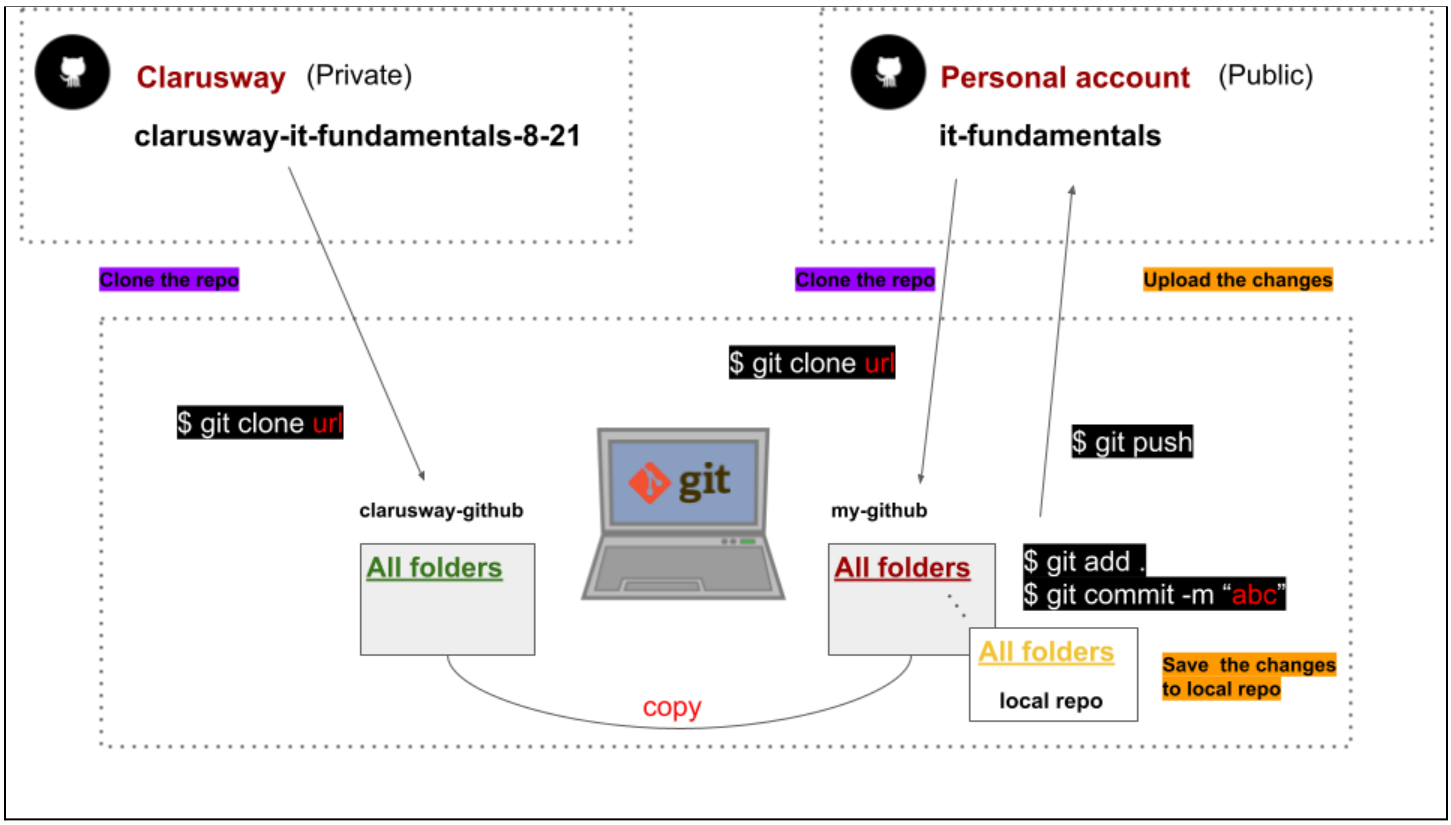
GitHub - Lab



Part-1

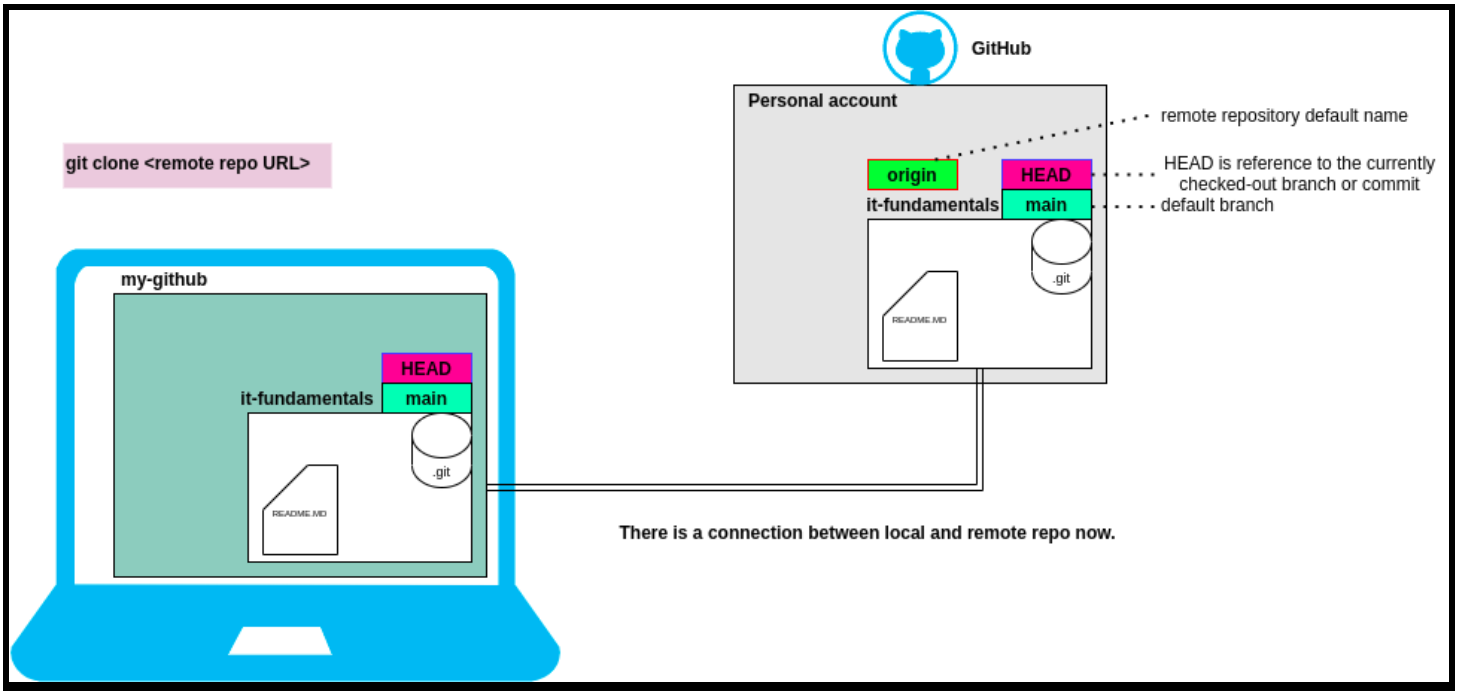
1. Create a repository on your Github account named **it-fundamentals**.

