

GIT COMMANDS

1. Sets the username for Git commits globally. Or display username

```
C:\Users\tallu>git config --global user.name  
TNRtn
```

2. Sets the email for Git commits globally. Or display email

```
C:\Users\tallu>git config --global user.email  
tallurinaleswarao824@gmail.com
```

3. Lists all current Git configurations.

```
C:\Users\tallu>git config --list  
diff.astextplain.textconv=astextplain  
filter.lfs.clean=git-lfs clean -- %f  
filter.lfs.smudge=git-lfs smudge -- %f  
filter.lfs.process=git-lfs filter-process  
filter.lfs.required=true  
http.sslbackend=openssl  
http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt  
core.autocrlf=true  
core.fscache=true  
core.symlinks=false  
pull.rebase=false  
credential.helper=manager  
credential.https://dev.azure.com.usehttppath=true  
init.defaultbranch=master  
user.email=tallurinaleswarao824@gmail.com  
user.name=TNRtn  
core.repositoryformatversion=0  
core.filemode=false  
core.bare=false  
core.logallrefupdates=true  
core.symlinks=false  
core.ignorecase=true  
gui.wmstate=zoomed  
gui.geometry=1109x563+32+32 216 255
```

4. Initializes a new Git repository.

```
C:\Users\tallu>git init  
Reinitialized existing Git repository in C:/Users/tallu/.git/
```

5. Clones an existing repository from a URL.

```
C:\Users\tallu\OneDrive\Documents\morphal>git clone https://github.com/TNRtn/Developers-hub
Cloning into 'Developers-hub'...
remote: Enumerating objects: 37, done.
remote: Counting objects: 100% (37/37), done.
remote: Compressing objects: 100% (33/33), done.
remote: Total 37 (delta 3), reused 37 (delta 3), pack-reused 0 (from 0)
Receiving objects: 100% (37/37), 420.93 KiB | 1023.00 KiB/s, done.
Resolving deltas: 100% (3/3), done.
```

6. Shows the status of the working directory (staged, modified, and untracked files).
7. Shows a history of commits in the current branch.

```
C:\Users\tallu\OneDrive\Documents\morphal>git log
commit f8e8affdbd4730378747036b07226701cc2362df (HEAD -> master, origin/master)
Author: TNRtn <tallurinageswarao824@gmail.com>
Date: Tue Nov 12 11:02:57 2024 +0530

    Django project
```

8. Displays commit history in a single line.

```
C:\Users\tallu\OneDrive\Documents\morphal>git log --oneline
f8e8aff (HEAD -> master, origin/master) Django project
```

9. Shows a graphical view of the commit history.

```
C:\Users\tallu\OneDrive\Documents\morphal>git log --graph --decorate --oneline
* f8e8aff (HEAD -> master, origin/master) Django project
```

10. Displays detailed information about a specific commit.

```
C:\Users\tallu\OneDrive\Documents\morphal>git show f8e8affdbd4730378747036b07226701cc2362df
commit f8e8affdbd4730378747036b07226701cc2362df (HEAD -> master, origin/master)
Author: TNRtn <tallurinageswarao824@gmail.com>
Date: Tue Nov 12 11:02:57 2024 +0530

    Django project

diff --git a/morphal/db.sqlite3 b/morphal/db.sqlite3
new file mode 100644
index 0000000..e69de29
diff --git a/morphal/labs/__init__.py b/morphal/labs/__init__.py
new file mode 100644
index 0000000..e69de29
diff --git a/morphal/labs/__pycache__/__init__.cpython-37.pyc b/morphal/labs/__pycache__/__init__.cpython-37.pyc
new file mode 100644
index 0000000..94fdcee
Binary files /dev/null and b/morphal/labs/__pycache__/__init__.cpython-37.pyc differ
diff --git a/morphal/labs/__pycache__/admin.cpython-37.pyc b/morphal/labs/__pycache__/admin.cpython-37.pyc
new file mode 100644
index 0000000..60fa05e
Binary files /dev/null and b/morphal/labs/__pycache__/admin.cpython-37.pyc differ
diff --git a/morphal/labs/__pycache__/models.cpython-37.pyc b/morphal/labs/__pycache__/models.cpython-37.pyc
new file mode 100644
index 0000000..8c05c0d
Binary files /dev/null and b/morphal/labs/__pycache__/models.cpython-37.pyc differ
diff --git a/morphal/labs/__pycache__/views.cpython-37.pyc b/morphal/labs/__pycache__/views.cpython-37.pyc
new file mode 100644
index 0000000..5897482
Binary files /dev/null and b/morphal/labs/__pycache__/views.cpython-37.pyc differ
diff --git a/morphal/labs/admin.py b/morphal/labs/admin.py
new file mode 100644
index 0000000..8c38f3f
--- /dev/null
+++ b/morphal/labs/admin.py
@@ -0,0 +1,3 @@
+from django.contrib import admin
+
+# Register your models here.
diff --git a/morphal/labs/apps.py b/morphal/labs/apps.py
new file mode 100644
```

