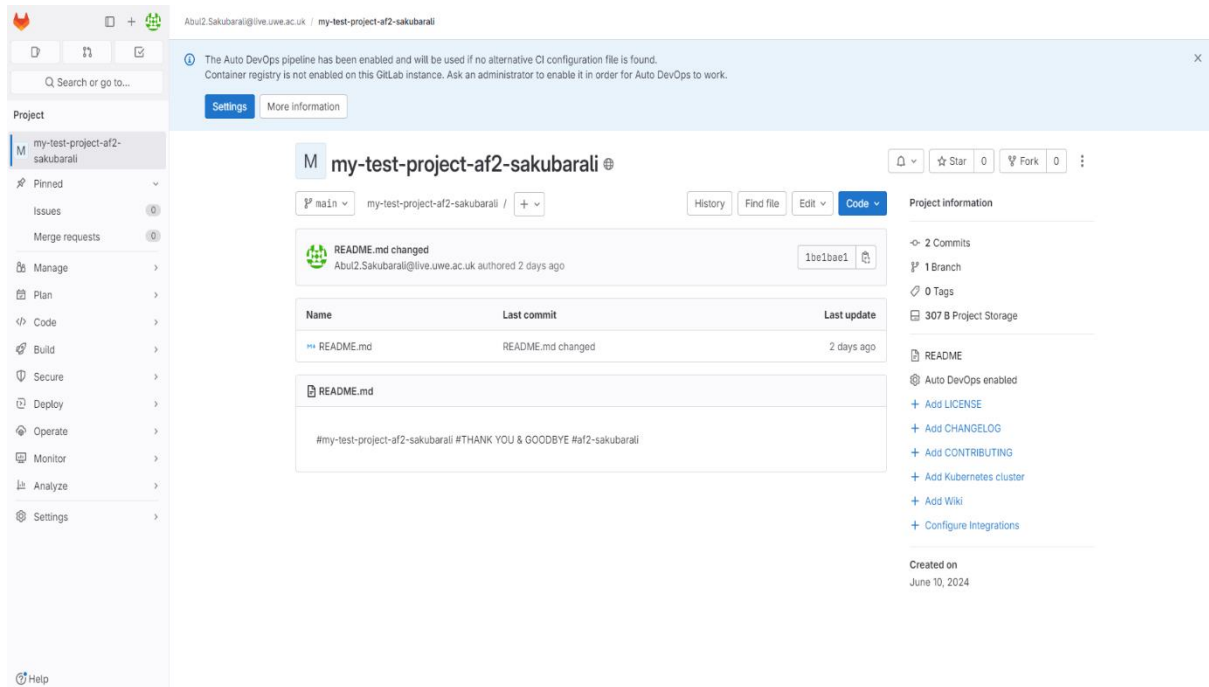


Operating Systems

Worksheet – 1

Gitlab



At first we created a new project in Gitlab and named it as “my-test-project-af2-sakubarali” and it simple to crate to a new project new in Gitlab. We can just log-in and a dashboard will be visible in the dash board we can select new project and name it as we want.

After we create our project we would have an empty repository so we have to copy it in our local machine and develop it (we did this with Ubuntu) once get into ubuntu first we may need to login to the machine and then open our terminal after we open our terminal we have to verify that the git is already installed or not. So for that we use this command.

As our git is not installed we used “sudo apt install git” to install out Gitlab.

after we installed the git. We use “git config --global user.name "username"” this command toaccess our username in Gitlab. We must enter our user name in the place between the double quotations ("") to access our id. And we use the command “git config --global user.email “username@uwe.ac.uk” “ to access our mail. We do all this to connect with our Gitlab account.