2. Create a folder on your computer named **my-github.**

   ```
   mkdir my-github
   ```

3. Clone your **it-fundamentals** remote repo in **my-github** folder.

   ```
   cd my-github
   git clone https://github.com/xxxxxxxxxx/xxxxxx
   ```

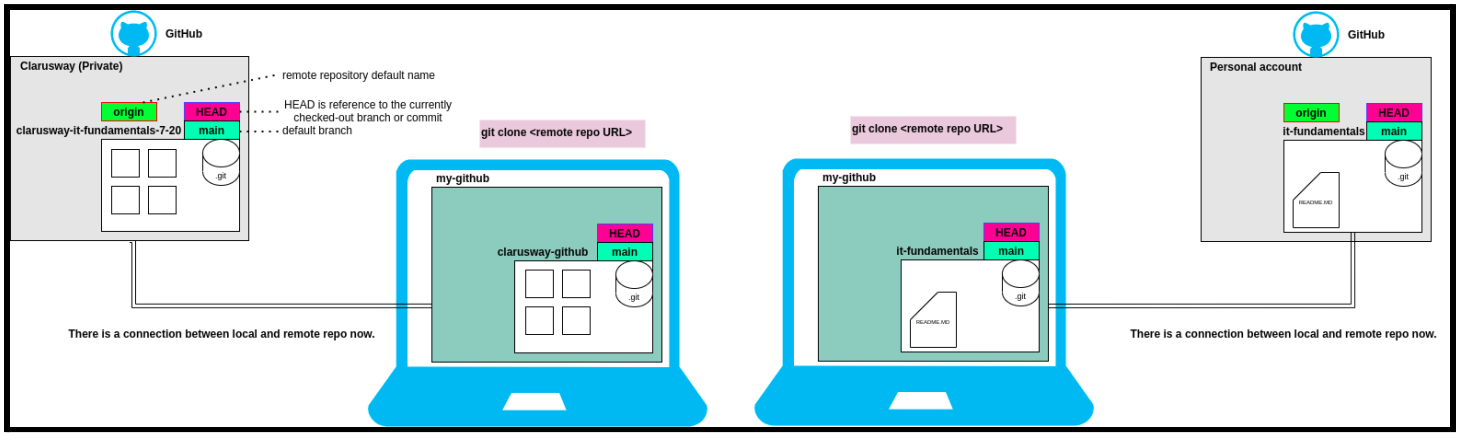


4. Create another folder on your computer named **clarusway-github**.

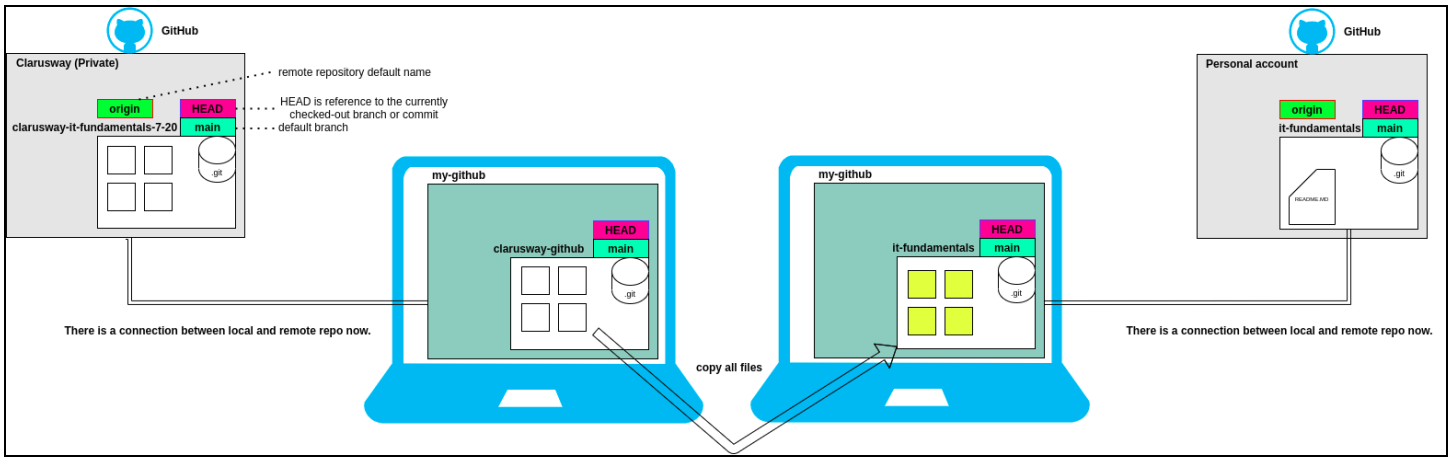
```
mkdir clarusway-github
```

5. Clone the **clarusway-it-fundamentals-8-21** repo in **clarusway-github** folder.

```
cd clarusway-github
git clone https://github.com/clarusway/clarusway-it-fundamentals-8-21
```

