

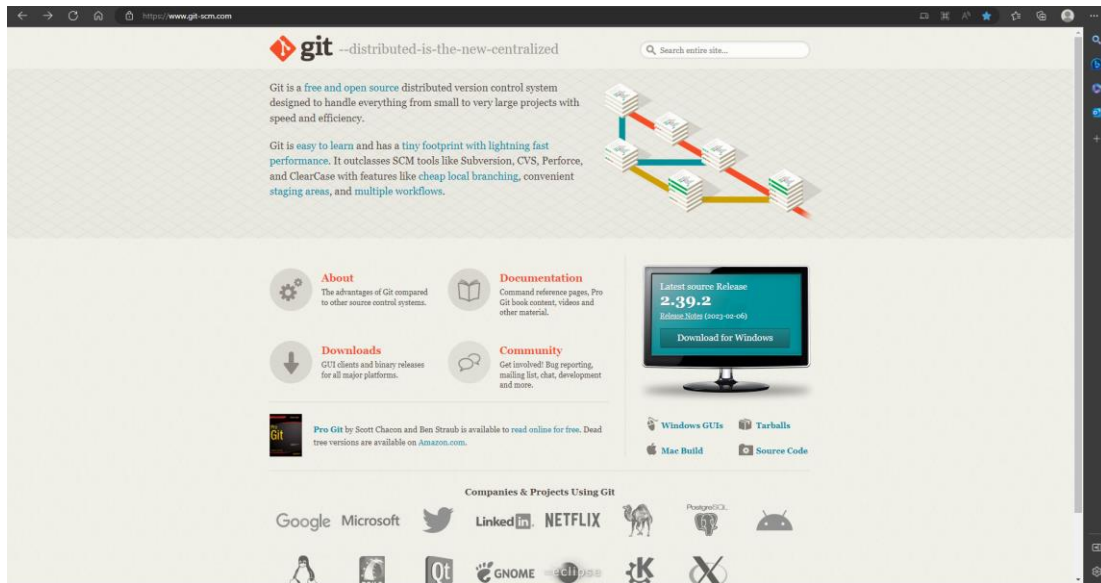
Devops Assignments- Module 1- Working with Git & GitHub

Assignment 1- Installing and Configuring Git.txt

Git :- Git is an Utility which helps to perform CRUD operations on local machines.

