Experiment - 2.3

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Section/Group: 22BCD-1/A
Semester: 4th
Date of Performance: 21/02/24
Subject Name: Git and Hub
Subject Code: 22CSH-293

1. **Aim/Overview of the practical:**

   To create Forks on GitHub

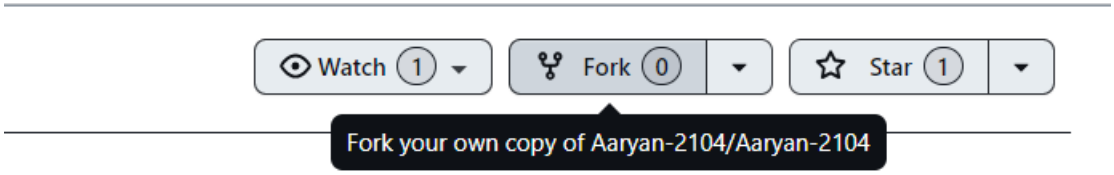
2. **Software Used:**

   Git Bash, Git-Hub.

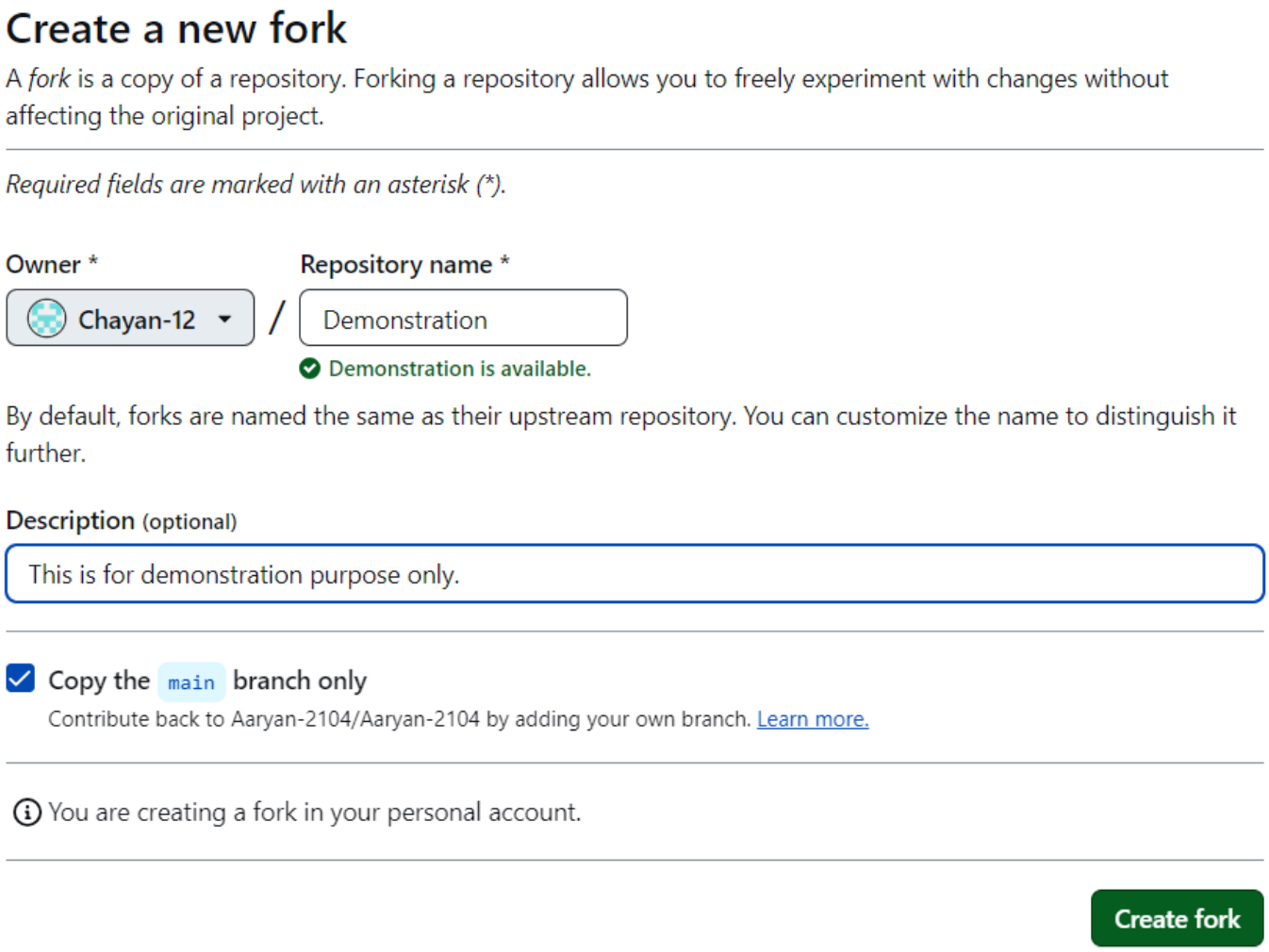
3. **Steps for experiment/practical:**

a) Choose the profile of any person whose repository you want to fork on GitHub.

b) Click on the "Fork" button on the top-right corner of the repository page. This will create a copy of the repository under your own GitHub account.



c) After forking, you'll have the option to provide a name for your forked repository and add a description if you want.



