

Module 2: Git Assignment - 5

Tasks To Be Performed:

1. Create a Git Flow workflow architecture on Git
2. Create all the required branches
3. Starting from the feature branch, push the branch to the master, following the architecture
4. Push a urgent.txt on master using hotfix

Answer:

1. Create a Git Flow workflow architecture on Git

Create the task5 Directory and Initialize the Repository:

```
Get:44 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:45 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:46 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 C-N-F Metadata [116 B]
Fetched 28.7 MB in 6s (5181 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
46 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-13-157:~$ mkdir task5
ubuntu@ip-172-31-13-157:~$ cd task5
ubuntu@ip-172-31-13-157:~/task5$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/ubuntu/task5/.git/
ubuntu@ip-172-31-13-157:~/task5$ touch main.txt
ubuntu@ip-172-31-13-157:~/task5$ git add.
git: 'add.' is not a git command. See 'git --help'.

The most similar command is
add
ubuntu@ip-172-31-13-157:~/task5$ git add .
ubuntu@ip-172-31-13-157:~/task5$ git commit -m 'main.txt committing'
(master root-commit) cc7f7671 main.txt committing
Committer: Ubuntu <ubuntu@ip-172-31-13-157.ap-south-1.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
```

2. Create all the required branches
- Created the f1, f2, and test branches.

```

ubuntu@ip-172-31-13-157:~/task5$ git branch -m main
ubuntu@ip-172-31-13-157:~/task5$ git branch
* main
ubuntu@ip-172-31-13-157:~/task5$ git branch test
ubuntu@ip-172-31-13-157:~/task5$ git branch f1
ubuntu@ip-172-31-13-157:~/task5$ git branch f2
ubuntu@ip-172-31-13-157:~/task5$ git brnch
git: 'brnch' is not a git command. See 'git --help'.

The most similar command is
  branch
ubuntu@ip-172-31-13-157:~/task5$ git branch
  f1
  f2
* main
  test
ubuntu@ip-172-31-13-157:~/task5$ 

```

3. Starting from the feature branch, push the branch to the master, following the architecture

Adding and Committing Files in f1 and f2

```

ubuntu@ip-172-31-13-157:~/task5$ git checkout f1
Switched to branch 'f1'
ubuntu@ip-172-31-13-157:~/task5$ touch f1.txt
ubuntu@ip-172-31-13-157:~/task5$ git add .
ubuntu@ip-172-31-13-157:~/task5$ git commit -m'committing f1'
[f1 906ab9c] committing f1
Committer: Ubuntu <ubuntu@ip-172-31-13-157.ap-south-1.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f1.txt
ubuntu@ip-172-31-13-157:~/task5$ 

```

```

ubuntu@ip-172-31-13-157:~/task5$ git checkout f2
Switched to branch 'f2'
ubuntu@ip-172-31-13-157:~/task5$ touch f2.txt
ubuntu@ip-172-31-13-157:~/task5$ git add .
ubuntu@ip-172-31-13-157:~/task5$ git commit -m 'committing f2'
[f2 b609696] committing f2
Committer: Ubuntu <ubuntu@ip-172-31-13-157.ap-south-1.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f2.txt
ubuntu@ip-172-31-13-157:~/task5$ 

```

Merge f1 and f2 into test branch

```

AWS Services Search [Alt+S] Mumbai VaishnaviGohar
ubuntu@ip-172-31-13-157:~/task5$ git checkout test
Switched to branch 'test'
ubuntu@ip-172-31-13-157:~/task5$ git merge f1
Updating cc7f767..906ab9c
Fast-forward
 f1.txt | 0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f1.txt
ubuntu@ip-172-31-13-157:~/task5$ git merge f2
Merge made by the 'ort' strategy.
 f2.txt | 0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f2.txt
ubuntu@ip-172-31-13-157:~/task5$ 

