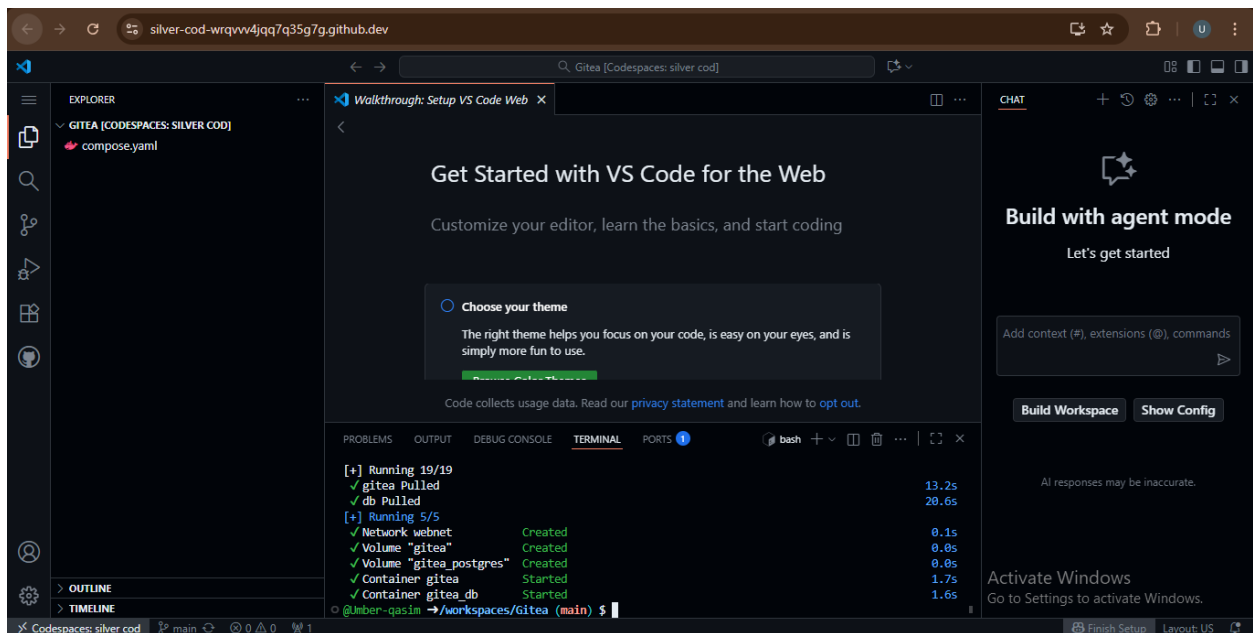
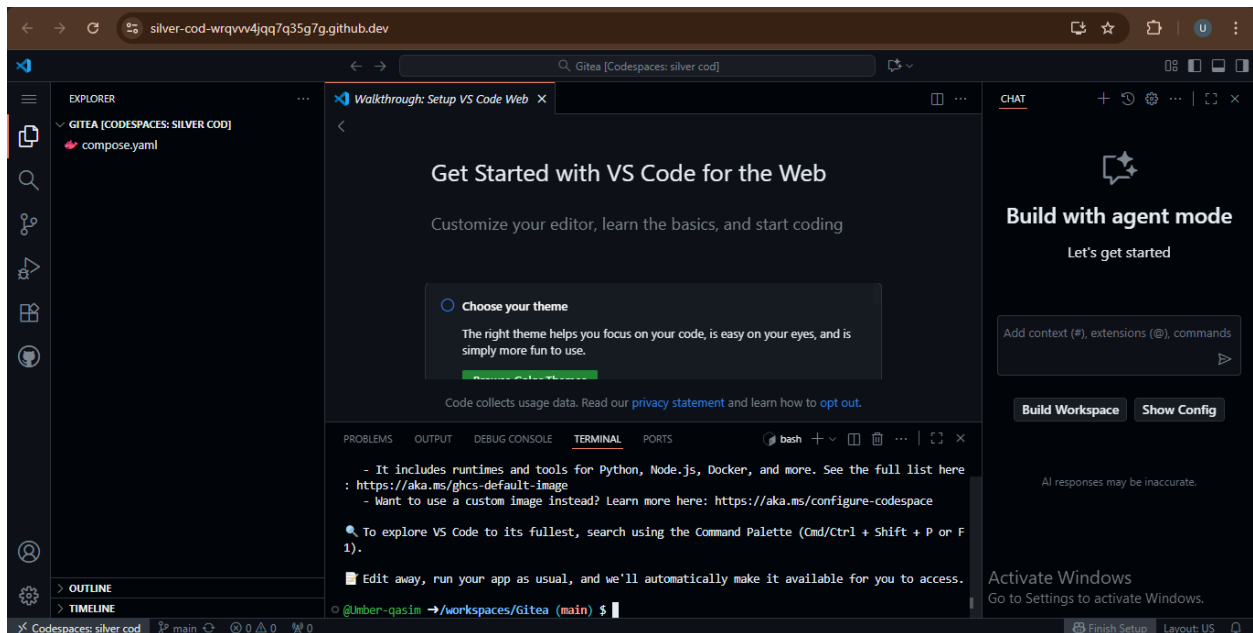
CLASS: BSSE V-B

Task#01:

Run Gitea in Codespace and Create an Initial Repo.

