

## Experiment No. 4

### Title: Implement BitBucket Operations using Git.


#### Step 1: Creating a Repository

bitbucket.org/prasadpk/workspace/create/repository

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PreferencesOnly necessary

Create a new repositoryImport repository

Workspace  prasadpk

Project name\*

Repository name\*


Access level ☒ Private repository  
Uncheck to make this repository public. Public repositories typically contain open-source code and can be viewed by anyone.

Include a README? Yes, with a tutorial (for beginne...

Default branch name


Include .gitignore? Yes (recommended)

[Advanced settings](#)


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Project-Repo

Here's where you'll find this repository's source files. To give your users an idea of what they'll find here, [add a description to your repository](#).

 main

Files  Filter files

 /

Name	Size	Last commit	Message
 .gitignore	624 B	21 seconds ago	Initial commit
 README.md	2.56 KB	21 seconds ago	Initial commit

README.md

**Edit a file, create a new file, and clone from Bitbucket in under 2 minutes**

When you're done, you can delete the content in this README and update the file with details for others getting started with your repository.

We recommend that you open this README in another tab as you perform the tasks below. You can [watch our video](#) for a full demo of all the steps in this tutorial. Open the video in a new tab to avoid leaving Bitbucket.

Edit a file

## Step 2: Cloning the Repository

Navigate to the directory where you want to clone the repository:

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 ~ (master)
$ cd d:

VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d
$ cd Local-Repo
```

Copy the repository URL from Bitbucket & command to clone the repository to your local machine :

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/Local-Repo
$ git clone https://kabadepasad9@bitbucket.org/prasadpk/project-repo.git
Cloning into 'project-repo'...
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.
```

Name	Date modified	Type	Size
project-repo	10/16/2024 5:06 PM	File folder	

## Step 3: Making Changes and Creating a Branch

Navigate into the cloned repository:

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/Local-Repo
$ cd project-repo

VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/Local-Repo/project-repo (main)
$ |
```

Create a new text file named example.txt using a text editor :

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/Local-Repo/project-repo (main)
$ nano example1.txt

VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/Local-Repo/project-repo (main)
$ nano example2.txt

VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/Local-Repo/project-repo (main)
$ nano example3.txt

VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/Local-Repo/project-repo (main)
$ |
```

Check the status of the repository:

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/Local-Repo/project-repo (main)
$ 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)
        example2.txt
        example3.txt

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

Stage the changes for commit:

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/Local-Repo/project-repo (main)
$ git add example2.txt
warning: in the working copy of 'example2.txt', LF will be replaced by CRLF the next time Git touches it

VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/Local-Repo/project-repo (main)
$ git add example3.txt
warning: in the working copy of 'example3.txt', LF will be replaced by CRLF the next time Git touches it
```

Commit the changes with a descriptive message

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/Local-Repo/project-repo (main)
$ git commit -m "Adding content "
[main c35f816] Adding content
2 files changed, 2 insertions(+)
create mode 100644 example2.txt
create mode 100644 example3.txt
```

Create a new branch named feature:

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/Local-Repo/project-repo (main)
$ git branch feature
```

Switch to the "feature" branch:

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/Local-Repo/project-repo (main)
$ git checkout feature
Switched to branch 'feature'
```


Step 4: Pushing Changes to Bitbucket Add the repository URL as a remote:

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/Local-Repo/project-repo (feature)
$ git remote add origin https://kabadepasad9@bitbucket.org/prasadpk/project-repo.git
error: remote origin already exists.
```

Push the "feature" branch to Bitbucket:

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/Local-Repo/project-repo (feature)
$ git push origin feature
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 386 bytes | 193.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create pull request for feature:
remote:   https://bitbucket.org/prasadpk/project-repo/pull-requests/new?source=feature&t=1
remote:
To https://bitbucket.org/prasadpk/project-repo.git
 * [new branch]      feature -> feature
```

```
// Branch : feature
```


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Project-Repo

Invite

Clone

...

Here's where you'll find this repository's source files. To give your users an idea of what they'll find here, [add a description to your repository](#).






feature

Files

Filter files

Q

/

Name	Size	Last commit	Message
 .gitignore	624 B	18 minutes ago	Initial commit
 README.md	2.56 KB	18 minutes ago	Initial commit
 example2.txt	14 B	5 minutes ago	Adding content
 example3.txt	18 B	5 minutes ago	Adding content

README.md

### Step 5: Collaborating through Pull Requests Create a pull request on Bitbucket:

Your workPull requestsRepositoriesProjectsMore▼Create ▼

Q Search

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Create a Pull Request

Source Branch

🔗 feature ▼

→

Destination Branch

🔗 main ▼

Title \*

Adding content

Description

Normal text ▼ | **B** | *I* | ... | :≡ | ≡: | 🔗 | 📁 | @ | ☺ | 📱 | <> | ” | + ▼ | ✖