CURD -> Create, Read, Update, Delete

- 1) To install Git here is the official website :- <https://www.git-scm.com/>



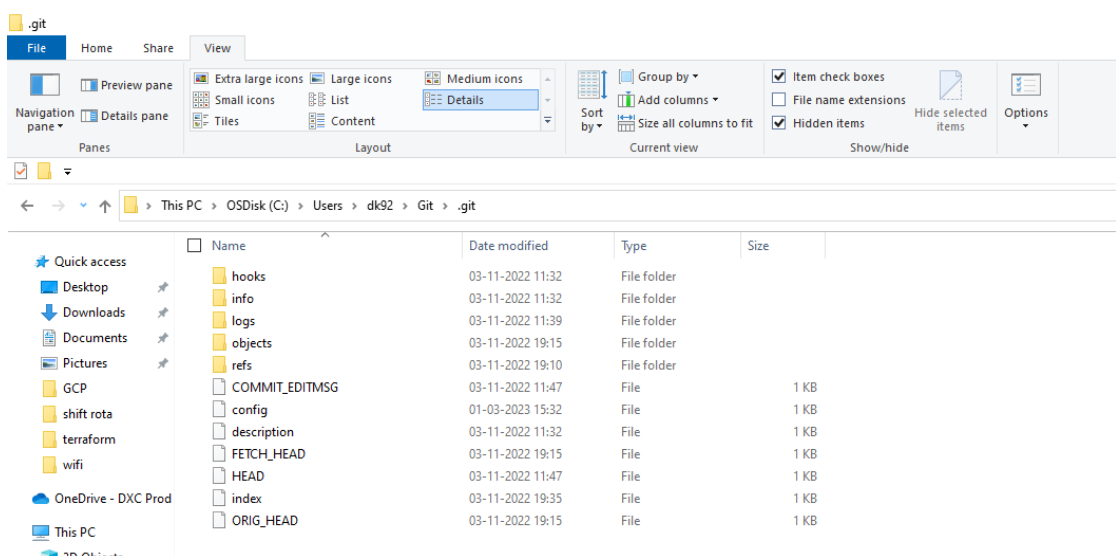
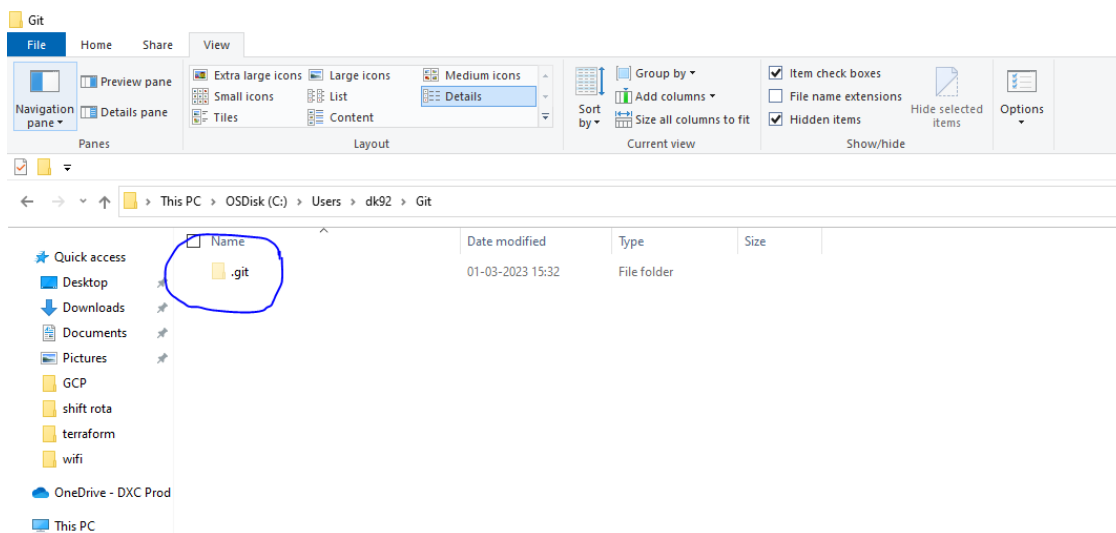
- 2) Git has been successfully Installed.



3) To Initialize the git repository:-

- Command → git init

```
Git CMD
C:\Users\dk92>cd git
C:\Users\dk92\Git>git init
Reinitialized existing Git repository in C:/Users/dk92/Git/.git/
C:\Users\dk92\Git>
```




Here: -

- Git folder → is a Working Directory.

- .git folder → is a Local Repository.


Git Commands: -

- Git add → to add a new file.
- Git commit -m "file_name" → to add a new file to git's local repository.

 Git CMD


```
C:\Users\dk92\Git>notepad new_file2  
C:\Users\dk92\Git>git add .  
C:\Users\dk92\Git>git commit -m new_file2  
[master 6e83e20] new_file2  
1 file changed, 1 insertion(+)  
create mode 100644 new_file2.txt  
C:\Users\dk92\Git>
```

- Git branch → to view branch

 Git CMD

```
C:\Users\dk92\Git>git branch  
* master  
repository  
C:\Users\dk92\Git>
```

- Git branch "branch_name" → to create a new branch.
- Git checkout "branch_name" → to switch between branch.