Answer:

1. Set up Gitea:



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.

Activate Windows
Go to Settings to activate Windows.

Optional Settings

☐ Enable Update Checker
Checks for new version releases periodically by connecting to gitea.io.

► Email Settings

► Server and Third-Party Service Settings

▼ Administrator Account Settings

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

Administrator Username admin

Email Address 23-22411-066@se.fjwu.edu.pk

Password

Confirm Password

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

Install Gitea

Activate Windows
Go to Settings to activate Windows.

2. Create a Repository:

silver-cod-wrqvvv4jq7q35g7g-3000.app.github.dev/admin/Assignment1

Issues Pull Requests Milestones Explore

admin / Assignment1

<> Code Issues Packages Projects Wiki Settings

Quick Guide

Clone this repository Need help cloning? Visit [Help](#).

New File Upload File HTTPS SSH <https://silver-cod-wrqvvv4jq7q35g7g-3000.app.github.dev/admin/Assignment1.git>

Creating a new repository on the command line

```
touch README.md
git init
git checkout -b main
git add README.md
git commit -m "first commit"
git remote add origin https://silver-cod-wrqvvv4jq7q35g7g-3000.app.github.dev/admin/Assignment1.git
git push -u origin main
```

Pushing an existing repository from the command line

Activate Windows
Go to Settings to activate Windows.

silver-cod-wrqvvv4jq7q35g7g-3000.app.github.dev/admin/Assignment1/src/branch/main/README.md

Issues Pull Requests Milestones Explore

admin / Assignment1

<> Code Issues Pull Requests Actions Packages Projects Releases Wiki Activity Settings

Files main Assignment1 / README.md

README.md

admin 7905864311 Add README.md now

38 B

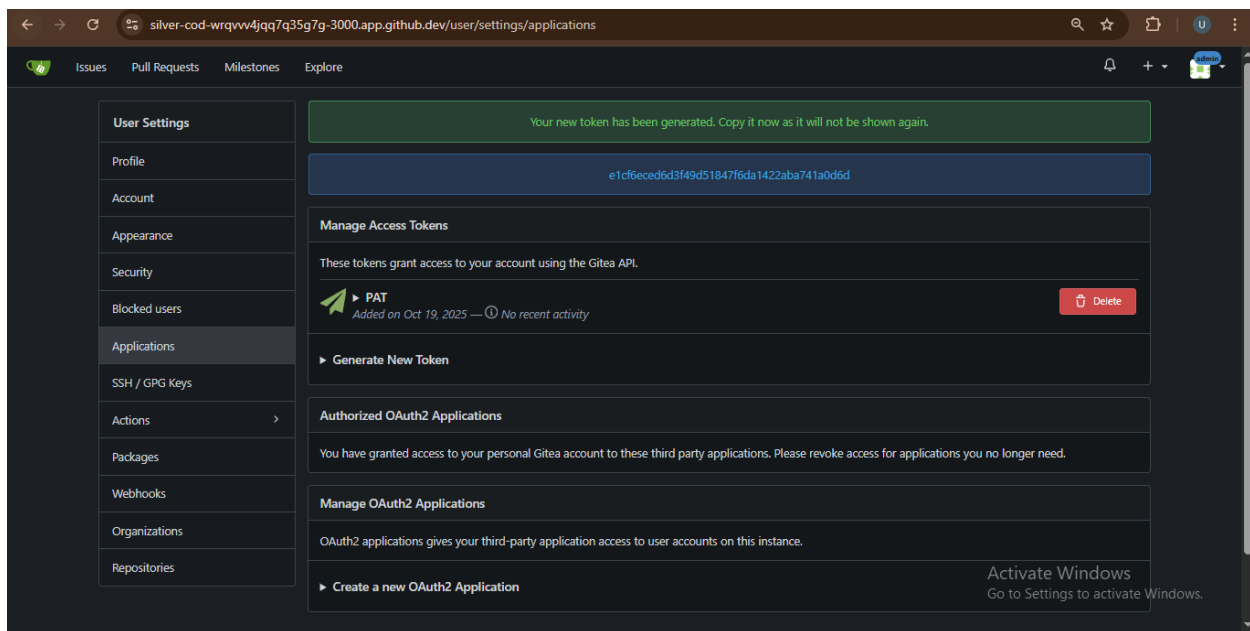
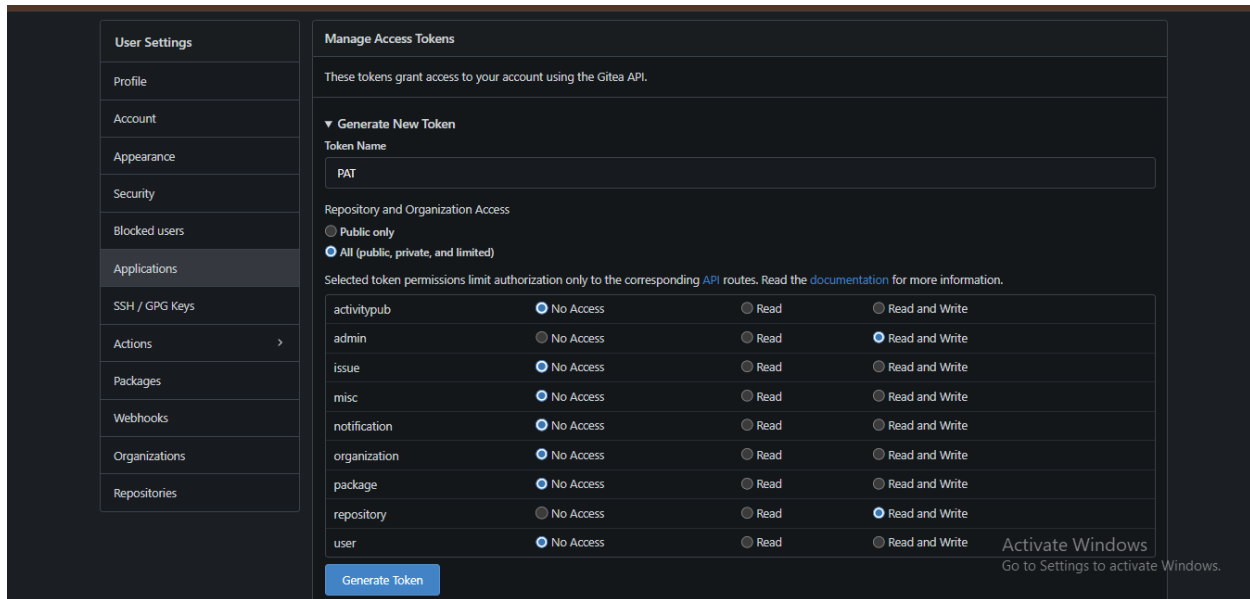
Raw Permalink Blame History

