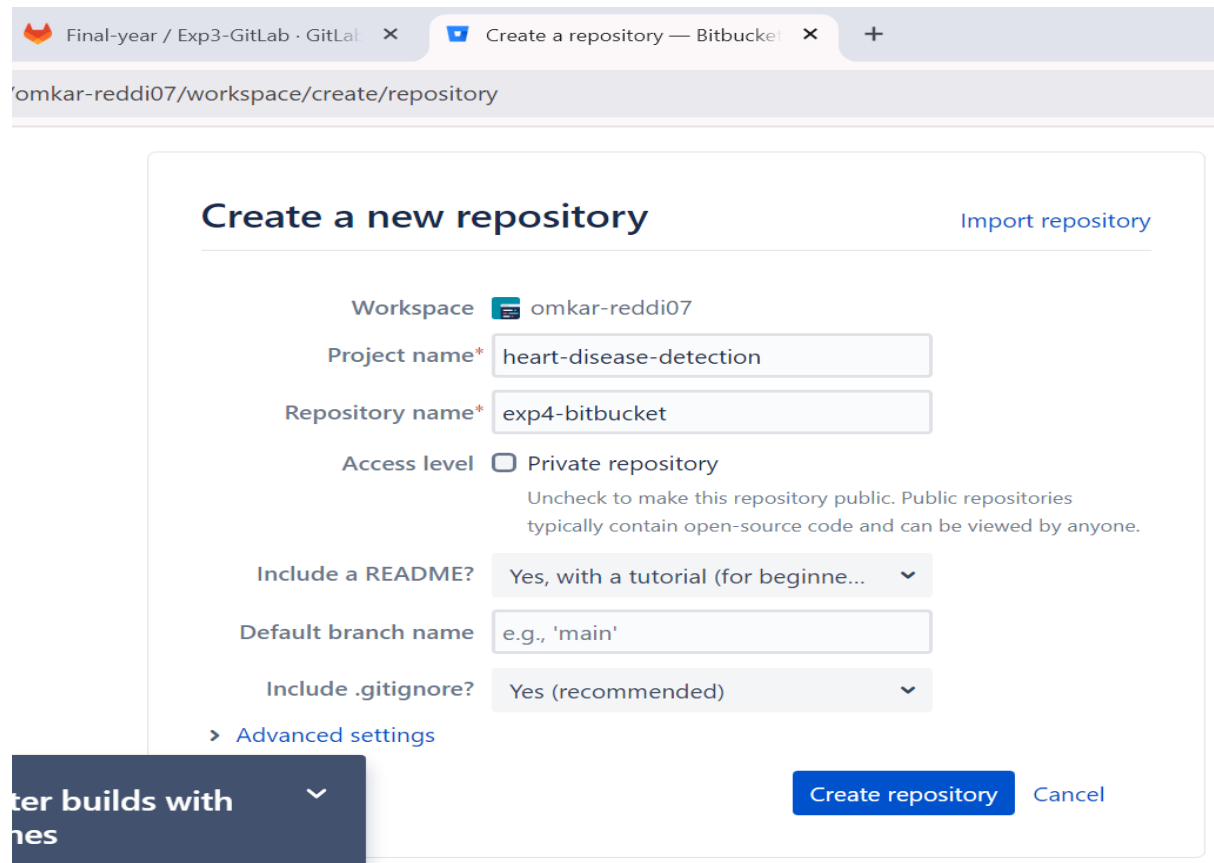



Experiment No. 4

Title: Implement BitBucket Operations using Git.

Step 1: Creating a Repository



The screenshot shows the Bitbucket web interface for creating a new repository. The browser tabs show 'Final-year / Exp3-GitLab · GitLab' and 'Create a repository — Bitbucket'. The URL is 'omkar-reddi07/workspace/create/repository'. The form is titled 'Create a new repository' with a link to 'Import repository'. The workspace is 'omkar-reddi07'. The project name is 'heart-disease-detection' and the repository name is 'exp4-bitbucket'. The access level is set to 'Private repository' (unchecked). The 'Include a README?' dropdown is set to 'Yes, with a tutorial (for beginne...'. The 'Default branch name' is 'e.g., 'main''. The 'Include .gitignore?' dropdown is set to 'Yes (recommended)'. There is a link for '> Advanced settings'. At the bottom, there is a 'Create repository' button and a 'Cancel' button. A dark blue box on the left contains the text 'ater builds with' and 'nes'.

Workspace  omkar-reddi07

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.

