



Experiment -1.3

Student Name: Shubham Kumar

Branch: CSE(DevOps)

Semester: 4th

Subject Name: Git and GitHub

UID: 22BDO10033

Section/Group: 22BCD-1/A

Date of Performance:31/01/24

Subject Code: 22CHS-293

1. Aim/Overview of the practical: To create and explore Pull request

2. Task to be done: - Create and explore push and pull request.

3. Steps for experiment/practical:

1. Create a new file : - Open git bash, first configure after that create a new file.

```
MINGW64/c/Users/Shubham/exp3/ext-3
Shubham@DESKTOP-JHPLKQP MINGW64 ~
$ mkdir exp3
Shubham@DESKTOP-JHPLKQP MINGW64 ~
$ cd exp3
Shubham@DESKTOP-JHPLKQP MINGW64 ~/exp3
$ git clone
fatal: You must specify a repository to clone.
usage: git clone [<options>] [--] <repo> [<dir>]

-v, --[no-]verbose      be more verbose
-q, --[no-]quiet        be more quiet
--[no-]progress         force progress reporting
--[no-]reject-shallow   don't clone shallow repository
-n, --no-checkout       don't create a checkout
--checkout              opposite of --no-checkout
--[no-]bare             create a bare repository
--[no-]mirror           create a mirror repository (implies bare)
-l, --[no-]local        to clone from a local repository
--no-hardlinks          don't use local hardlinks, always copy
--hardlinks            opposite of --no-hardlinks
-s, --[no-]shared       setup as shared repository
--[no-]recurse-submodules[=<pathspec>]
                        initialize submodules in the clone
--[no-]recursive ...   alias of --recurse-submodules
-j, --[no-]jobs <n>    number of submodules cloned in parallel
--[no-]template <template-directory>
```

2. Use Git Clone: - Use Git Clone command to clone the Repository.

```
MINGW64/c/Users/Shubham/exp3/ext-3
Shubham@DESKTOP-JHPLKQP MINGW64 ~
$ mkdir exp3
Shubham@DESKTOP-JHPLKQP MINGW64 ~
$ cd exp3
Shubham@DESKTOP-JHPLKQP MINGW64 ~/exp3
$ git clone
fatal: You must specify a repository to clone.
usage: git clone [<options>] [--] <repo> [<dir>]

-v, --[no-]verbose      be more verbose
-q, --[no-]quiet        be more quiet
--[no-]progress         force progress reporting
--[no-]reject-shallow   don't clone shallow repository
-n, --no-checkout       don't create a checkout
--checkout              opposite of --no-checkout
--[no-]bare             create a bare repository
--[no-]mirror           create a mirror repository (implies bare)
-l, --[no-]local        to clone from a local repository
--no-hardlinks          don't use local hardlinks, always copy
--hardlinks             opposite of --no-hardlinks
-s, --[no-]shared       setup as shared repository
--[no-]recurse-submodules[=<pathspec>]
                        initialize submodules in the clone
--[no-]recursive ...   alias of --recurse-submodules
-j, --[no-]jobs <n>    number of submodules cloned in parallel
--[no-]template <template-directory>
```

3. Create a pull request: - Create a file in the master or main branch, eg.

```
MINGW64/c/Users/Shubham/exp3/ext-3
a URI for downloading bundles before fetching from origin remote
Shubham@DESKTOP-JHPLKQP MINGW64 ~/exp3
$ cd new-github
bash: cd: new-github: No such file or directory
Shubham@DESKTOP-JHPLKQP MINGW64 ~/exp3
$ ls
Shubham@DESKTOP-JHPLKQP MINGW64 ~/exp3
$ touch file1 file2
Shubham@DESKTOP-JHPLKQP MINGW64 ~/exp3
$ ls
file1 file2
Shubham@DESKTOP-JHPLKQP MINGW64 ~/exp3
$ git add file1.txt
fatal: not a git repository (or any of the parent directories): .git
Shubham@DESKTOP-JHPLKQP MINGW64 ~/exp3
$ git clone ^[[200~https://github.com/ShubhamKumar-S/ext-3.git~
Cloning into 'ext-3.git'...
fatal: protocol '?[200~https' is not supported
Shubham@DESKTOP-JHPLKQP MINGW64 ~/exp3
$ git clone https://github.com/ShubhamKumar-S/ext-3.git
Cloning into 'ext-3'...
remote: Enumerating objects: 3, done.
```