Name: Umber Qasim Reg No# 2023-BSE-066

Activate Windows
Go to Settings to activate Windows.

Powered by Gitea Version: 1.24.6 Page: 37ms Template: 9ms

English Licenses API



3. Add Remote Repo:

MINGW64:/c/Users/HP/Assignment1

```
HP@DESKTOP-BGNOK42 MINGW64 ~/Assignment1
$ git init
Initialized empty Git repository in C:/Users/HP/Assignment1/.git/

HP@DESKTOP-BGNOK42 MINGW64 ~/Assignment1 (master)
$ git remote add gitea https://admin:e1cf6eced6d3f49d51847f6da1422aba741a0d6d@silver-cod-wrqvvv4jqq7q35g7g-3000.app.github.dev/admin/Assignment1.git
```

```

HP@DESKTOP-BGN0K42 MINGW64 ~/Assignment1 (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), 240 bytes | 6.00 KiB/s, done.
From https://silver-cod-wrqvvv4jq7q35g7g-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

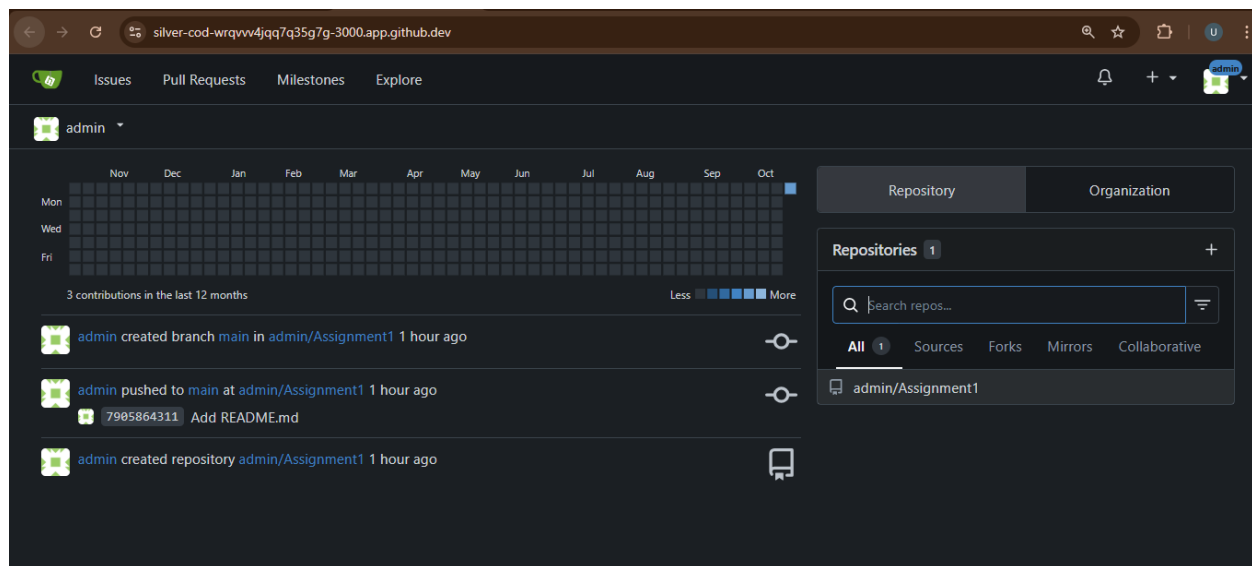
HP@DESKTOP-BGN0K42 MINGW64 ~/Assignment1 (master)
$ git branch -M main

HP@DESKTOP-BGN0K42 MINGW64 ~/Assignment1 (main)
$ git pull gitea main
From https://silver-cod-wrqvvv4jq7q35g7g-3000.app.github.dev/admin/Assignment1
* branch            main       -> FETCH_HEAD

HP@DESKTOP-BGN0K42 MINGW64 ~/Assignment1 (main)
$ ls
README.md

HP@DESKTOP-BGN0K42 MINGW64 ~/Assignment1 (main)
$ cat README.md
Name: Umber Qasim
Reg No# 2023-BSE-066

