

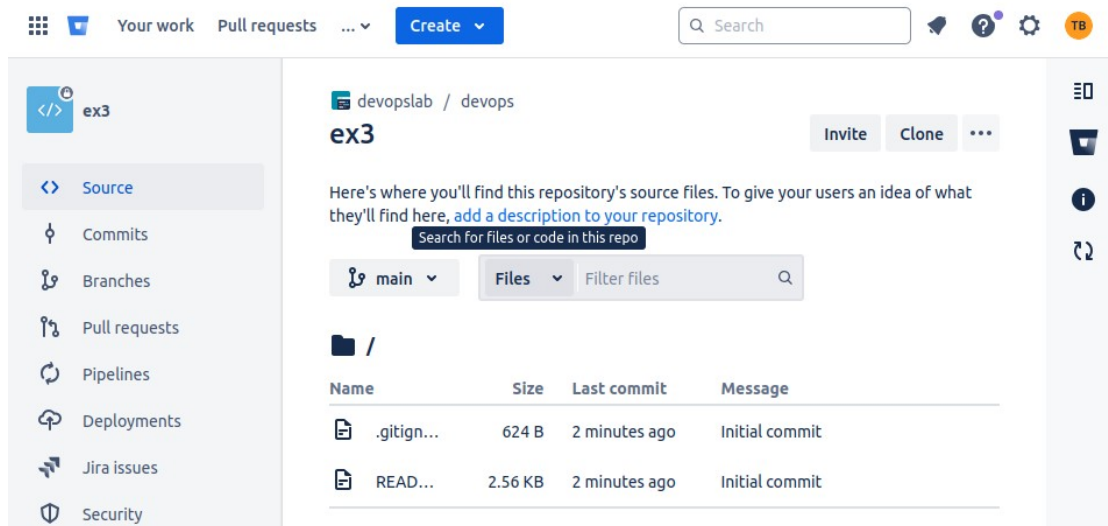
Implement BitBucket Operations using Git

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IoT-B

1. Creating a Repository



2. Cloning a Repository

- Use **git clone <repository_url>** with the URL you copied from Bitbucket.

```
trisha@trisha-IdeaPad-5-15ITL05:~/Documents/Sem 7/DOLAB/Exercise 3$ git clone https://ex31-admin@bitbucket.org/ex31/ex3.git
Cloning into 'ex3'...
Password for 'https://ex31-admin@bitbucket.org':
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (4/4), done.
```

3. Making Changes and Creating a Branch

- Navigate into the cloned repository
- Create a new text file named "filename.txt" using a text editor.
- Add some content to the " filename.txt" file.
- Save the file and return to the command line.
- Check the status of the repository

```
trisha@trisha-IdeaPad-5-15ITL05:~/Documents/Sem 7/DOLAB/Exercise 3$ cd ex3
trisha@trisha-IdeaPad-5-15ITL05:~/Documents/Sem 7/DOLAB/Exercise 3/ex3$ nano filename.txt
trisha@trisha-IdeaPad-5-15ITL05:~/Documents/Sem 7/DOLAB/Exercise 3/ex3$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  filename.txt

nothing added to commit but untracked files present (use "git add" to track)
```

- f. Stage the changes for commit
- g. Commit the changes with a descriptive message
"Edited_example.txt"

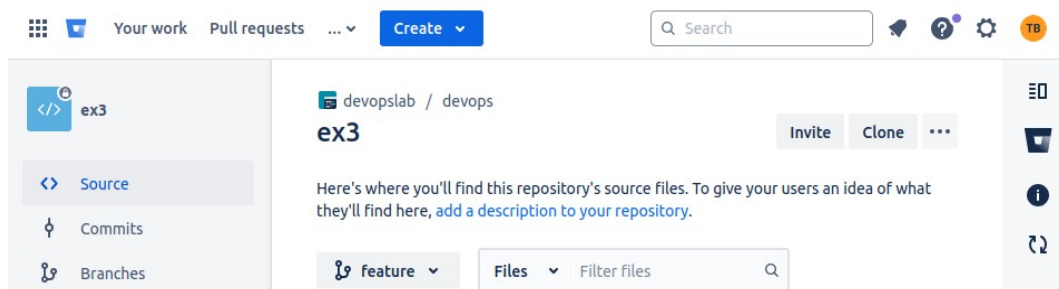
```
trisha@trisha-IdeaPad-5-15ITL05:~/Documents/Sem 7/DOLAB/Exercise 3/ex3$ git add filename.txt
trisha@trisha-IdeaPad-5-15ITL05:~/Documents/Sem 7/DOLAB/Exercise 3/ex3$ git commit -m "Edited filename.txt"
[main 755f19e] Edited filename.txt
1 file changed, 1 insertion(+)
create mode 100644 filename.txt
```

- h. Create a new branch named "feature"
- i. Switch to the "feature" branch
- j. Pushing Changes to Bitbucket

```
trisha@trisha-IdeaPad-5-15ITL05:~/Documents/Sem 7/DOLAB/Exercise 3/ex3$ git branch feature
trisha@trisha-IdeaPad-5-15ITL05:~/Documents/Sem 7/DOLAB/Exercise 3/ex3$ git checkout feature
Switched to branch 'feature'
trisha@trisha-IdeaPad-5-15ITL05:~/Documents/Sem 7/DOLAB/Exercise 3/ex3$ repo_url=https://ex31-admin@bitbucket.org/ex31/ex3.git
trisha@trisha-IdeaPad-5-15ITL05:~/Documents/Sem 7/DOLAB/Exercise 3/ex3$ git push -u origin feature
Password for 'https://ex31-admin@bitbucket.org':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 338 bytes | 338.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create pull request for feature:
remote:   https://bitbucket.org/ex31/ex3/pull-requests/new?source=feature&t=1
remote:
To https://bitbucket.org/ex31/ex3.git
 * [new branch]   feature -> feature
Branch 'feature' set up to track remote branch 'feature' from 'origin'.
```