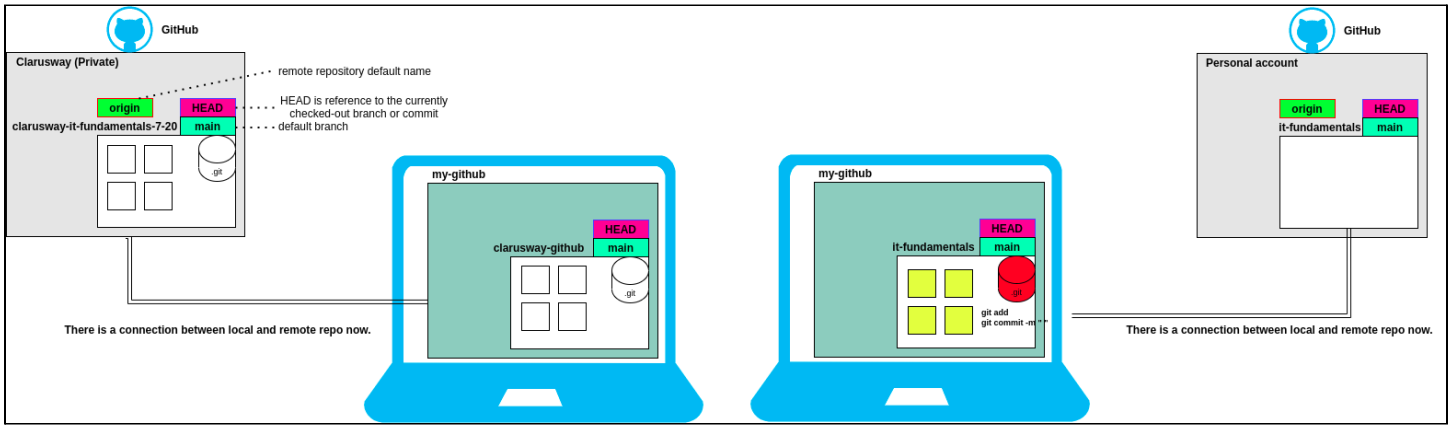


6. Copy all the files and folders in the **clarusway-github** folder to **my-github** folder.



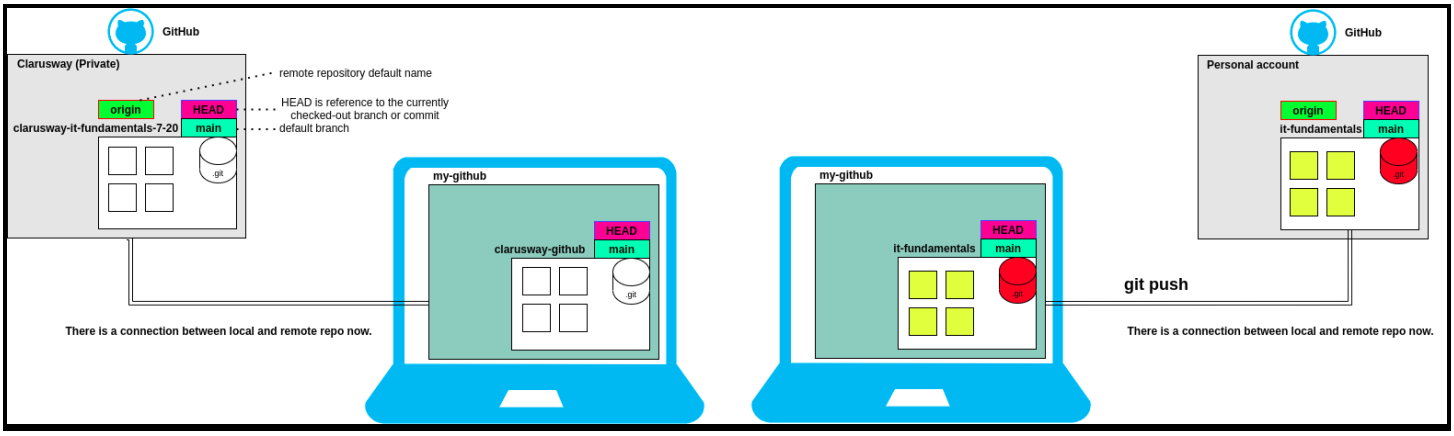
7. Add the changes to your local repo.

```
(cd my-github)
git add .
git commit -m "copied all the files"
```