```

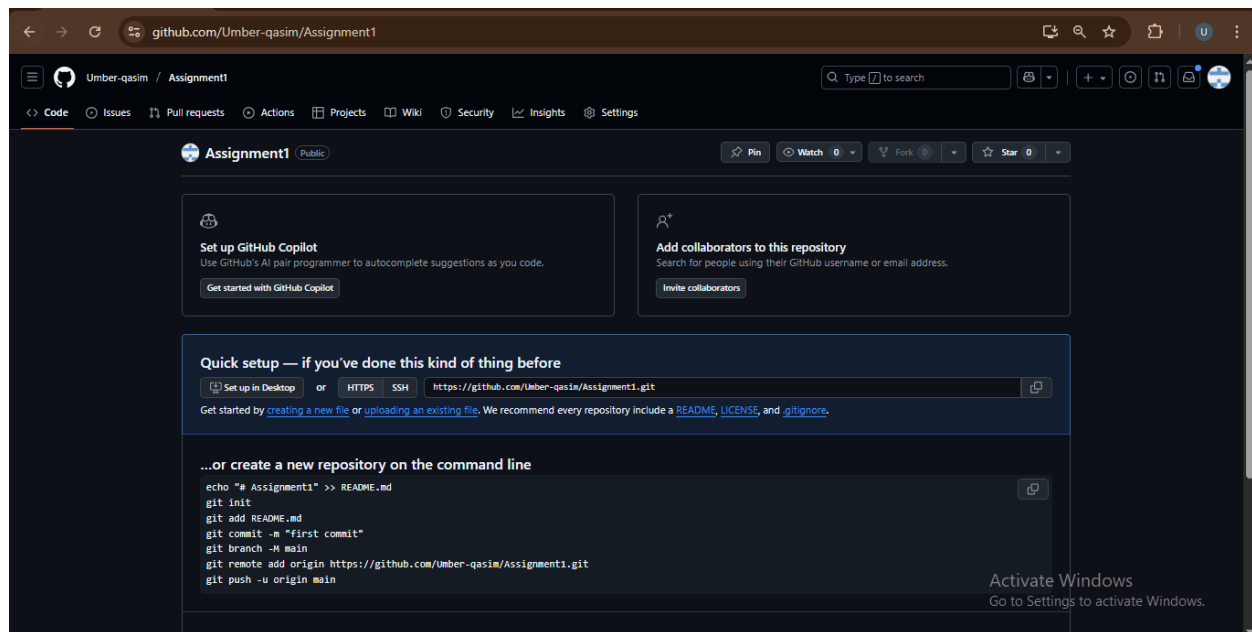


Task#02:

Mirror README.md from Gitea to GitHub.

