

# **PRODUCT BASED TRAINING**

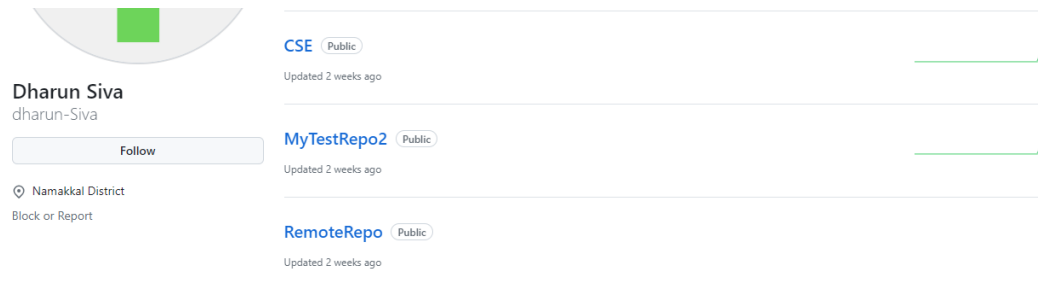
## **EXERCISE 3**

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**DEPT** : BE CSE

## **1.First, one person in the group should create a public repository using their GitHub account.**



## **2.This same person should then follow the instructions from GitHub to add a remote, and then push their repository. Do not forget the –u flag, as suggested by GitHub!**

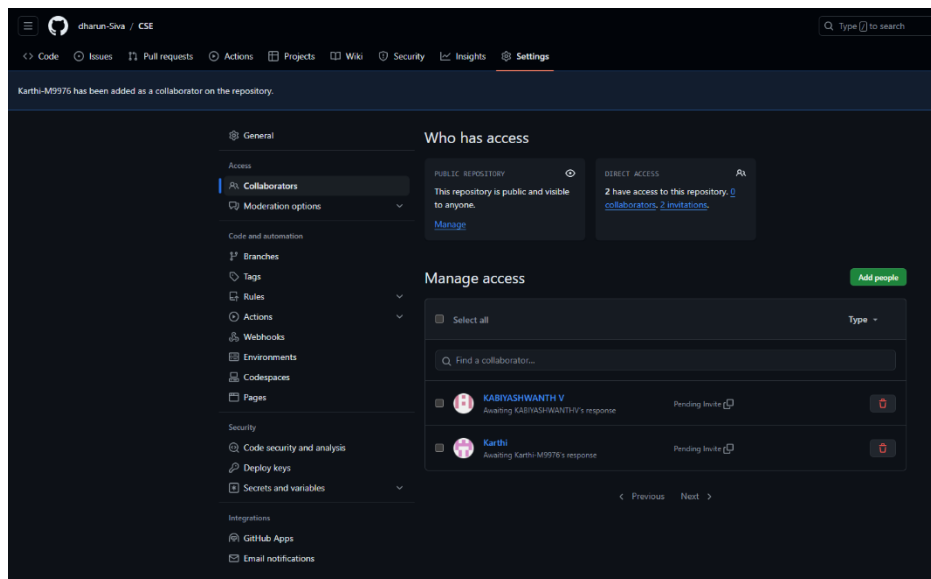
```
Git CMD
D:\73772114128\cse\local>git branch
D:\73772114128\cse\local>git status
On branch main

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        cse.txt

nothing added to commit but untracked files present (use "git add" to track)
D:\73772114128\cse\local>git add cse.txt
D:\73772114128\cse\local>git commit -m"Dharun Added"
[main (root-commit) 1ald27c] Dharun Added
 1 file changed, 1 insertion(+)
 create mode 100644 cse.txt
D:\73772114128\cse\local>git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 222 bytes | 222.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/dharun-Siva/CSE.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

**3.All of the other members of the group should then be added as collaborators, so they can commit to the repository also.**



**4.Next, everyone else in the group should clone the repository from GitHub. Verify that the context of the repository is what is expected.**

```
D:\73772114150\csekabi>git clone https://github.com/dharun-Siva/CSE.git
Cloning into 'CSE'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
```

**5.One of the group members who just cloned should now make a local commit, then push it. Everyone should verify that when they pull, that commit is added to their local repository**

