

Experiment -2.3

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Branch: CSE-DevOps

Semester: 4th

Subject Name: Git and Hub

UID: 22BDO10038

Section/Group: 22BCD-1/A

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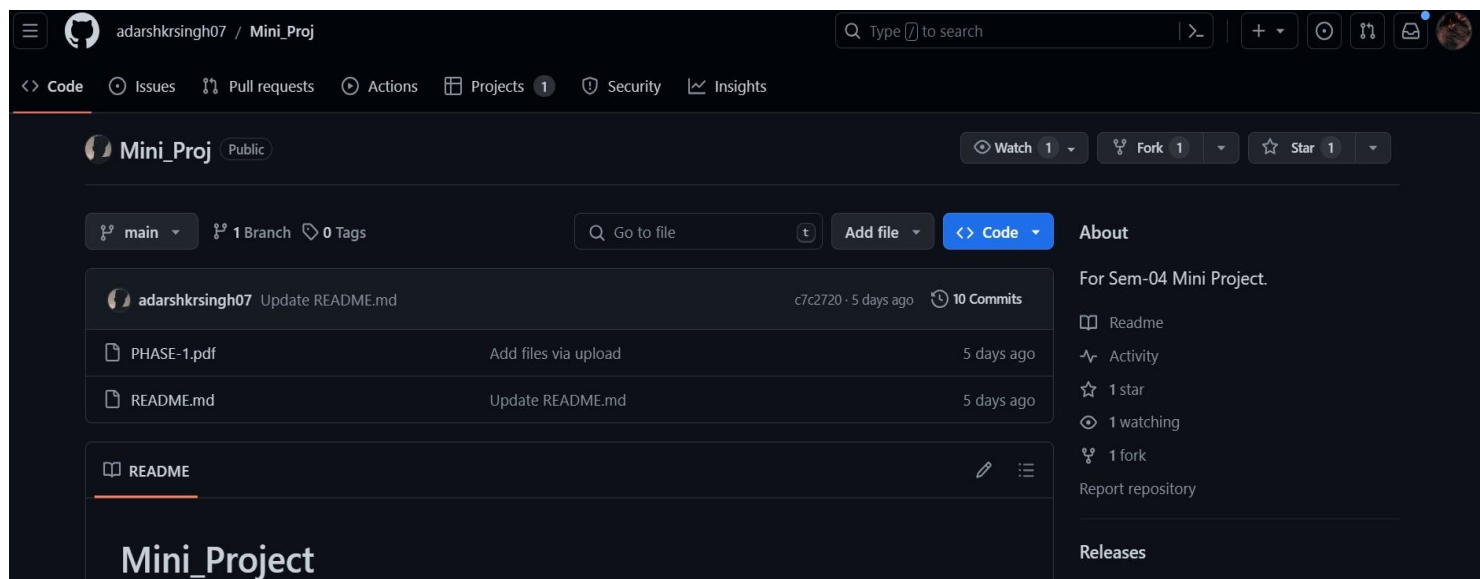
Subject Code: 22CSH-293

1. **Aim/Overview of the practical:** Creation of forks on Github.

2. **Software Used:** Git Bash, GitHub.

3. **Steps for experiment/practical:**

- ❖ Click on the search bar of your profile and search for the repository that you want to fork i.e **adarshkrsingh07/Mini_Proj**
- ❖ Click on the **fork** icon.



- ❖ You can select the **owner** and **repository** name as per your choice, add some **description** and click on **create fork**.

Create a new fork

A *fork* is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project. [View existing forks.](#)

Required fields are marked with an asterisk (*).

Owner * ayush2442 / Repository name * Mini_Proj
Mini_Proj is available.

By default, forks are named the same as their upstream repository. You can customize the name to distinguish it further.