11. Adds a specific file to the staging area. `git add <file-name>`
12. Adds all files (tracked and untracked) to the staging area. `git add .`
13. Adds all JavaScript files to the staging area. `git add *.js`
14. Removes a file from the working directory and staging area. `git rm <file-name>`
15. Removes a file from Git tracking but keeps it locally. `git rm --cached <file>`
16. Renames or moves a file. `git mv <old-name> <new-name>`
17. Restores the file from the last commit (discards changes). `git restore <file>`
18. Unstages a file that was added to the staging area. `git restore --staged <file>`
19. Commits the staged changes with a message. `git commit -m "commit message"`
20. Changes the commit message of the most recent commit.

```
C:\Users\tallu\OneDrive\Documents\morphal>git commit --amend -m "new message"
[master 8f13860] new message
Date: Tue Nov 12 11:02:57 2024 +0530
23 files changed, 244 insertions(+)
create mode 100644 morphal/db.sqlite3
create mode 100644 morphal/labs/__init__.py
create mode 100644 morphal/labs/__pycache__/__init__.cpython-37.pyc
create mode 100644 morphal/labs/__pycache__/admin.cpython-37.pyc
create mode 100644 morphal/labs/__pycache__/models.cpython-37.pyc
create mode 100644 morphal/labs/__pycache__/views.cpython-37.pyc
create mode 100644 morphal/labs/admin.py
create mode 100644 morphal/labs/apps.py
create mode 100644 morphal/labs/migrations/__init__.py
create mode 100644 morphal/labs/migrations/__pycache__/__init__.cpython-37.pyc
create mode 100644 morphal/labs/models.py
create mode 100644 morphal/labs/tests.py
create mode 100644 morphal/labs/views.py
create mode 100644 morphal/manage.py
create mode 100644 morphal/morphal/__init__.py
create mode 100644 morphal/morphal/__pycache__/__init__.cpython-37.pyc
create mode 100644 morphal/morphal/__pycache__/settings.cpython-37.pyc
create mode 100644 morphal/morphal/__pycache__/urls.cpython-37.pyc
create mode 100644 morphal/morphal/__pycache__/wsgi.cpython-37.pyc
create mode 100644 morphal/morphal/asgi.py
create mode 100644 morphal/morphal/settings.py
create mode 100644 morphal/morphal/urls.py
create mode 100644 morphal/morphal/wsgi.py
```

- 21 Adds all modified files and commits them.

```
C:\Users\tallu\OneDrive\Documents\morphal>git commit -a -m "commit message"
[master 5214b11] commit message
2 files changed, 0 insertions(+), 0 deletions(-)
```

22. Commits without changing the previous message.

- 23) Lists all branches in the repository.

```
C:\Users\tallu\OneDrive\Documents\morphal>git branch
* master
```

24) Creates a new branch.

```
C:\Users\tallu\OneDrive\Documents\morphal>git branch TNR  
C:\Users\tallu\OneDrive\Documents\morphal>git branch  
TNR  
* master
```

25) Deletes a local branch.

```
C:\Users\tallu\OneDrive\Documents\morphal>git branch -d TNR  
Deleted branch TNR (was 5214b11).  
C:\Users\tallu\OneDrive\Documents\morphal>git branch  
* master
```

26) Deletes a local branch (forcefully).

```
C:\Users\tallu\OneDrive\Documents\morphal>git branch -D tnr  
Deleted branch tnr (was 5214b11).  
C:\Users\tallu\OneDrive\Documents\morphal>git branch  
* master
```

27) Switches to the specified branch.

```
C:\Users\tallu\OneDrive\Documents\morphal>git checkout tnr  
Switched to branch 'tnr'
```

28) Creates a new branch and switches to it.

```
C:\Users\tallu\OneDrive\Documents\morphal>git checkout -b srm  
Switched to a new branch 'srm'
```

29) Merges another branch into the current branch.

```
C:\Users\tallu\OneDrive\Documents\morphal>git merge master  
Already up to date.
```

30) Cancels a conflicted merge.

```
C:\Users\tallu\OneDrive\Documents\morphal>git merge --abort  
fatal: There is no merge to abort (MERGE_HEAD missing).
```

31) Reapplies commits on top of another base branch.

```
C:\Users\tallu\OneDrive\Documents\morphal>git rebase tnr  
Current branch srm is up to date.
```

32) Stashes uncommitted changes for later use.

```
C:\Users\tallu\OneDrive\Documents\morphal>git stash  
No local changes to save
```

33). Lists all stashes.

```
C:\Users\tallu\OneDrive\Documents\morphal>git stash list
```

34) Applies the latest stash to the working directory.

```
C:\Users\tallu\OneDrive\Documents\morphal>git stash apply  
No stash entries found.
```

35) Applies a specific stash.

```
git stash apply stash@{1}
```

36) Deletes a specific stash.

```
git stash drop stash@{1}
```

37) Clears all stashes.

```
git stash clear
```

38) Lists the remote URL(s) associated with the repository.

```
C:\Users\tallu\OneDrive\Documents\morphal>git remote -v
origin  https://github.com/TNRtn/morphal-labs.git (fetch)
origin  https://github.com/TNRtn/morphal-labs.git (push)
```

39) Adds a remote repository named **origin**.

```
git remote add origin <url>
```

40) Removes the remote called **origin**.

```
git remote remove origin
```

41) Shows the details of the remote repository.

```
C:\Users\tallu\OneDrive\Documents\morphal>git remote show origin
* remote origin
  Fetch URL: https://github.com/TNRtn/morphal-labs.git
  Push URL: https://github.com/TNRtn/morphal-labs.git
  HEAD branch: master
  Remote branch:
    master tracked
  Local branch configured for 'git pull':
    master merges with remote master
  Local ref configured for 'git push':
    master pushes to master (local out of date)
```

42) Pushes changes to the remote branch.

```
git push origin <branch-name>
```

43) Sets the upstream branch and pushes changes.

```
git push --set-upstream origin <branch-name>
```

44) Pushes the main branch and sets upstream tracking.

```
git push -u origin main
```

45) Pulls changes from the remote branch.

```
C:\Users\tallu\OneDrive\Documents\morphal>git pull origin master
From https://github.com/TNRtn/morphal-labs
* branch          master      -> FETCH_HEAD
fatal: refusing to merge unrelated histories
```

46) Downloads commits, files, and refs from a remote repository.

Git fetch

47) Forcefully pushes changes, overwriting remote history.

git push -force

48)