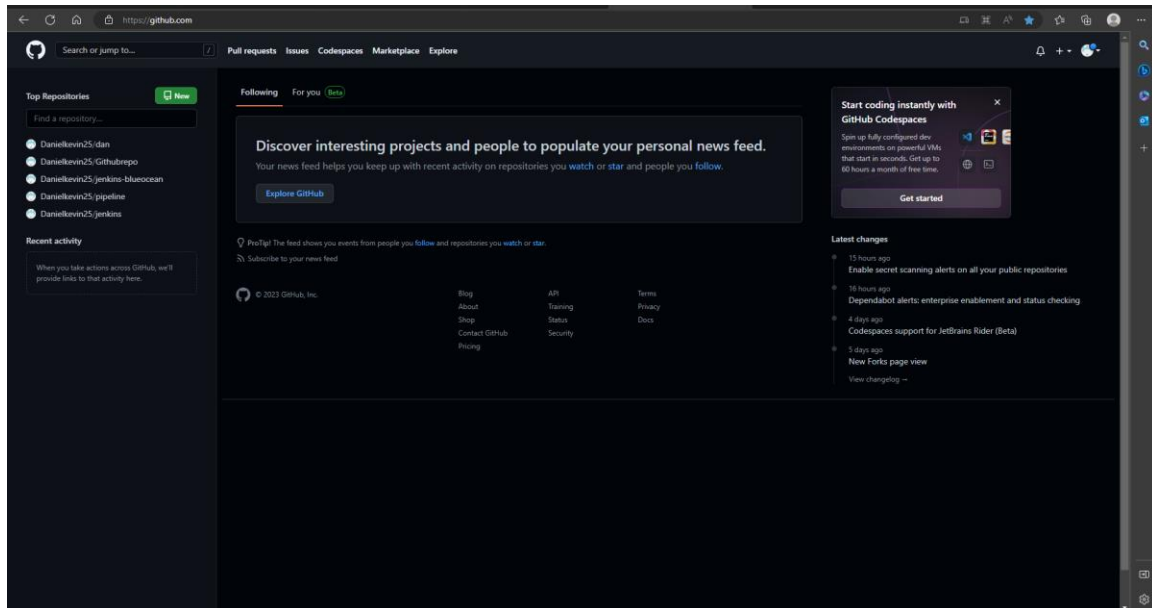
 Git CMD

```
C:\Users\dk92\Git>git branch  
* master  
repository  
C:\Users\dk92\Git>git checkout repository  
Switched to branch 'repository'  
C:\Users\dk92\Git>git branch  
master  
* repository  
C:\Users\dk92\Git>
```

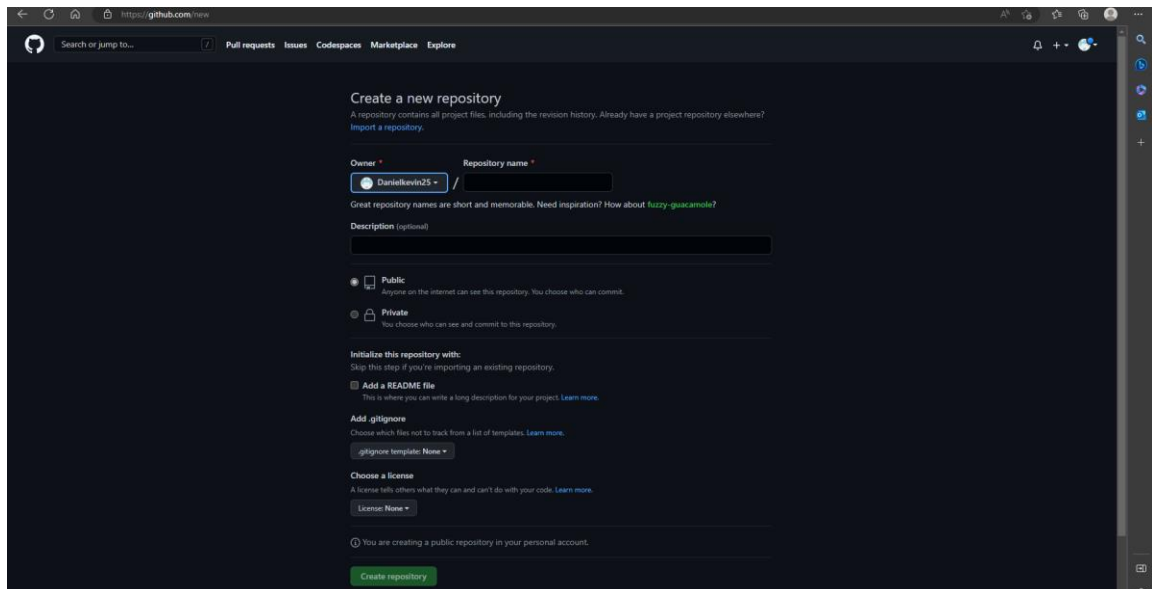
- Git merge "branch_name" → to merge branch.