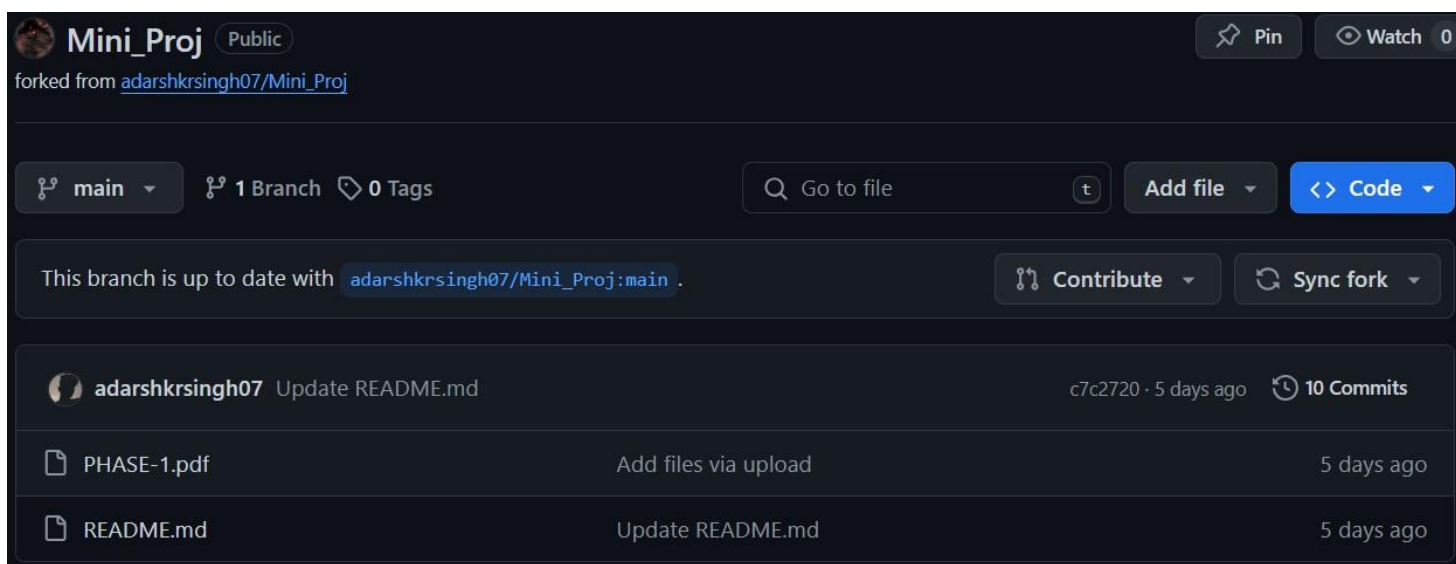
Description (optional)
 For Sem-04 Mini Project - Forked copy of Mini_Project

☒ Copy the main branch only
 Contribute back to adarshkrsingh07/Mini_Proj by adding your own branch. [Learn more.](#)

i You are creating a fork in your personal account.

[Create fork](#)

- ❖ Now, you have forked the repository and you have the ownership of that repository under your name in your account.



The screenshot shows a GitHub repository page for 'Mini_Proj', which is a fork of 'adarshkrsingh07/Mini_Proj'. The repository is public and has 1 branch (main) and 0 tags. The main branch is up to date with the upstream repository. The repository contains two files: 'PHASE-1.pdf' and 'README.md', both updated 5 days ago. The repository has 10 commits and a commit hash of c7c2720.

- ❖ Now, clone the repo in your local system or environment using **git clone**.
- ❖ Create a file in the repo, i.e. **ATM.txt**, add it to the staging area using **git add** and then commit the changes using **git commit**.