Answer:

1. Create GitHub Repository:



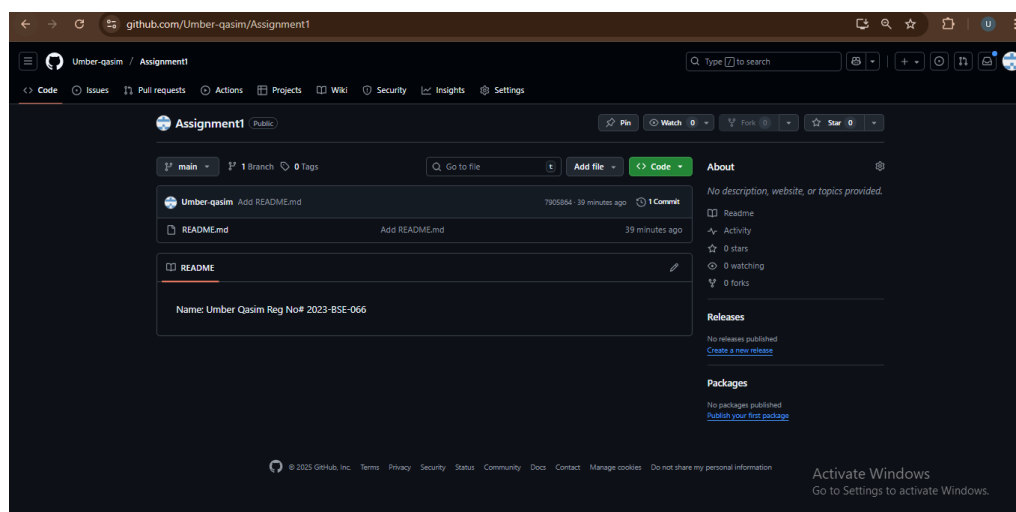
2. Add GitHub as a Second Remote then Push the README.md File to GitHub and Verify Remotes:

```

HP@DESKTOP-BGNOK42 MINGW64 ~/Assignment1 (main)
$ git remote add github https://github.com/Umber-qasim/Assignment1.git

HP@DESKTOP-BGNOK42 MINGW64 ~/Assignment1 (main)
$ git push -u github main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 260 bytes | 130.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Umber-qasim/Assignment1.git
 * [new branch]      main -> main
branch 'main' set up to track 'github/main'.

```



```

github https://github.com/Umber-qasim/Assignment1.git (fetch)
github https://github.com/Umber-qasim/Assignment1.git (push)

```

Task#03:

Use Git LFS for Large Files.

Answer:

1. Install Git LFS:

```
HP@DESKTOP-BGNOK42 MINGW64 ~/Assignment1 (main)
$ git lfs install
Updated Git hooks.
Git LFS initialized.

HP@DESKTOP-BGNOK42 MINGW64 ~/Assignment1 (main)
$ fsutil file createnew bigfile1.zip 136314880
File C:\Users\HP\Assignment1\bigfile1.zip is created

HP@DESKTOP-BGNOK42 MINGW64 ~/Assignment1 (main)
$ fsutil file createnew bigfile2.zip 136314880
File C:\Users\HP\Assignment1\bigfile2.zip is created

HP@DESKTOP-BGNOK42 MINGW64 ~/Assignment1 (main)
$ fsutil file createnew bigfile3.zip 136314880
File C:\Users\HP\Assignment1\bigfile3.zip is created
```

2. Add Large Files:

```
HP@DESKTOP-BGNOK42 MINGW64 ~/Assignment1 (main)
$ git lfs track "*.zip"
Tracking "*.zip"

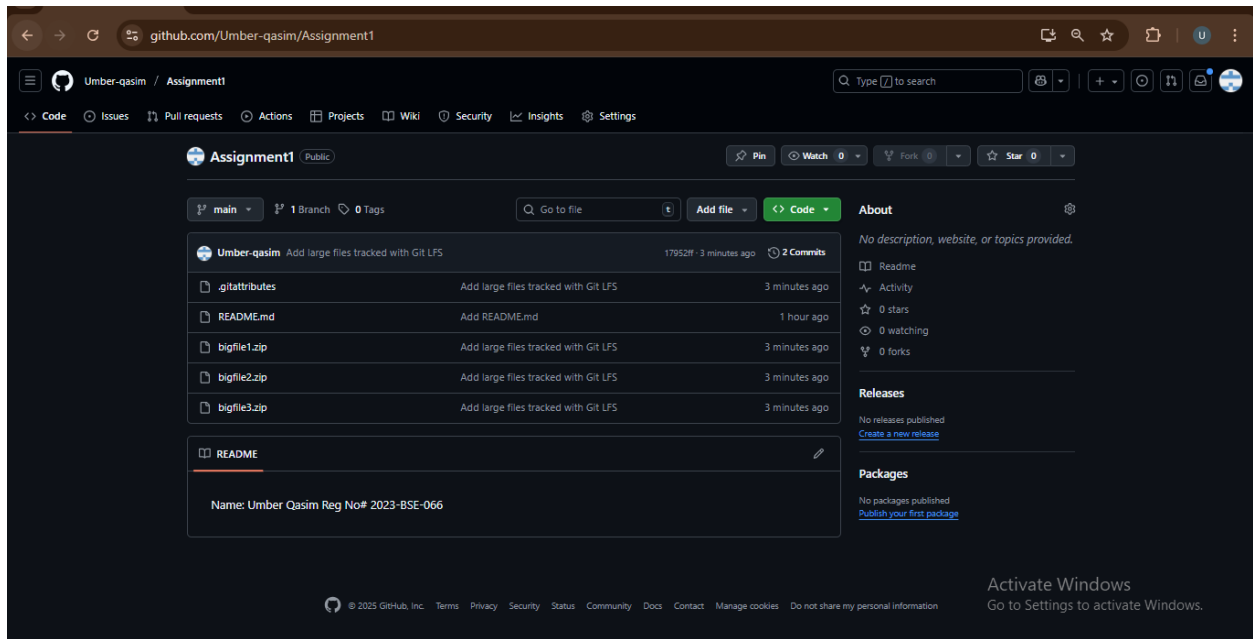
HP@DESKTOP-BGNOK42 MINGW64 ~/Assignment1 (main)
$ git add .gitattributes

HP@DESKTOP-BGNOK42 MINGW64 ~/Assignment1 (main)
$ git add bigfile1.zip bigfile2.zip bigfile3.zip

HP@DESKTOP-BGNOK42 MINGW64 ~/Assignment1 (main)
$ git commit -m "Add large files tracked with Git LFS"
[main 17952ff] Add large files tracked 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

HP@DESKTOP-BGNOK42 MINGW64 ~/Assignment1 (main)
$ git push
Uploading LFS objects: 100% (1/1), 136 MB | 1.5 MB/s, done.
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 512 bytes | 256.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Umber-qasim/Assignment1.git
 7905864..17952ff main -> main
```