4. Merge the pull request: - After the pull request is reviewed and approved, you can merge it. Click on the "Merge pull request" button, confirm the merge. **Git merge <branch_name>**

```
priya@DESKTOP-4DJGP4B MINGW64 ~/a2 (main)
$ git merge test
Already up to date.
```

5. Create a push request : - Now, push your changes in the master and test branch to the remote repository.

```
Shubham@DESKTOP-3HPLKQP MINGW64 ~/exp3/ext-3 (main)
$ git commit -m "file1 committed"
[main 4ddf56c] file1 committed
1 file changed, 1 insertion(+)
create mode 100644 file1.txt

Shubham@DESKTOP-3HPLKQP MINGW64 ~/exp3/ext-3 (main)
$ git add file2.txt

Shubham@DESKTOP-3HPLKQP MINGW64 ~/exp3/ext-3 (main)
$ git commit -m "file2 committed"
[main 00323e5] file2 committed
1 file changed, 1 insertion(+)
create mode 100644 file2.txt

Shubham@DESKTOP-3HPLKQP MINGW64 ~/exp3/ext-3 (main)
$ git push
info: please complete authentication in your browser...
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 12 threads
Compressing objects: 100% (4/4), done.
writing objects: 100% (6/6), 540 bytes | 540.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/ShubhamKumar-S/ext-3.git
b4a5254..00323e5  main -> main

Shubham@DESKTOP-3HPLKQP MINGW64 ~/exp3/ext-3 (main)
$ git push
```

- ➔ Now, Go to github open the repository and move to the test branch and make some changes in a file.
- ➔ Now Commit the changes and move to the master branch. Click on the the Compare & pull request.

```
MINGW64/c:/Users/Shubham/exp3/ext-3
$ vi file3.txt

Shubham@DESKTOP-JHPLKQP MINGW64 ~/exp3/ext-3 (branch1)
$ git add file3.txt

Shubham@DESKTOP-JHPLKQP MINGW64 ~/exp3/ext-3 (branch1)
$ git commit -m "file3 committed"
[branch1 08b2d8a] file3 committed
1 file changed, 1 insertion(+)
create mode 100644 file3.txt

Shubham@DESKTOP-JHPLKQP MINGW64 ~/exp3/ext-3 (branch1)
$ git push --set-upstream origin branch1
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 341 bytes | 341.00 KiB/s, done.
Total 3 (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 'branch1' on GitHub by visiting:
remote:   https://github.com/ShubhamKumar-S/ext-3/pull/new/branch1
remote:
To https://github.com/ShubhamKumar-S/ext-3.git
 * [new branch]      branch1 -> branch1
branch 'branch1' set up to track 'origin/branch1'.

Shubham@DESKTOP-JHPLKQP MINGW64 ~/exp3/ext-3 (branch1)
$
```

Commits

main

Commits on Jan 31, 2024

- file2 committed** 00323e5
sshubhamkumar63@gmail.com committed last week
- file1 committed** 4ddf56c
sshubhamkumar63@gmail.com committed last week
- Create exp 3.1** Verified b4a5254
ShubhamKumar-S committed last week

Result: - We have created and explored the pull requests. We have created a new branch, made some changes in the files in that new branch and then merged the changes with the Main branch using both Git and GitHub



Learning outcomes (What I have learnt):

1. Learn how to create a branch.
2. Learnt hoe to push the changes to the remote repository.
3. Learn hoe to pull the changes from the remote repository.
4. Learnt to merge two branches.
5. Learn how to resolve merge conflicts.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			