d) Once the fork is created, you'll have access to all the contents of the main branch of the repository. You can make changes to this branch and sync it with the original repository owner's repository if needed.

e) Clone the forked repository onto your local machine using the command: git clone "URL/username/repo_name.git"

```
chaya@Chayan MINGW64 ~ (master)
$ git clone https://github.com/Chayan-12/Demonstration.git
Cloning into 'Demonstration'...
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 9 (delta 2), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (9/9), done.
Resolving deltas: 100% (2/2), done.
```

f) Create a branch “branch1”, to add the changes.

```
chaya@Chayan MINGW64 ~/Demonstration (main)
$ git checkout -b branch1
Switched to a new branch 'branch1'
```

g) Create a new file or edit an existing file on the branch.

h) Enter the details or content into the file. You can also view the contents of the file.

```
chaya@Chayan MINGW64 ~/Demonstration (main)
$ git checkout -b branch1
Switched to a new branch 'branch1'

chaya@Chayan MINGW64 ~/Demonstration (branch1)
$ ls
README.md

chaya@Chayan MINGW64 ~/Demonstration (branch1)
$ vi README.md
```

i) Add the created file to the staging area using the command: git add file_name.txt.

j) Commit the changes with a meaningful commit message using the command: git commit -m "message you want to display"

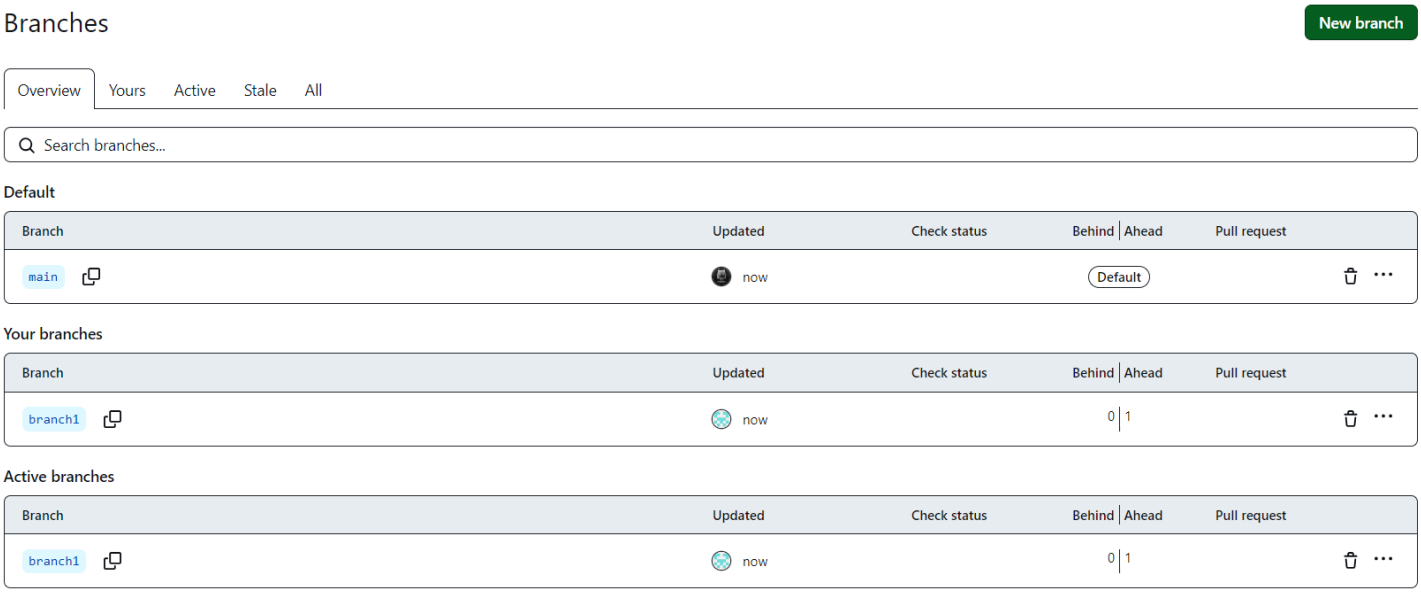
```
chaya@Chayan MINGW64 ~/Demonstration (branch1)
$ git add README.md

chaya@Chayan MINGW64 ~/Demonstration (branch1)
$ git commit -m "Commiting the changes"
[branch1 cb0d349] Commiting the changes
 1 file changed, 2 insertions(+)
```

k) Push the changes to the remote repository (your fork) using the command: git push origin branch1.

```
chaya@Chayan MINGW64 ~/Demonstration (branch1)
$ git push origin branch1
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 307 bytes | 307.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'branch1' on GitHub by visiting:
remote:      https://github.com/Chayan-12/Demonstration/pull/new/branch1
remote:
To https://github.com/Chayan-12/Demonstration.git
 * [new branch]      branch1 -> branch1
```

l) After pushing, you can see the changes reflected on your forked repository on GitHub. You can also compare the changes and open a pull request, but keep in mind that you won't be able to merge it as only users with write access can merge pull requests.



Learning outcomes (What I have learnt):

1. Understanding Git Workflow
2. Learnt about Fork.
3. Version Control Proficiency.
4. Committing changes.
5. Learnt about how to pull requests and push in git bash.

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.			