After that we made a file directory called OS project with the command “ mkdir os_project ”

And then we directed our path to the directory by the command “ cd os_project ”

No we cloned our project by simply copying the HTTPS link from our project page and used git clone to clone our project like below mentioned pictured and the code used is

git clone <https://gitlab.uwe.ac.uk/af2-sakubarali/my-test-project-af2-sakubarali.git>

And then we have to use our User name and password to clone the project from git like the picture below

```
abul2sakubarali@faiz-VirtualBox:~/os_project$ git clone https://gitlab.uwe.ac.uk/af2-sakubarali/my-test-project-af2-sakubarali
Cloning into 'my-test-project-af2-sakubarali'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), done.
Checking connectivity... done.
```

After we cloned our we direct our project by using “ cd ” command and then we use “ ls ” command to view our list when we use the our terminal would be like this So then we have to create our first file in our empty repository for that we can use the ubuntu’s built-in gedit editor and create the file called README.md (the .md is a markup file type)by the command

gedit README.md

```
abul2sakubarali@faiz-VirtualBox:~/os_project$ ls
my-first-project  my-test-project-af2-sakubarali
abul2sakubarali@faiz-VirtualBox:~/os_project$ cd my-first-project
abul2sakubarali@faiz-VirtualBox:~/os_project/my-first-project$ ls
README.md
abul2sakubarali@faiz-VirtualBox:~/os_project/my-first-project$ cd ..
abul2sakubarali@faiz-VirtualBox:~/os_project$ cd my-test-project-af2-sakubarali
abul2sakubarali@faiz-VirtualBox:~/os_project/my-test-project-af2-sakubarali$ ls
README.md
abul2sakubarali@faiz-VirtualBox:~/os_project/my-test-project-af2-sakubarali$ gedit README.md
```

And then we’ll be directed to a text file were which is our README.md file in which we can whatever we need and to check if this is worked and saved in the README.md file we can use the code.

“ git status ”

and we will get and output like this

```
abul2sakubarali@faiz-VirtualBox:~/os_project/my-test-project-af2-sakubarali$ 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 checkout -- <file>..." to discard changes in working directory)

        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
abul2sakubarali@faiz-VirtualBox:~/os_project/my-test-project-af2-sakubarali$ ^C
abul2sakubarali@faiz-VirtualBox:~/os_project/my-test-project-af2-sakubarali$ git add README.md
abul2sakubarali@faiz-VirtualBox:~/os_project/my-test-project-af2-sakubarali$ git status
On branch main
Your branch is up-to-date with 'origin/main'.
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   README.md
```

So now it says that were no modifications done with our README.md file so to make the modification in our file we can use the command

`git commit -m "README.md changed"`

```
abul2sakubarali@faiz-VirtualBox:~/os_project/my-test-project-af2-sakubarali$ git commit -m "README.md changed"
[main 1be1bae] README.md changed
1 file changed, 4 insertions(+), 93 deletions(-)
rewrite README.md (99%)
```

Here we can see that our changes are made permanent and then our next is step is to push our README to the remote repository by using the command “ git push -u origin main ” and we will be asked our user name and password again and after we entered those we’ll be seeing our screen like this

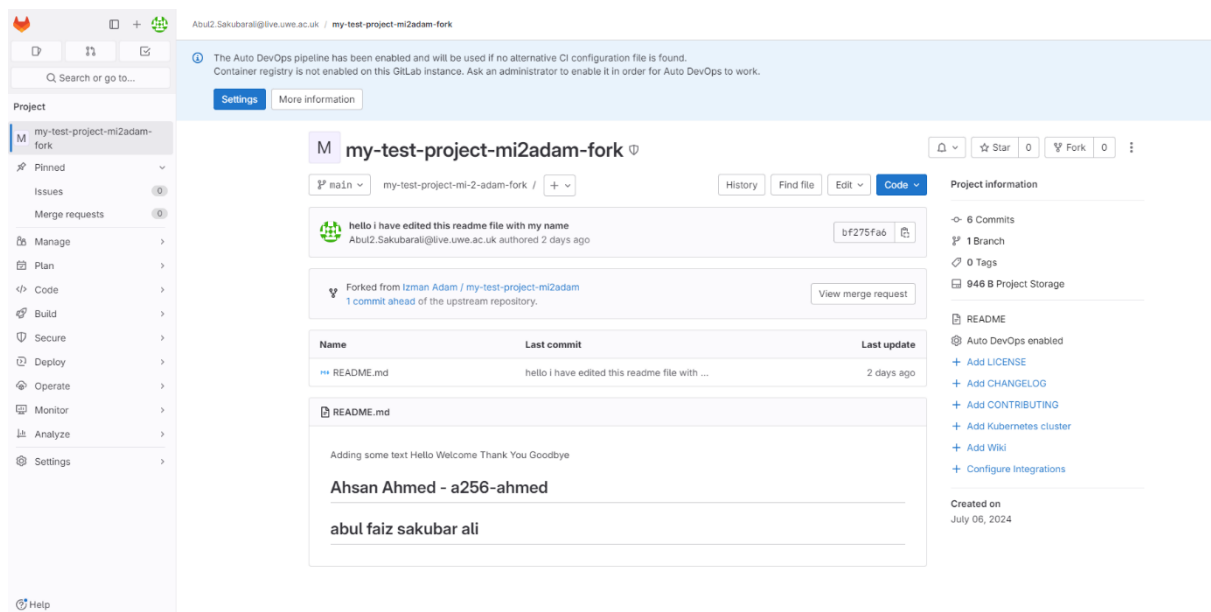
`“ git push -u origin main ”`

```
abul2sakubarali@faiz-VirtualBox:~/os_project/my-test-project-af2-sakubarali$ git push -u origin main
Username for 'https://gitlab.uwe.ac.uk': af2-sakubarali
Password for 'https://af2-sakubarali@gitlab.uwe.ac.uk':
Counting objects: 3, done.
Delta compression using up to 6 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 320 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://gitlab.uwe.ac.uk/af2-sakubarali/my-test-project-af2-sakubarali
 c61d8a3..1be1bae  main -> main
Branch main set up to track remote branch main from origin.
```