8. Then send them to your remote repo.

```
git push
```



Part-2

9. Download the changes from **clarusway-it-fundamentals-8-21** (see them in the working directory)

```
git pull
```

10. Copy the **lab1.txt** file from **clarusway-github** folder to **my-github/it-fundamentals/git/lab** folder.

11. In the **my-github/it-fundamentals** directories**:**

Check the status of the project. Add **lab1.txt** file to **index area**. And see the status again.

```
git status
add lab1.txt
git status
```

12. Save the changes to the local repo.

```
git  commit -m " for lab  "
```

13. See commit history.

```
git log --oneline
```

14. Upload the changes to your remote repository.

```
git push
```

Part-3

15. Go to "**my-github/it-fundamentals/git/lab"** directory**:**

- Create a new branch named **front-end**

```
git branch front-end
```

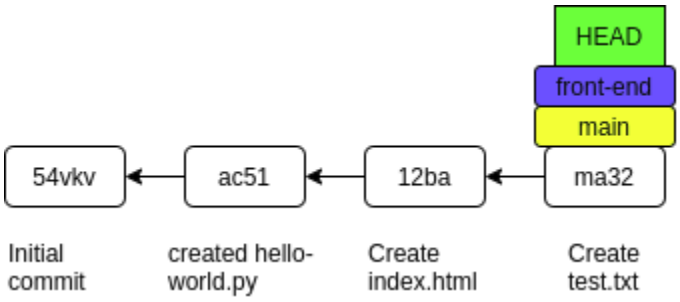
- See branches

```
git branch (show local branchs)
git branch -r (show remote branchs)
git branch -a (show all local and remote branchs)
```

```
  front-end
* main
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
```

- Switch to **front-end** branch

```
git checkout front-end
```



- List the files and check the status of the working directory

```
ls
git status
```

- Make some changes in the **lab1.txt** file, and check the status

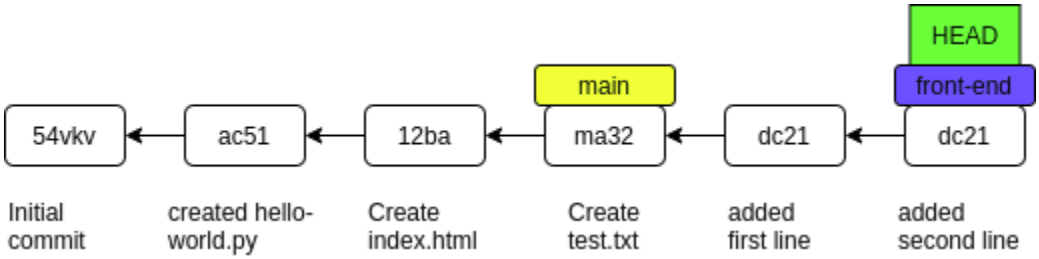
```
vim lab1.txt
git status
```

- Store the changes to the repo and check the status

```
git commit -am "added first line"
git  status
```

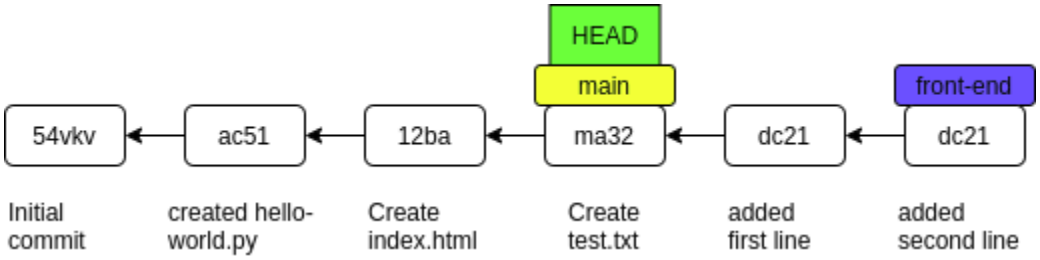
- Add another line to **lab1.txt** and store it to the local repo.

```
vim lab1.txt
git commit -am "added second line"
```