```
D:\73772114150\csekabi\CSE>git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   cse.txt

no changes added to commit (use "git add" and/or "git commit -a")
```

```
D:\73772114150\csekabi\CSE>git add cse.txt
```

```
D:\73772114150\csekabi\CSE>git commit -m "Kabi Added"
[main 82a7c51] Kabi Added
1 file changed, 2 insertions(+), 1 deletion(-)
```

```
D:\73772114150\csekabi\CSE>git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 281 bytes | 281.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/dharun-Siva/CSE.git
    1ald27c..82a7c51  main -> main
branch 'main' set up to track 'origin/main'.
```

**6.Look at each other's git log output. Notice how the SHA-1 is the same for a given commit across every copy of the repository**

```
D:\73772114150\csekabi\CSE>git log
commit 82a7c51447419a418fb5e2751fafe2bc685cc0ec (HEAD -> main, origin/main, origin/HEAD)
Author: KABIYASHWANTHV <kabiyashwanthkabi@gmail.com>
Date:   Tue Jul 16 09:30:49 2024 +0530

    Kabi Added

commit 1ald27c49fc0539f4f7842fdd14ba6dc4c87ce6f
Author: dharun-Siva <dharunsiva333@gmail.com>
Date:   Tue Jul 16 09:18:36 2024 +0530

    Dharun Added
```

**7.The runner-up should now pull. As a group, look at the output of the command. Additionally, look at the git log**

```
D:\73772114150\csekabi\CSE>git pull origin main
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 252 bytes | 63.00 KiB/s, done.
From https://github.com/dharun-Siva/CSE
 * branch                main                -> FETCH_HEAD
    82a7c51..cf900b6  main                -> origin/main
Updating 82a7c51..cf900b6
Fast-forward
 cse.txt | 3 ++-
1 file changed, 2 insertions(+), 1 deletion(-)
```

```
D:\73772114150\csekabi\CSE>git log
commit cf900b6d4d7e8e8ad4272009bb4531cccf3fbe59 (HEAD -> main, origin/main, origin/HEAD)
Author: Karthi-M9976 <gkarthi904@gmail.com>
Date: Tue Jul 16 09:59:51 2024 +0530
```

cs added

```
commit 82a7c51447419a418fb5e2751fafe2bc685cc0ec
Author: KABIYASHWANTHV <kabiyashwanthkabi@gmail.com>
Date: Tue Jul 16 09:30:49 2024 +0530
```

Kabi Added

```
commit 1a1d27c49fc0539f4f7842fdd14ba6dc4c87ce6f
Author: dharun-Siva <dharunsiva333@gmail.com>
Date: Tue Jul 16 09:18:36 2024 +0530
```

Dharun Added

```
D:\kar\CSE>git add cs.txt

D:\kar\CSE>git commit -m"cs added"
[main cf900b6] cs added
1 file changed, 2 insertions(+), 1 deletion(-)

D:\kar\CSE>git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 272 bytes | 272.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/dharun-Siva/CSE.git
82a7c51..cf900b6 main -> main
branch 'main' set up to track 'origin/main'.

D:\kar\CSE>git log
commit cf900b6d4d7e8e8ad4272009bb4531cccf3fbe59 (HEAD -> main, origin/main, origin/HEAD)
Author: Karthi-M9976 <gkarthi904@gmail.com>
Date: Tue Jul 16 09:59:51 2024 +0530

    cs added

commit 82a7c51447419a418fb5e2751fafe2bc685cc0ec
Author: KABIYASHWANTHV <kabiyashwanthkabi@gmail.com>
Date: Tue Jul 16 09:30:49 2024 +0530

    Kabi Added

commit 1a1d27c49fc0539f4f7842fdd14ba6dc4c87ce6f
Author: dharun-Siva <dharunsiva333@gmail.com>
Date: Tue Jul 16 09:18:36 2024 +0530

    Dharun Added
```

```
D:\kar\CSE>git add cs.txt

D:\kar\CSE>git commit -m"cs added"
[main 959663d] cs added
1 file changed, 1 insertion(+)
create mode 100644 cs.txt

D:\kar\CSE>git push -u origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 270 bytes | 270.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/dharun-Siva/CSE.git
cf900b6..959663d main -> main
branch 'main' set up to track 'origin/main'.
```