- ❖ Push the changes to the **remote** branch from the local environment.

```
Ayush Pandey@Ayush MINGW64 /d/Git
$ git clone https://github.com/ayush2442/Mini_Proj.git
Cloning into 'Mini_Proj'...
remote: Enumerating objects: 27, done.
remote: Counting objects: 100% (27/27), done.
remote: Compressing objects: 100% (25/25), done.
remote: Total 27 (delta 3), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (27/27), 2.18 MiB | 245.00 KiB/s, done.
Resolving deltas: 100% (3/3), done.
```

```
Ayush Pandey@Ayush MINGW64 /d/Git
$ cd Mini_Proj

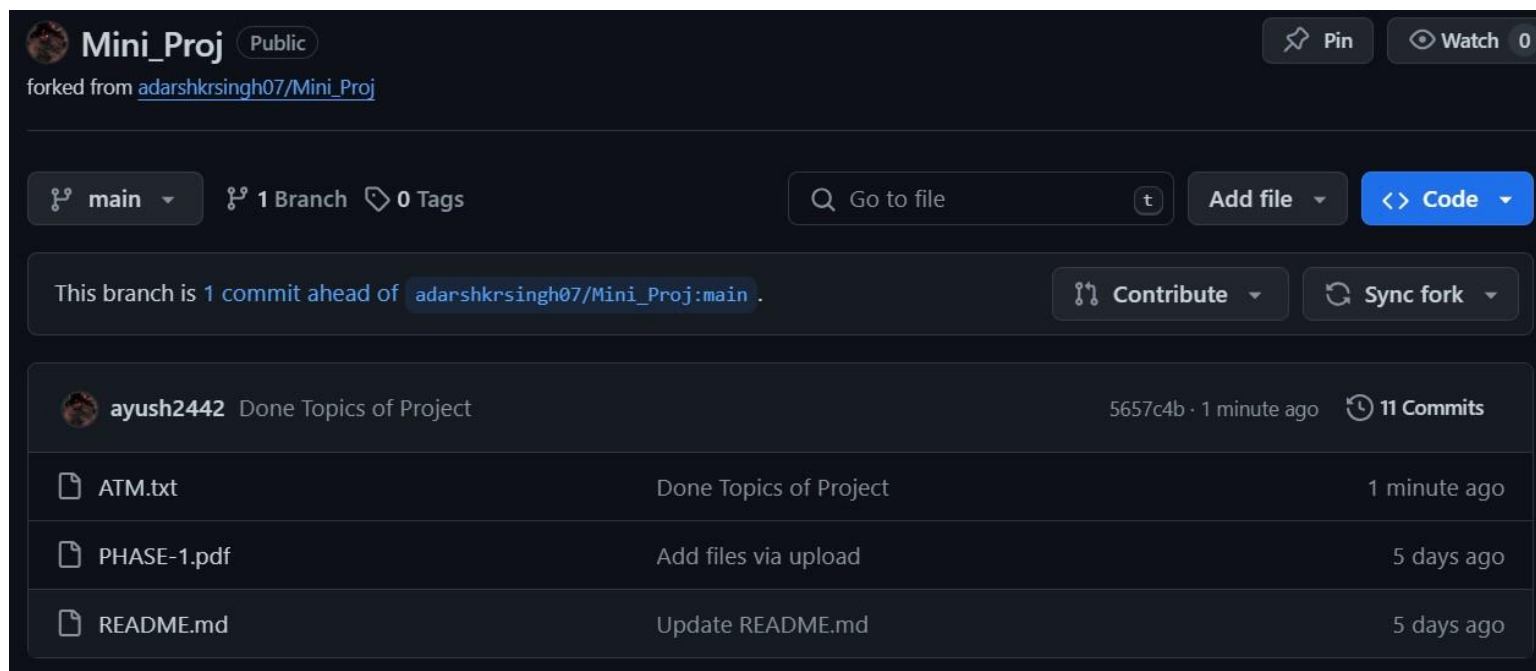
Ayush Pandey@Ayush MINGW64 /d/Git/Mini_Proj (main)
$ vi ATM.txt
```

```
Ayush Pandey@Ayush MINGW64 /d/Git/Mini_Proj (main)
$ git add ATM.txt

Ayush Pandey@Ayush MINGW64 /d/Git/Mini_Proj (main)
$ git commit -m "Done Topics of Project"
[main 5657c4b] Done Topics of Project
1 file changed, 3 insertions(+)
create mode 100644 ATM.txt

Ayush Pandey@Ayush MINGW64 /d/Git/Mini_Proj (main)
$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 377 bytes | 377.00 KiB/s, done
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/ayush2442/Mini_Proj.git
c7c2720..5657c4b  main -> main
```

- ❖ You can now view the file in the remote repo.



The screenshot shows a GitHub repository interface for 'Mini_Proj'. It is a public repository forked from 'adarshkrsingh07/Mini_Proj'. The interface shows the 'main' branch with 1 branch and 0 tags. A search bar 'Go to file' is present. Below the branch information, it states 'This branch is 1 commit ahead of adarshkrsingh07/Mini_Proj:main'. There are buttons for 'Contribute' and 'Sync fork'. The commit history shows three commits by user 'ayush2442': 'Done Topics of Project' (1 minute ago), 'Add files via upload' (5 days ago), and 'Update README.md' (5 days ago). The files listed are 'ATM.txt', 'PHASE-1.pdf', and 'README.md'.

4. Result/Output/Writing Summary:

In this experiment, we have forked a github repo and have claimed a local ownership under our account, and added a file in it.

Learning outcomes (What I have learnt):

1. Learnt how to create a branch.
2. Learnt how to clone a remote repo to our local system.
3. Learnt how to create a pull request and handle their merging.
4. Learnt to merge two branches.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			