- Switch the main branch and see the content of the **test.txt**

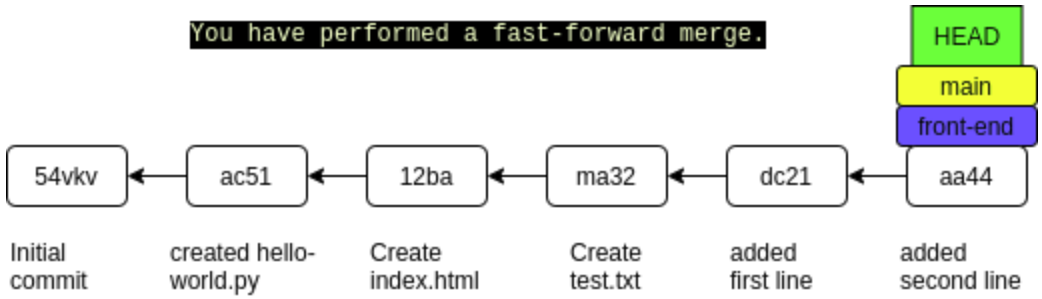
```
git checkout main
cat lab1.txt
```



- Merge front-end branch to **main** branch.

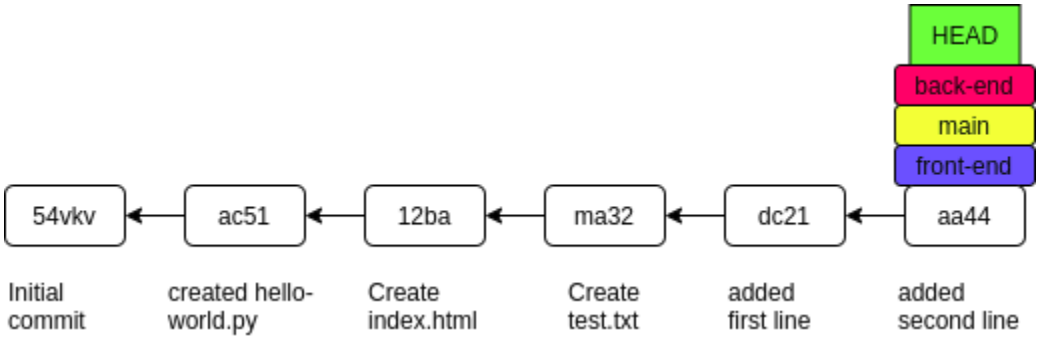
```
git merge front-end
```

```
cat lab1.txt
```



- Create a new branch named **back-end** and switch to it

```
git checkout -b back-end
```

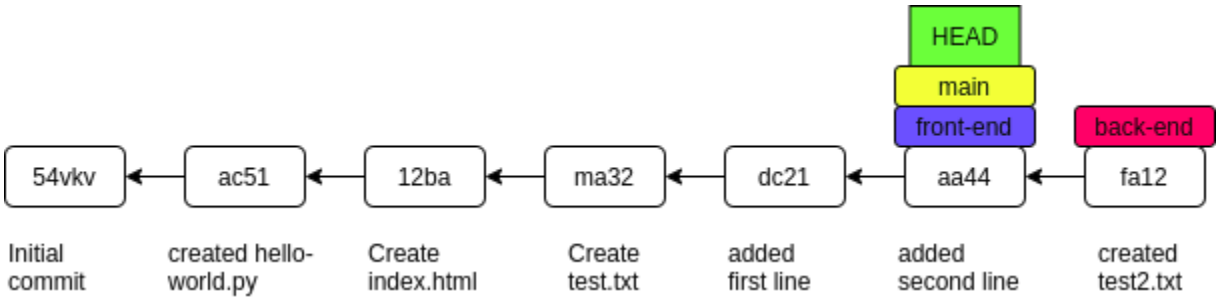


- Create a new file named **test2.txt** and store the changes to repo.

```
touch test2.txt
git add .
git commit -m “created text2.txt”
```

