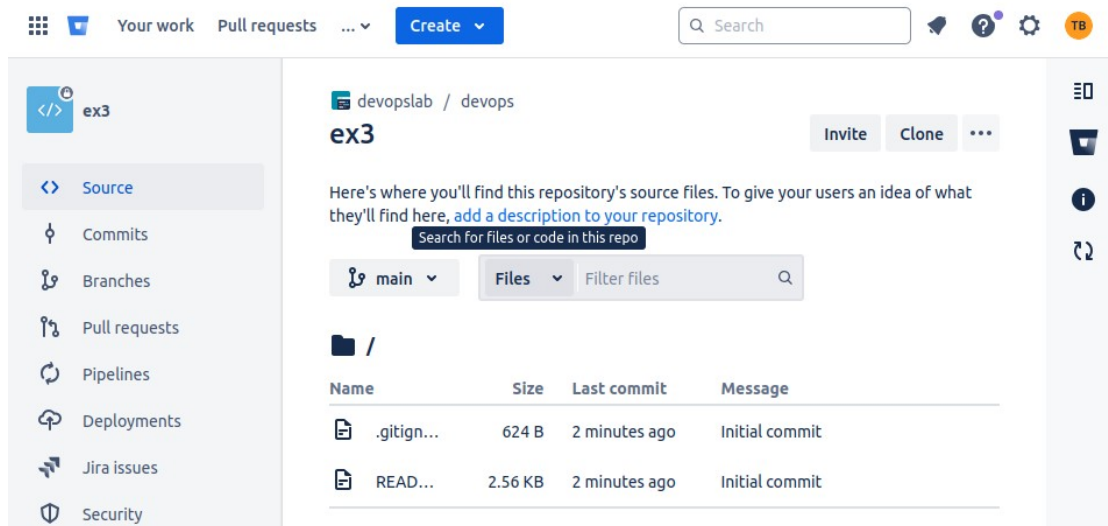# Implement BitBucket Operations using Git

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IoT-B

1. Creating a Repository

2. Cloning a Repository
    a. Use ***git clone <repository_url>*** with the URL you copied from Bitbucket.

3. Making Changes and Creating a Branch
    a. Navigate into the cloned repository
    b. Create a new text file named "filename.txt" using a text editor.
    c. Add some content to the " filename.txt" file.
    d. Save the file and return to the command line.
    e. Check the status of the repository

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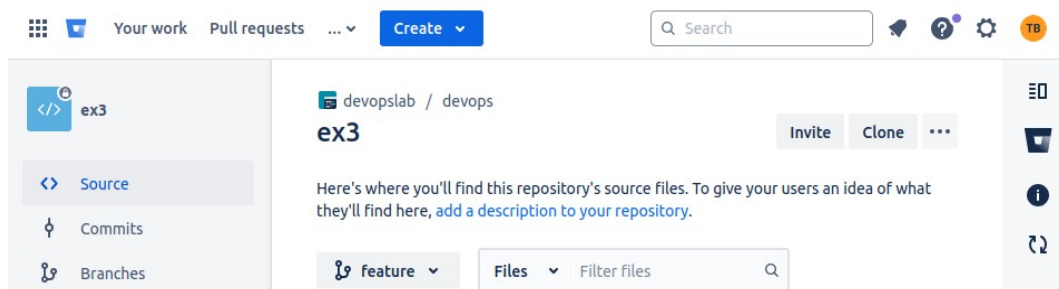g. Commit the changes with a descriptive message *"Edited_example.txt"*

```
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.tx
t"
[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@bitbu
cket.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'.
```
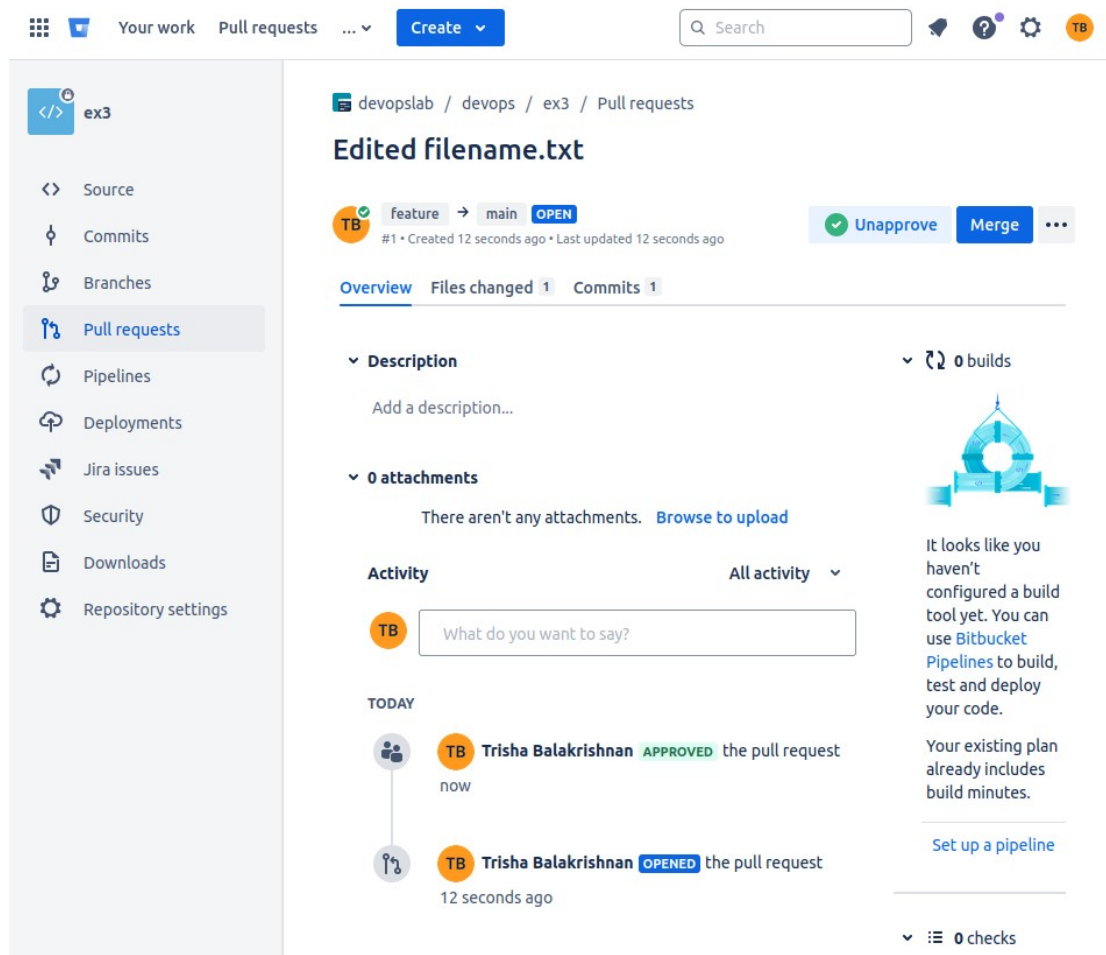
4. Pushing Changes to Bitbucket
   a. Add Repository URL in a variable
   b. Replace <repository_url> with the URL you copied from Bitbucket
   c. Push the "feature" branch to Bitbucket
   d. Check your Bitbucket repository to confirm that the new branch "feature" is available.

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