3. Reference in Assignment Repo:

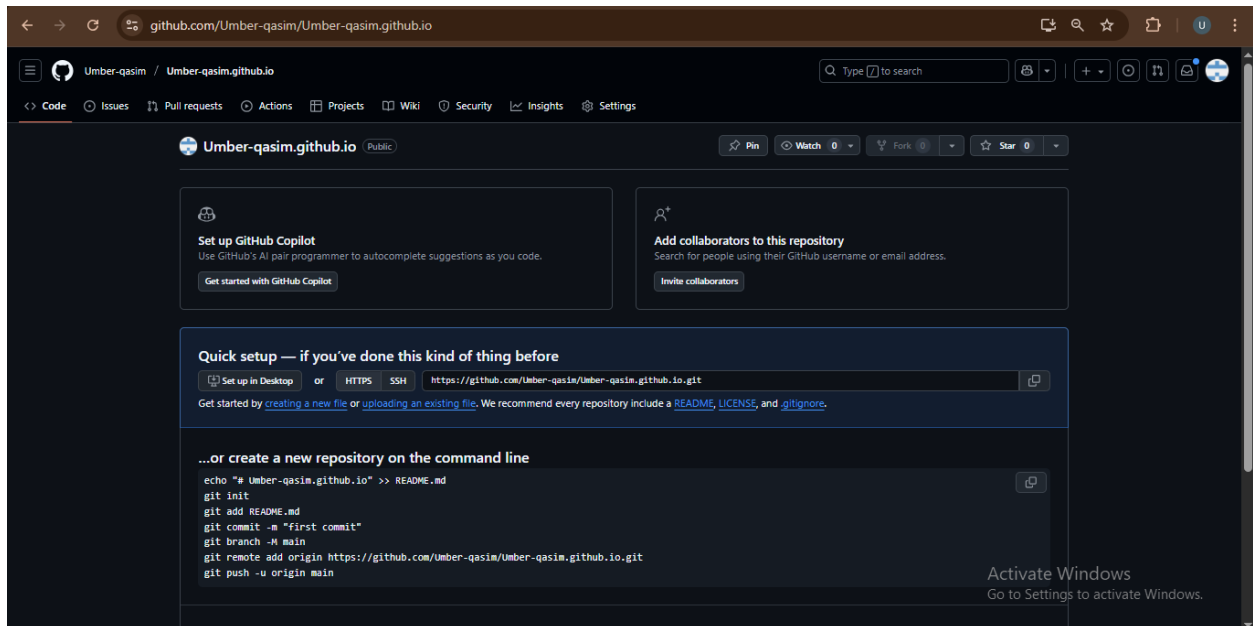


Task#04:

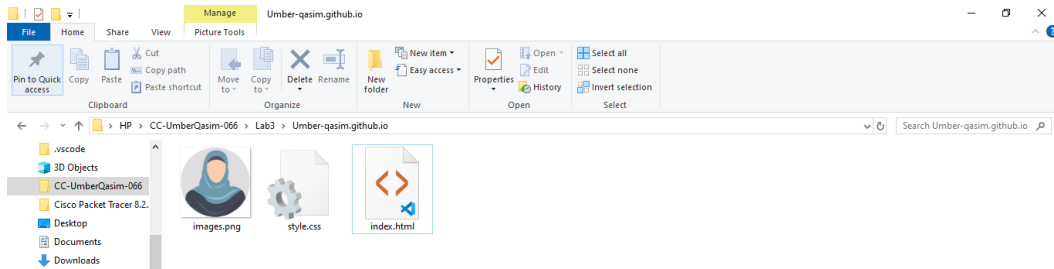
Create Portfolio/CV with GitHub Pages.