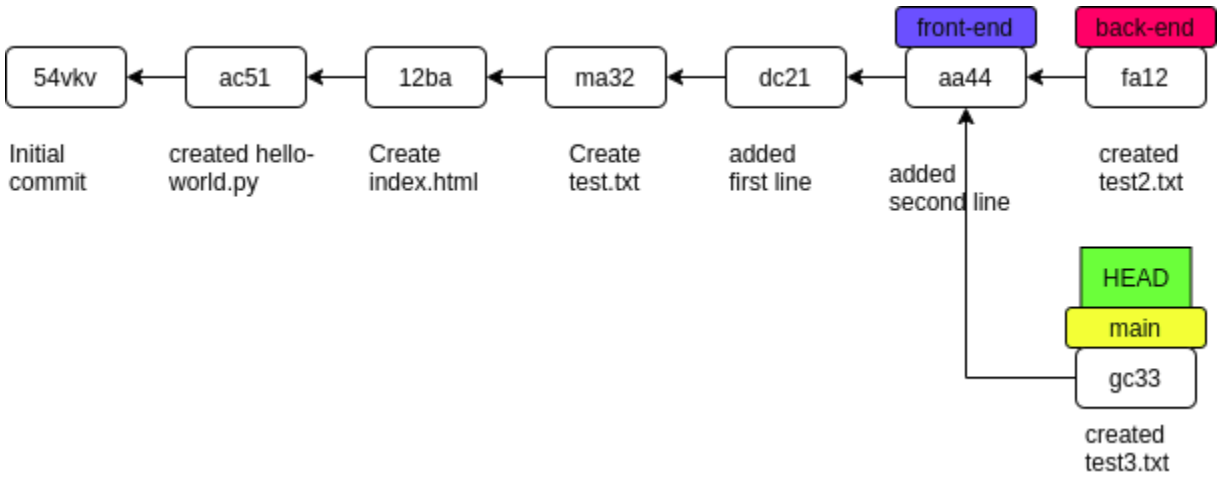
- Switch the main branch again

```
git checkout main
```



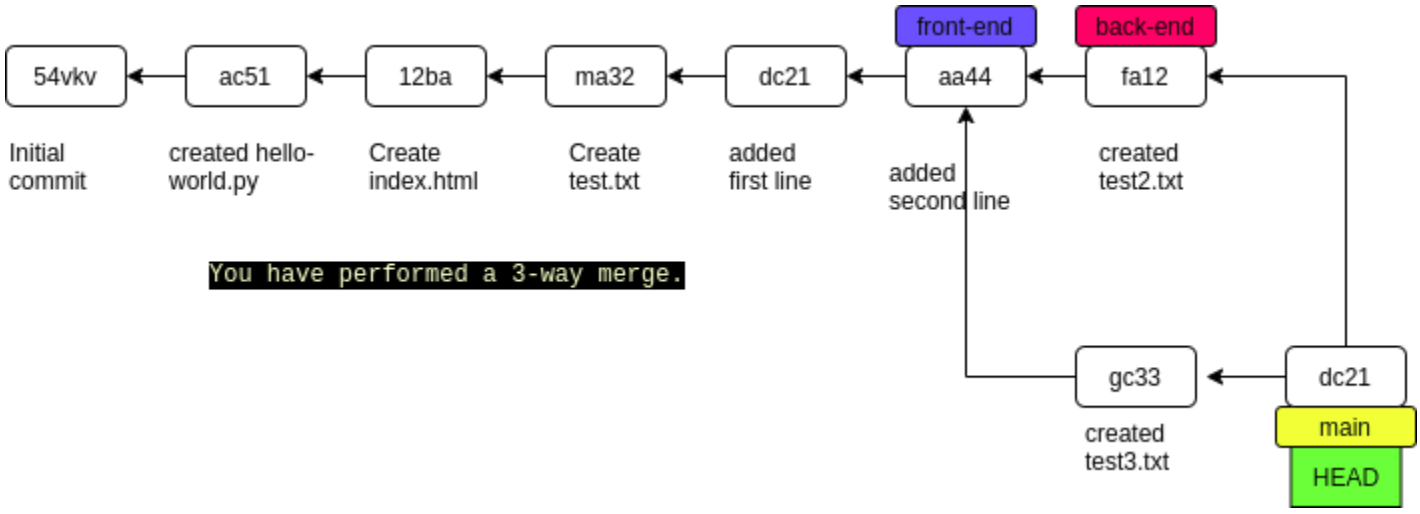
- Create a new file **test3.txt** and send the changes to local repo.

```
touch test3.txt
git add .
git commit -m “created text3.txt”
```