Reviewers

Add reviewers

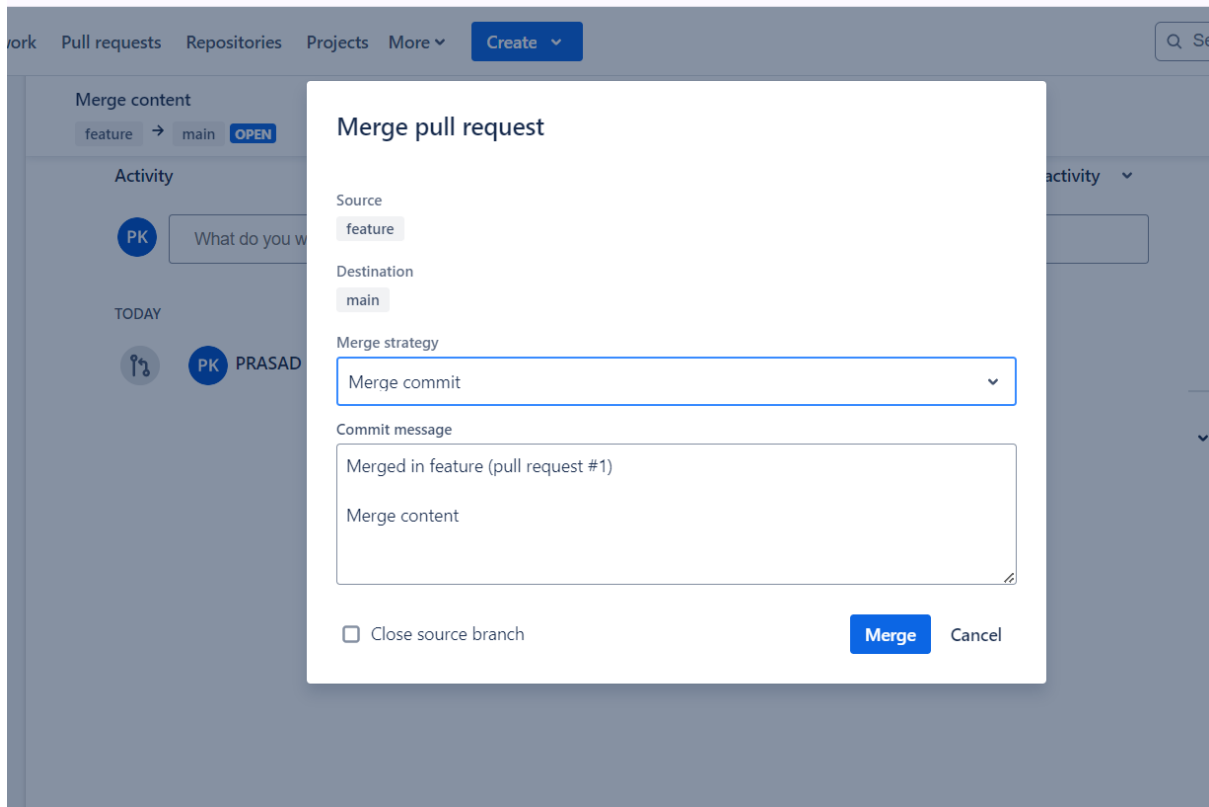
Delete branch

☐ Delete feature after the pull request is merged

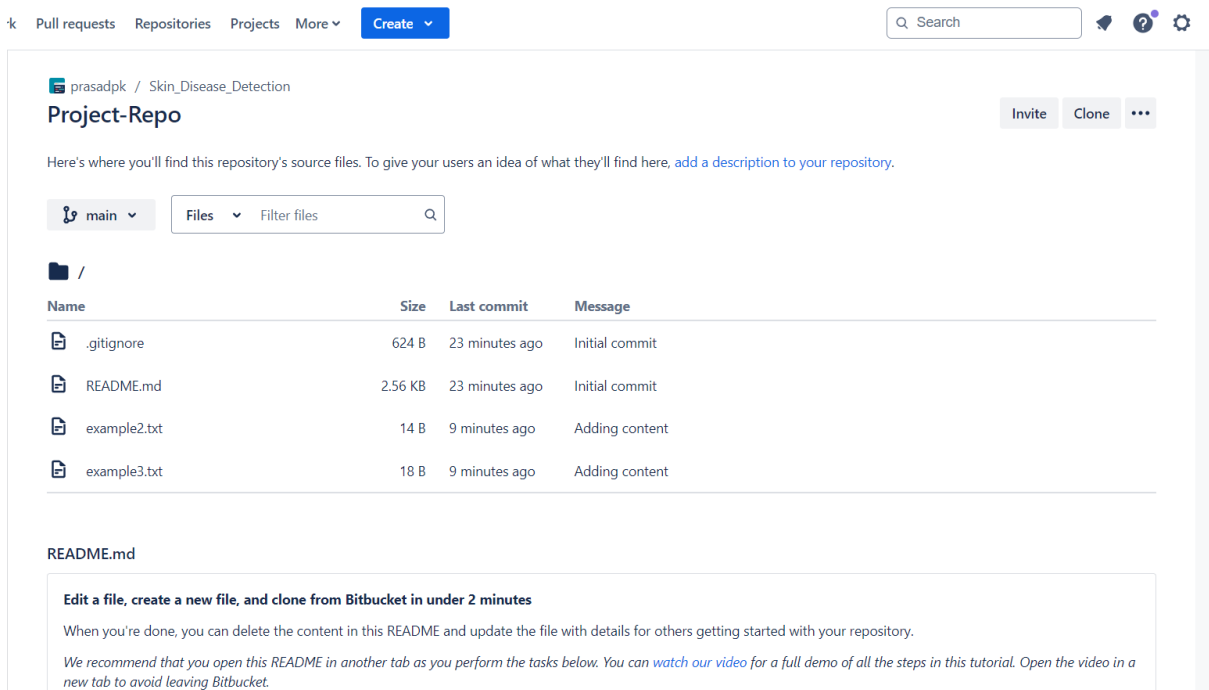
Create pull request

1 commit

## Review and merge the pull request:



## // Branch : main

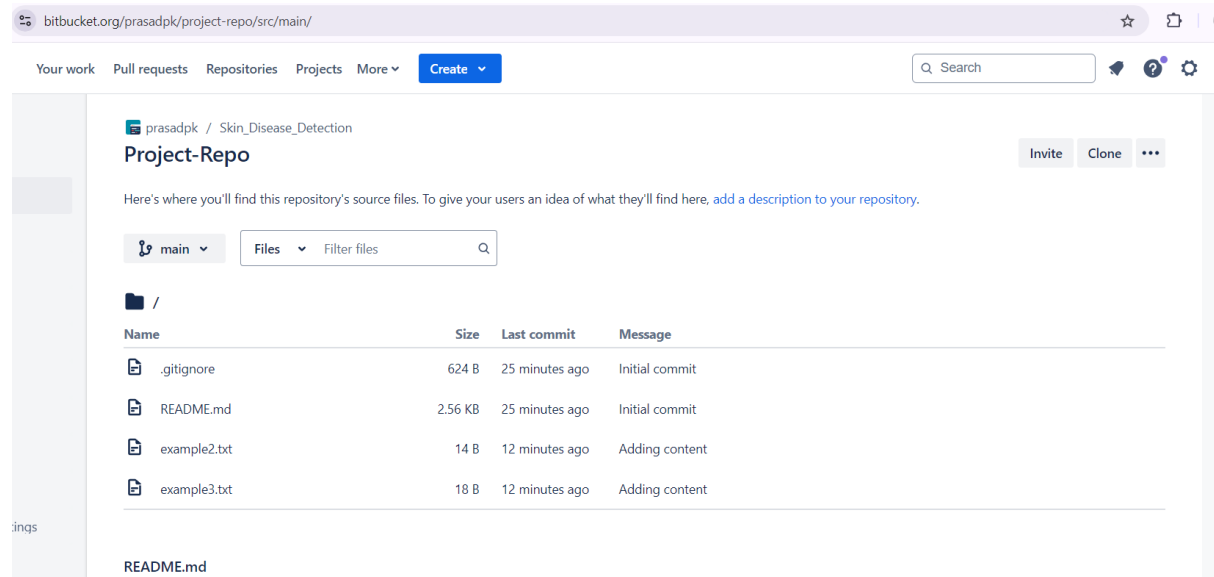


## Step 6: Syncing Changes After the pull request is merged, update your local repository :

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/Local-Repo/project-repo (feature)
$ 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)
```

```
VICTUS@LAPTOP-KQ3G1MA9 MINGW64 /d/Local-Repo/project-repo (main)
$ git pull origin main
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (1/1), 226 bytes | 75.00 KiB/s, done.
From https://bitbucket.org/prasadpk/project-repo
* branch      main      -> FETCH_HEAD
   9ae5914..6399bf1 main  -> origin/main
Updating c35f816..6399bf1
Fast-forward
```

This will pull the latest changes from the remote main branch to your local repository



bitbucket.org/prasadpk/project-repo/src/main/





Your work Pull requests Repositories Projects More [Create](#) Search

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main Files Filter files

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