So then we can tell that our README.md is pushed to our remote repository.

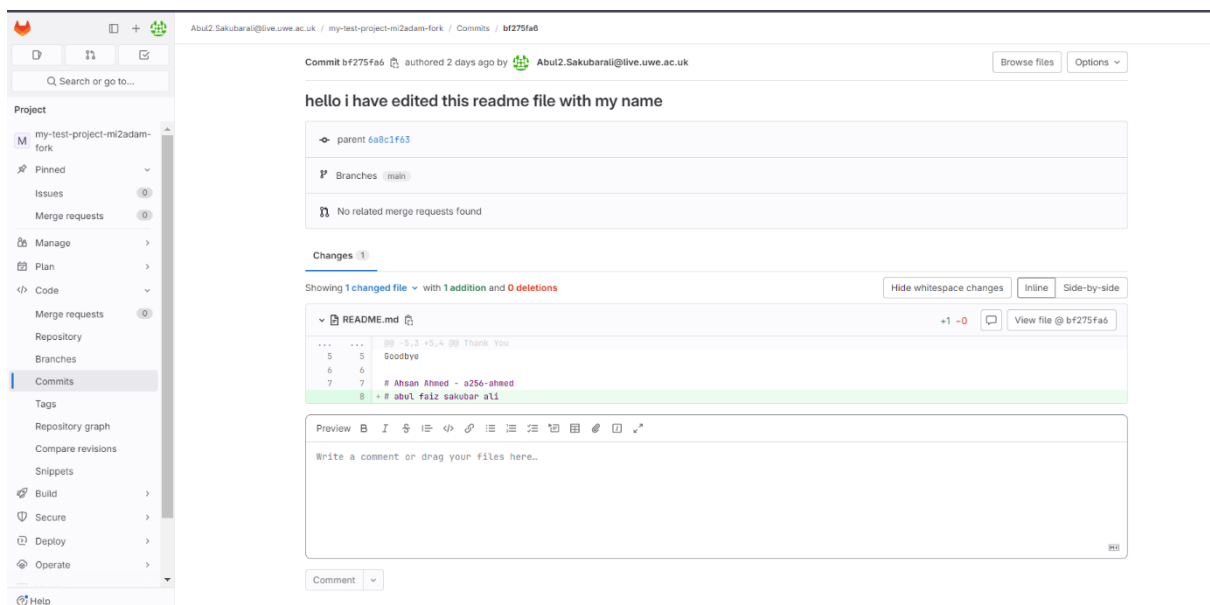
And we open our Gitlab we can see our README.md file and when we open it we can find the text we entered in our README.md file. And then I used my friend’s project to merge.

<https://gitlab.uwe.ac.uk/af2-sakubarali/my-test-project-mi-2-adam-fork>



And then I simply clicked the fork button and then I merged his README.md file with mine then I changed I wrote as “abul faiz sakubar ali”.

Which can be seen clearly here:



As I saved it later the merge request will be closed on it's own.

we completed the Worksheet – 1.

Thank you.