GitHub

Here is the Official website for GitHub :- <https://github.com/>



1) Here we can create new Repository.

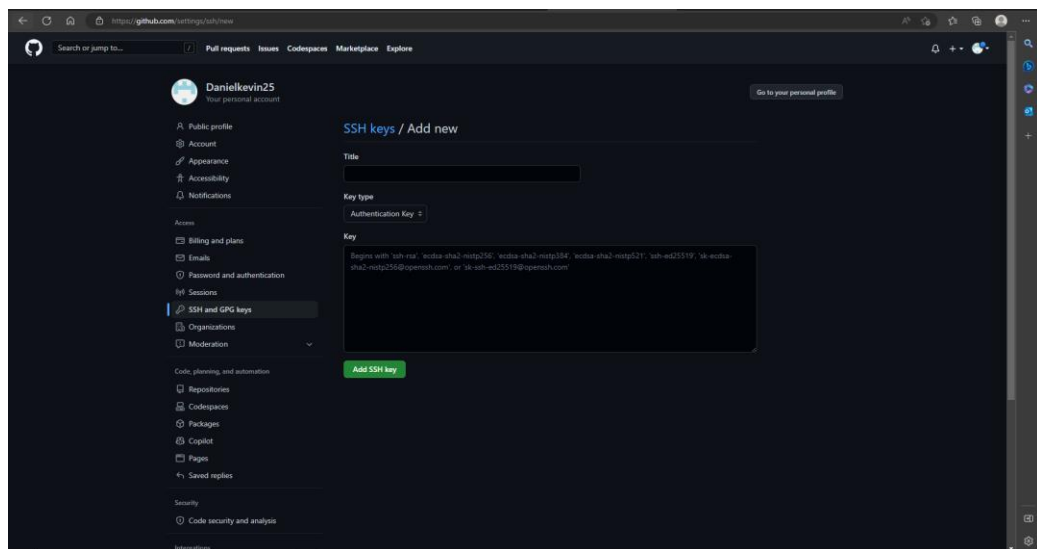


2) To connect to git create a SSH key :-

- Command → ssh-keygen

```
Git CMD
C:\Users\dk92\Git>ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (C:\Users\dk92\.ssh\id_rsa): dankey
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in dankey.
Your public key has been saved in dankey.pub.
The key fingerprint is:
SHA256:6rh82eydhVFFo1tHvza+VsXTSMda1kzSt64cAI63jp0 ead\dk92@IN-PF1C3PKK
The key's randomart image is:
+---[RSA 3072]-----+
|
|   .==+
|   . o.+@
|  o . o.*=
| . o o oooo
|  S o o .#.
| . o .oo=
| .++ o o o.o
| . oo.oE o o ..
|+o... o ..
+---[SHA256]-----+
C:\Users\dk92\Git>
```

Open the file in notepad and paste it in github SSH and GPG keys



Here is my GitHub Repository:-