Answer:

1. Create a new repository for GitHub Pages:



2. Design Your Portfolio/CV:



3. Publish with GitHub Pages:

MINGW64: c:/Users/HP/CC-UmberQasim-066/Lab3/Umber-qasim.github.io

```
HP@DESKTOP-BGNOK42 MINGW64 ~
$ cd "C:\Users\HP\CC-UmberQasim-066\Lab3\Umber-qasim.github.io"

HP@DESKTOP-BGNOK42 MINGW64 ~/CC-UmberQasim-066/Lab3/Umber-qasim.github.io (test-force)
$ ls
images.png  index.html  style.css

HP@DESKTOP-BGNOK42 MINGW64 ~/CC-UmberQasim-066/Lab3/Umber-qasim.github.io (test-force)
$ git init
Initialized empty Git repository in C:/Users/HP/CC-UmberQasim-066/Lab3/Umber-qasim.github.io/.git/

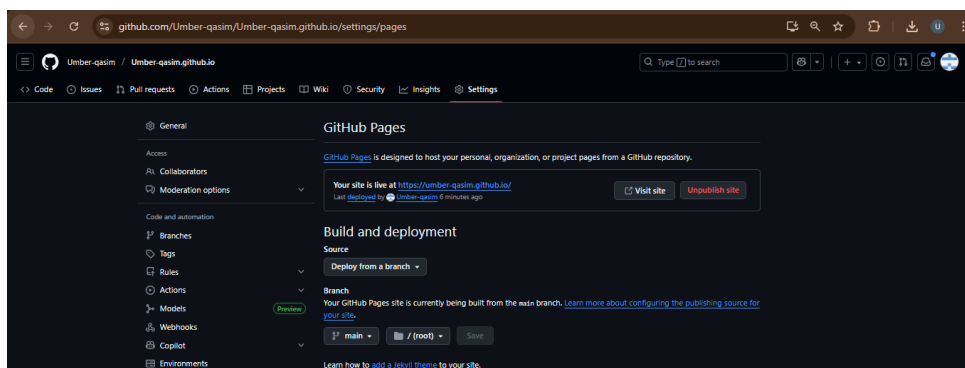
HP@DESKTOP-BGNOK42 MINGW64 ~/CC-UmberQasim-066/Lab3/Umber-qasim.github.io (master)
$ git branch -M main

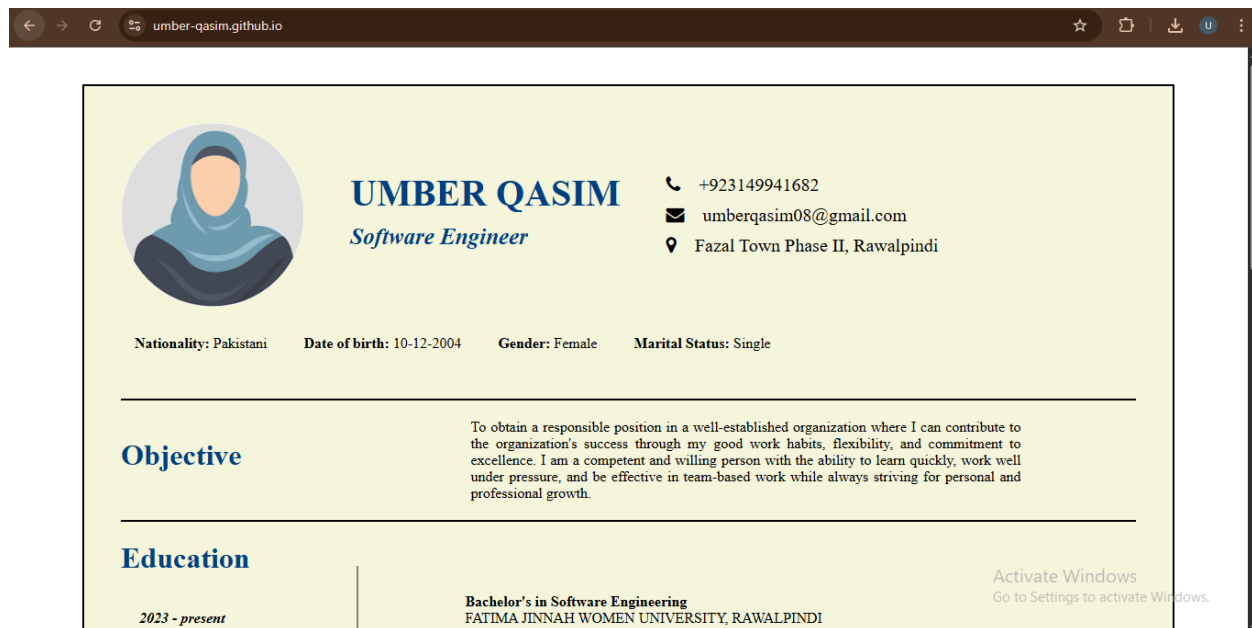
HP@DESKTOP-BGNOK42 MINGW64 ~/CC-UmberQasim-066/Lab3/Umber-qasim.github.io (main)
$ git remote add origin https://github.com/Umber-qasim/Umber-qasim.github.io.git

HP@DESKTOP-BGNOK42 MINGW64 ~/CC-UmberQasim-066/Lab3/Umber-qasim.github.io (main)
$ git add .
warning: in the working copy of 'style.css', LF will be replaced by CRLF the next time G
it touches it

HP@DESKTOP-BGNOK42 MINGW64 ~/CC-UmberQasim-066/Lab3/Umber-qasim.github.io (main)
$ git commit -m "Add portfolio site for GitHub Pages"