4. Pushing Changes to Bitbucket

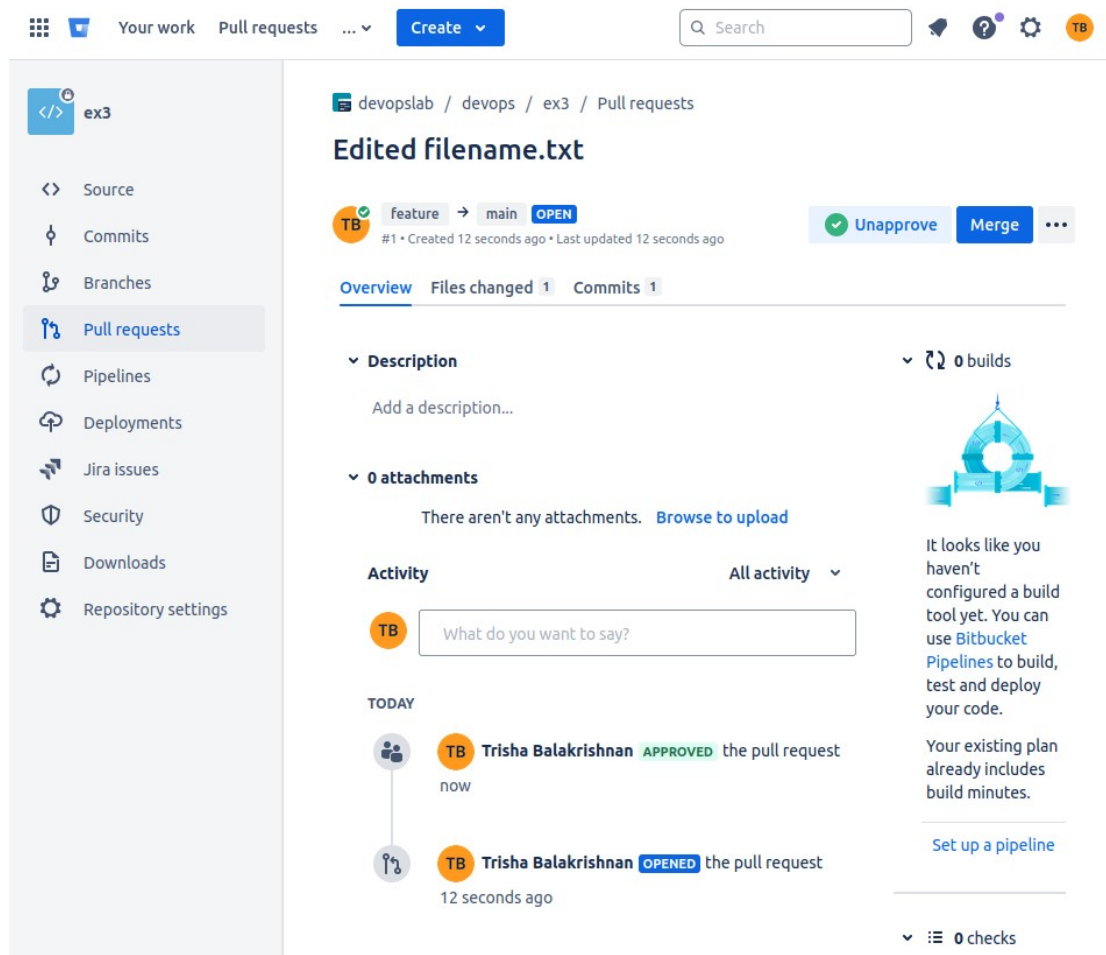
- a. Add Repository URL in a variable
- b. Replace <repository_url> with the URL you copied from Bitbucket
- c. Push the "feature" branch to Bitbucket
- d. Check your Bitbucket repository to confirm that the new branch "feature" is available.



5. Collaborating through Pull Requests

- a. Create a pull request on Bitbucket:
 - i. Go to the repository on Bitbucket.
 - ii. Click on "Create pull request."
 - iii. Choose the source branch ("feature") and the target branch ("main" or

- iv. "master").
- v. Review the changes and click "Create pull request."
- b. Review and merge the pull request:
 - i. Add a title and description for the pull request.
 - ii. Assign reviewers if needed.
 - iii. Once the pull request is approved, merge it into the target branch.



6. Syncing Changes

- a. After the pull request is merged, update your local repository

```
trisha@trisha-IdeaPad-5-15ITL05:~/Documents/Sem 7/DOLAB/Exercise 3/ex3$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)
trisha@trisha-IdeaPad-5-15ITL05:~/Documents/Sem 7/DOLAB/Exercise 3/ex3$ git pull origin main
Password for 'https://ex31-admin@bitbucket.org':
From https://bitbucket.org/ex31/ex3
* branch      main      -> FETCH_HEAD
Already up to date.
trisha@trisha-IdeaPad-5-15ITL05:~/Documents/Sem 7/DOLAB/Exercise 3/ex3$
```