

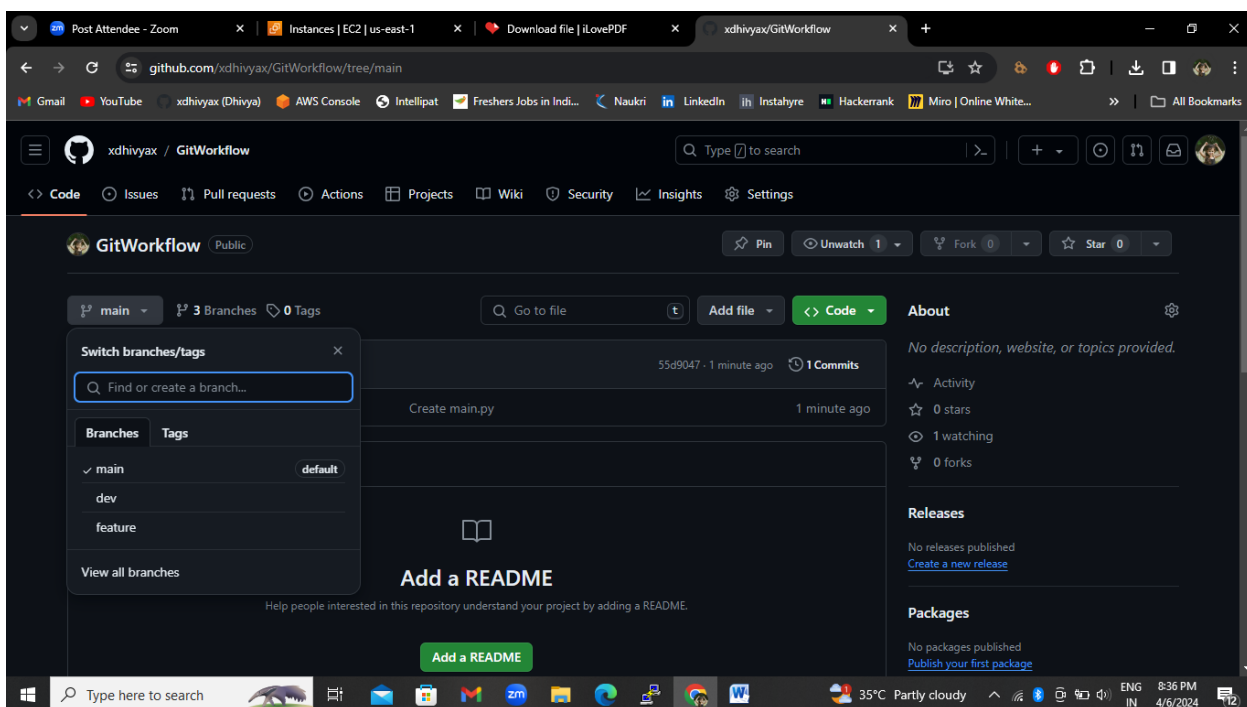
CASE STUDY - GIT WORKFLOW

Problem Statement:

You work as a Devops Architect in Zendriix Softwares. The company has been struggling to manage their product releases. The releases should happen on 25th of every month. Suggest a Git Workflow Architecture for this requirement.

Simulate this workflow, by creating a pseudo code files and branches, and upload the same to your GitHub Account.

As a part of solution, share the link to your GitHub repository.



```
ubuntu@ip-172-31-46-46: ~/assignment/GitWorkflow
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ git branch
  dev
  feature
* main
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$
```

Developer work on feature branch

```
ubuntu@ip-172-31-46-46: ~/assignment/GitWorkflow
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ git checkout feature
Switched to branch 'feature'
Your branch is up to date with 'origin/feature'.
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ ls
main.py
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ vi main.py
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ cat main.py
print("Hello world")
print("New feature is added")
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ git add .
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ git commit -m "New feature is added ny feature branch"
[feature ad587f5] New feature is added ny feature branch
Committer: Ubuntu <ubuntu@ip-172-31-46-46.ec2.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, 1 insertion(+)
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$
```

```
ubuntu@ip-172-31-46-46: ~/assignment/GitWorkflow
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ git branch
  dev
* feature
  main
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ git push origin feature
Username for 'https://github.com': xdhivyax
Password for 'https://xdhivyax@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 311 bytes | 311.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/xdhivyax/GitWorkflow.git
  55d9047..ad587f5  feature -> feature
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$
```

On 25th of every month, merge the updated code from feature branch to dev

```
ubuntu@ip-172-31-46-46: ~/assignment/GitWorkflow
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ git checkout dev
Switched to branch 'dev'
Your branch is up to date with 'origin/dev'.
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ git branch
* dev
  feature
  main
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ git merge feature
Updating 55d9047..ad587f5
Fast-forward
  main.py | 1 +
  1 file changed, 1 insertion(+)
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ cat main.py
print("Hello world")
print("New feature is added")
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ git add main.py
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ git commit -m "Merge the code from feature branch"
On branch dev
Your branch is ahead of 'origin/dev' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$
```

```
ubuntu@ip-172-31-46-46: ~/assignment/GitWorkflow
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ git push origin dev
Username for 'https://github.com': xdhivyax
Password for 'https://xdhivyax@github.com':
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/xdhivyax/GitWorkflow.git
 55d9047..ad587f5  dev -> dev
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$
```

After reviewing the code, push the changes to main branch

```
ubuntu@ip-172-31-46-46: ~/assignment/GitWorkflow
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ git branch
  dev
  feature
* main
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ git merge dev
Updating 55d9047..ad587f5
Fast-forward
 main.py | 1 +
 1 file changed, 1 insertion(+)
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ cat main.py
print("Hello world")
print("New feature is added")
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ git add main.py
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ git commit -m "Reviw the code and push it production"
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$
```

```
ubuntu@ip-172-31-46-46: ~/assignment/GitWorkflow
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$ git push origin main
Username for 'https://github.com': xdhiwyax
Password for 'https://xdhiwyax@github.com':
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/xdhiwyax/GitWorkflow.git
 55d9047..ad587f5  main -> main
ubuntu@ip-172-31-46-46:~/assignment/GitWorkflow$
```

REPO LINK : <https://github.com/xdhiwyax/GitWorkflow>

