Q1) Git Branching Strategy

Branching strategy:

A Git branching strategy helps organize work on a project by using different branches for different purposes. Here's a common and simple one:

1)main Branch:

- This is the production-ready branch.
- Code here is always stable and deployable.

2)developer Branch:

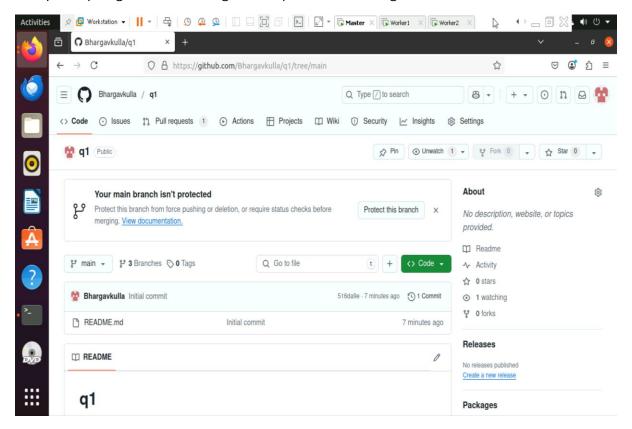
- This branch is used to merge all features under development.
- Acts as an integration branch for all new features before they are pushed to main.

3) feature Branches:

- These are individual branches for each new feature or bug fix.
- Created from the developer branch.
- Developers work on these branches independently, then merge back into developer when the feature is complete.

Create a repository

Gitrepo: https://github.com/Bhargavkulla/q1/tree/feature/login



Create the branching strategy as mentioned above

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                                                                                                   master@master-vm: ~/Desktop/q1
       master@master-vm:~/Desktop/retest-jenkins-15 cd ..
        aster@master-vm:~/Desktop$ git clone https://github.com/Bhargavkulla/q1.git
     Cloning into 'q1'...
      remote: Enumerating objects: 3, done.
      remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 856 bytes | 856.00 KiB/s, done.
master@master-vm:~/Desktop$ cd q1
       master@master-vm:~/Desktop/q1$ git checkout -b developer main
      Switched to a new branch 'developer
      master@master-vm:~/Desktop/q1$ git push -u origin developer
      Username for 'https://github.com': Bhargavkulla
      Password for 'https://%0Dgit%20checkout%20-b%20feature%2Flogin%20developer%0Dgit%20push%20-u%20origin%20feature%2Flogin%0DBhargavkul
      la@github.com':
      Total 0 (delta 0), reused 0 (delta 0)
      remote:
      remote: Create a pull request for 'developer' on GitHub by visiting:
      remote:
                  https://github.com/Bhargavkulla/q1/pull/new/developer
      remote:
      To https://github.com/Bhargavkulla/q1.git
       * [new branch]
                        developer -> developer
      Branch 'developer' set up to track remote branch 'developer' from 'origin'.
      master@master-vm:~/Desktop/q1$ git checkout -b feature/login developer Switched to a new branch 'feature/login'
        ster@master-vm:~/Desktop/q1$ git push -u origin feature/login
     Username for 'https://github.com': Bhargavkulla
Password for 'https://Bhargavkulla@github.com':
      Total 0 (delta 0), reused 0 (delta 0)
      remote: Create a pull request for 'feature/login' on GitHub by visiting:
                  https://github.com/Bhargavkulla/q1/pull/new/feature/login
      remote:
      To https://github.com/Bhargavkulla/q1.git
       * [new branch]
                        feature/login -> feature/login
     Branch 'feature/login' set up to track remote branch 'feature/login' from 'origin'.
              ester-vm:~/Desktop/q1$ echo "This is a sample login feature." > login.txt
master@master-vm:~/Desktop/q1$ echo "This is a sample login feature." > login.txt
master@master-vm:~/Desktop/q1$ git add login.txt
master@master-vm:~/Desktop/q1$ git commit -m "Add login.txt for login feature"
[feature/login c34f7f0] Add login.txt for login feature
 1 file changed, 1 insertion(+)
 create mode 100644 login.txt
master@master-vm:~/Desktop/q1$ git push
Username for 'https://github.com': Bhargavkulla
Password for 'https://Bhargavkulla@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 325 bytes | 325.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/Bhargavkulla/q1.git
    516da9e..c34f7f0 feature/login -> feature/login
master@master-vm:~/Desktop/q1$
```

Git repo branching strategy