```

Push All Branches to GitHub

```
ubuntu@ip-172-31-13-157:~/task5$ git push https://github.com/Vaishnavi-Golhar/task5.git f1
Username for 'https://github.com': Vaishnavi-Golhar
Password for 'https://github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 255 bytes | 255.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'f1' on GitHub by visiting:
remote:   https://github.com/Vaishnavi-Golhar/task5/pull/new/f1
remote:
To https://github.com/Vaishnavi-Golhar/task5.git
 * [new branch]      f1 -> f1
ubuntu@ip-172-31-13-157:~/task5$
```

```
ubuntu@ip-172-31-13-157:~/task5$ git push https://github.com/Vaishnavi-Golhar/task5.git f2
Username for 'https://github.com': Vaishnavi-Golhar
Password for 'https://github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 256 bytes | 256.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'f2' on GitHub by visiting:
remote:   https://github.com/Vaishnavi-Golhar/task5/pull/new/f2
remote:
To https://github.com/Vaishnavi-Golhar/task5.git
 * [new branch]      f2 -> f2
ubuntu@ip-172-31-13-157:~/task5$
```

```
ubuntu@ip-172-31-13-157:~/task5$ git push https://github.com/Vaishnavi-Golhar/task5.git test
Username for 'https://github.com': Vaishnavi-Golhar
Password for 'https://github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 302 bytes | 302.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'test' on GitHub by visiting:
remote:   https://github.com/Vaishnavi-Golhar/task5/pull/new/test
remote:
To https://github.com/Vaishnavi-Golhar/task5.git
 * [new branch]      test -> test
ubuntu@ip-172-31-13-157:~/task5$
```

Branches

Overview | Yours | Active | Stale | All

Search branches...

Branch	Updated	Check status	Behind	Ahead	Pull request
main	8 minutes ago				Default

Your branches

Branch	Updated	Check status	Behind	Ahead	Pull request
test	now		0	3	
f2	1 minute ago		0	1	
f1	3 minutes ago		0	1	

4. Push a urgent.txt on master using hotfix

Create a hotfix Branch and Add urgent.txt

```
ubuntu@ip-172-31-13-157:~/task5$ git branch
* f1
  f2
  main
  * test
ubuntu@ip-172-31-13-157:~/task5$ git branch hotfix
ubuntu@ip-172-31-13-157:~/task5$ git branch
* f1
  f2
  hotfix
  main
  * test
ubuntu@ip-172-31-13-157:~/task5$ git checkout hotfix
Switched to branch 'hotfix'
ubuntu@ip-172-31-13-157:~/task5$ touch urgent.txt
ubuntu@ip-172-31-13-157:~/task5$ git add .
[hotfix bcc58a9] committing urgent.txt file
Committer: Ubuntu <ubuntu@ip-172-31-13-157.ap-south-1.compute.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 urgent.txt
ubuntu@ip-172-31-13-157:~/task5$
```

Merged hotfix into main

```
ubuntu@ip-172-31-13-157:~/task5$ git push https://github.com/Vaishnavi-Golhar/task5.git hotfix
Username for 'https://github.com': Vaishnavi-Golhar
Password for 'https://Vaishnavi-Golhar@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 266 bytes | 266.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'hotfix' on GitHub by visiting:
remote:   https://github.com/Vaishnavi-Golhar/task5/pull/new/hotfix
remote:
To https://github.com/Vaishnavi-Golhar/task5.git
 * [new branch]   hotfix -> hotfix
ubuntu@ip-172-31-13-157:~/task5$
```

```
ubuntu@ip-172-31-13-157:~/task5$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
ubuntu@ip-172-31-13-157:~/task5$ git merge hotfix
Updating cc7f767..bcc58a9
Fast-forward
 f1.txt | 0
 f2.txt | 0
 urgent.txt | 0
 3 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 f1.txt
 create mode 100644 f2.txt
 create mode 100644 urgent.txt
ubuntu@ip-172-31-13-157:~/task5$
```

Vaishnavi-Golhar / task5

Type to search

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Actions

Projects

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main5 Branches0 Tags

Go to file

Add fileCode

Ubuntu committing urgent.txt filebcc58a9 · 8 minutes ago5 Commits

f1.txtcommitting f124 minutes ago

f2.txtcommitting f223 minutes ago

main.txtcommitting28 minutes ago

urgent.txtcommitting urgent.txt file8 minutes ago

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Branches

New branch

OverviewYoursActiveStaleAll

Search branches...

Default

Branch	Updated	Check status	Behind / Ahead	Pull request
main	now		Default	

Your branches

Branch	Updated	Check status	Behind / Ahead	Pull request
hotfix	4 minutes ago		0 / 0	
test	11 minutes ago		1 / 0	
f2	12 minutes ago		3 / 0	
f1	14 minutes ago		3 / 0	