- Merge **main** branch with **back-end** branch

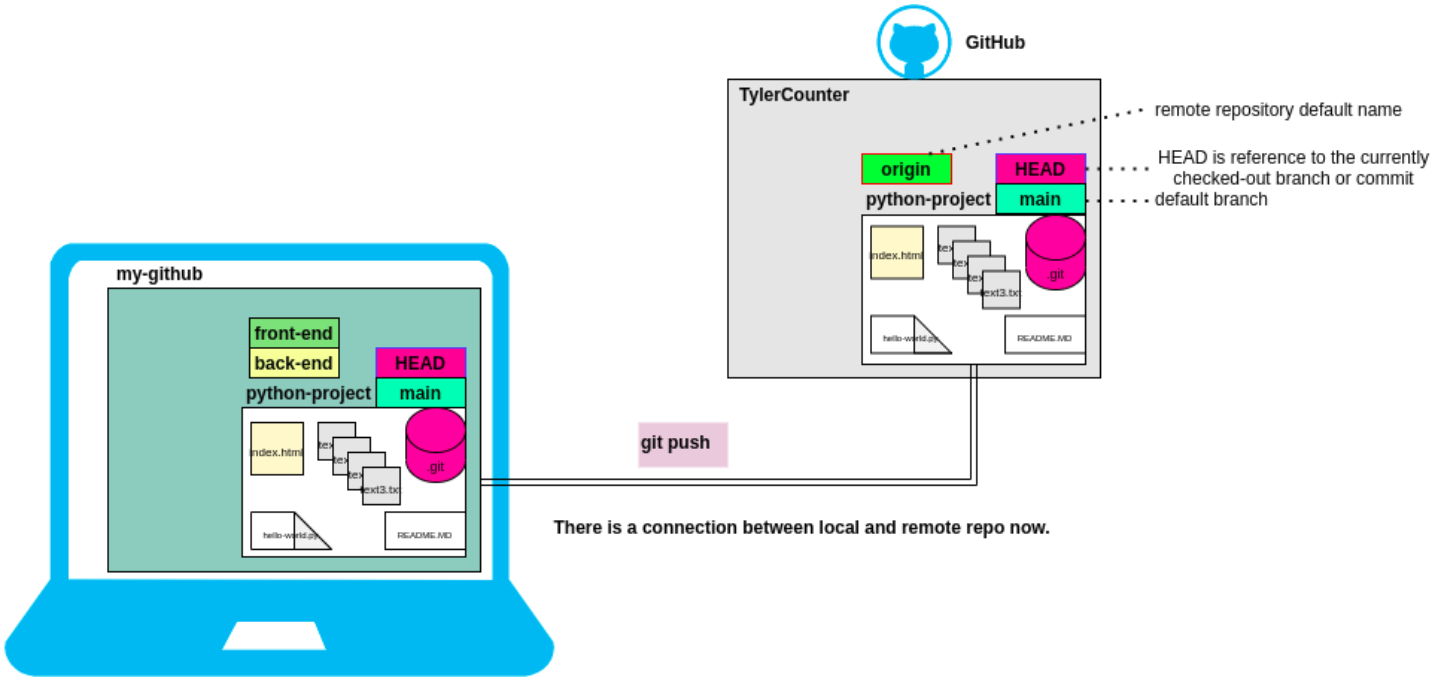
```
git merge back-end
```



Part 4:

- Send the changes to the remote repository

  git push



- Go and check the remote repository

Part 5:

- Go to the terminal and delete the branches named **front-end** and **back-end**

  git branch -d front-end
  git branch -D back-end

- List the all branches

  git branch -a


Congratulation
git
GitHub