[main (root-commit) 120371e] Add portfolio site for GitHub Pages
3 files changed, 299 insertions(+)
create mode 100644 images.png
create mode 100644 index.html
create mode 100644 style.css

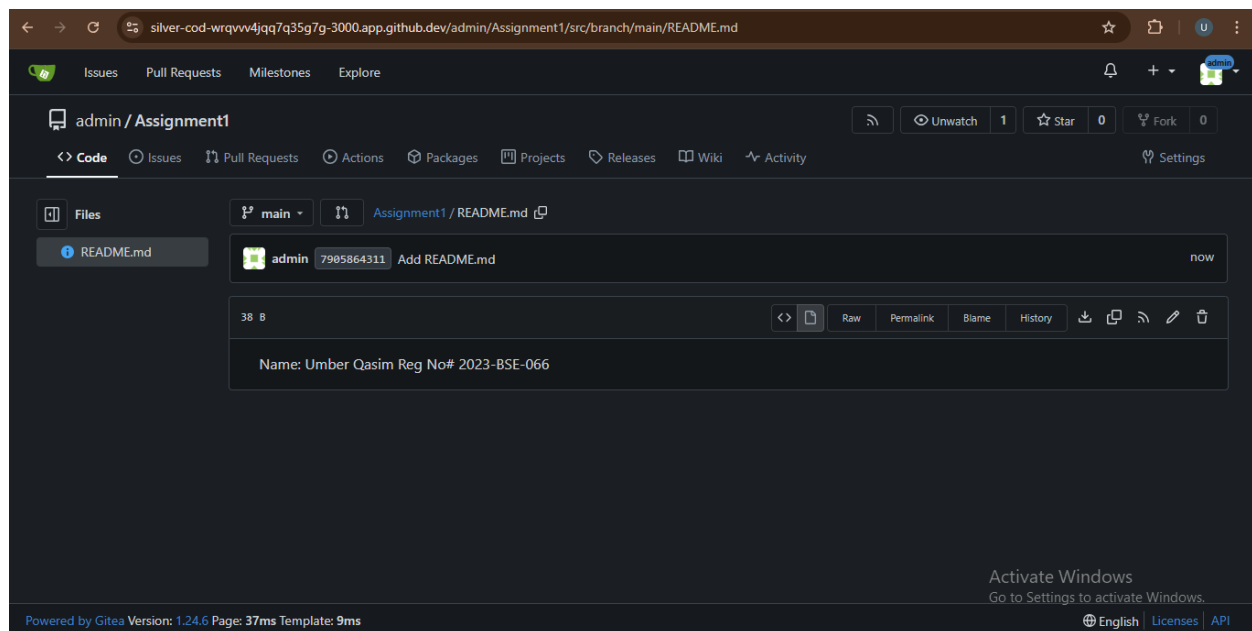
HP@DESKTOP-BGNOK42 MINGW64 ~/CC-UmberQasim-066/Lab3/Umber-qasim.github.io (main)
$ git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 7.96 KiB | 2.65 MiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Umber-qasim/Umber-qasim.github.io.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```





Submission Checklist:

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



GitHub assignment1 repo link With README and large files

<https://github.com/Umbur-qasim/Assignment1>

Screenshot or output of git remote -v showing both remotes

```
HP@DESKTOP-BGNOK42 MINGW64 ~/Assignment1 (main)
$ git remote -v
gitea  https://admin:e1cf6eced6d3f49d51847f6da1422aba741a0d6d@silver-cod-wrqvvv4jq7q35g7g-3000.app.github.dev/admin/Assignment1.git (fetch)
gitea  https://admin:e1cf6eced6d3f49d51847f6da1422aba741a0d6d@silver-cod-wrqvvv4jq7q35g7g-3000.app.github.dev/admin/Assignment1.git (push)
github https://github.com/Umber-qasim/Assignment1.git (fetch)
github https://github.com/Umber-qasim/Assignment1.git (push)
```

GitHub Pages link to your CV/portfolio

<https://umber-qasim.github.io/>