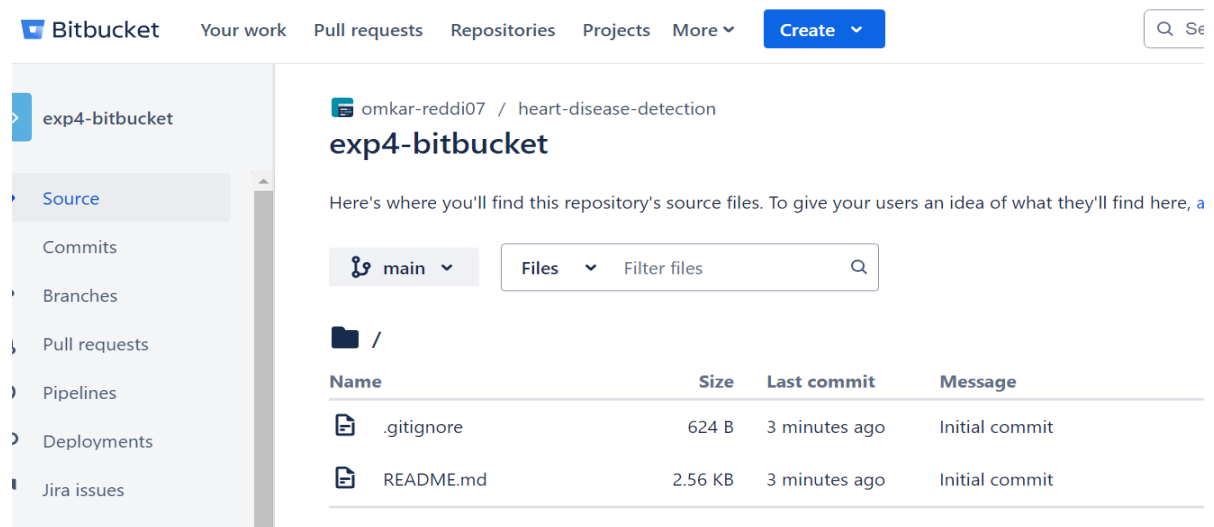
Include a README? Yes, with a tutorial (for beginne...

Default branch name



Include .gitignore? Yes (recommended)

> Advanced settings

Create repository Cancel



The screenshot shows the Bitbucket repository page for 'exp4-bitbucket'. The top navigation bar includes 'Bitbucket', 'Your work', 'Pull requests', 'Repositories', 'Projects', 'More', and a 'Create' button. The left sidebar shows the repository name 'exp4-bitbucket' and a list of options: 'Source', 'Commits', 'Branches', 'Pull requests', 'Pipelines', 'Deployments', and 'Jira issues'. The main content area shows the repository name 'exp4-bitbucket' and a description: 'Here's where you'll find this repository's source files. To give your users an idea of what they'll find here, a'. Below this is a 'main' branch selector and a 'Files' filter. A table lists the repository files:

Name	Size	Last commit	Message
 .gitignore	624 B	3 minutes ago	Initial commit
 README.md	2.56 KB	3 minutes ago	Initial commit

Step 2: Cloning the Repository

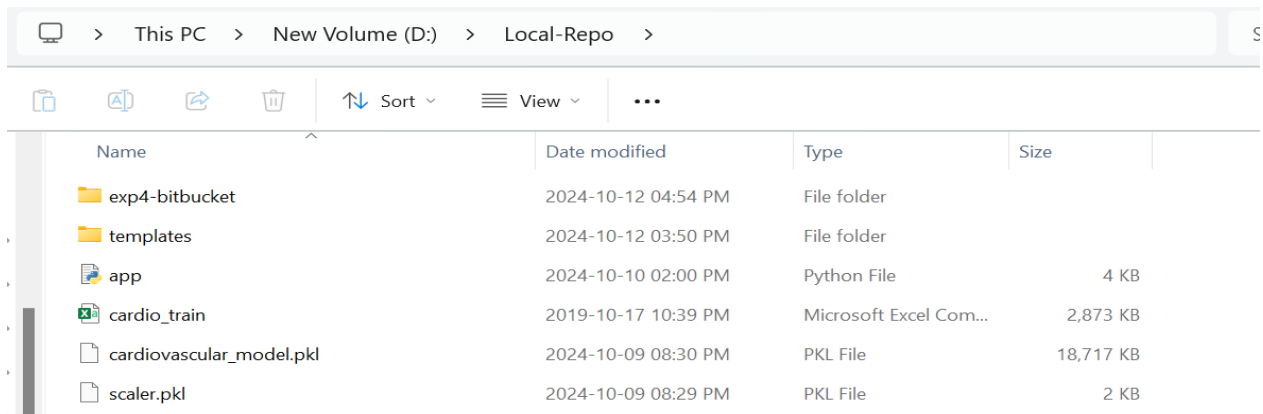
Navigate to the directory where you want to clone the repository:

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d
$ cd Local-Repo

OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo (master)
$ |
```

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

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo (master)
$ git clone https://omkar-reddi07-admin@bitbucket.org/omkar-reddi07/exp4-bitbucket.git
Cloning into 'exp4-bitbucket'...
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
exp4-bitbucket	2024-10-12 04:54 PM	File folder	
templates	2024-10-12 03:50 PM	File folder	
app	2024-10-10 02:00 PM	Python File	4 KB
cardio_train	2019-10-17 10:39 PM	Microsoft Excel Com...	2,873 KB
cardiovascular_model.pkl	2024-10-09 08:30 PM	PKL File	18,717 KB
scaler.pkl	2024-10-09 08:29 PM	PKL File	2 KB

Step 3: Making Changes and Creating a Branch

Navigate into the cloned repository:

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo (master)
$ cd exp4-bitbucket

OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo/exp4-bitbucket (main)
$ |
```

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

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo/exp4-bitbucket (main)
$ nano example1.txt

OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo/exp4-bitbucket (main)
$ nano example2.txt

OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo/exp4-bitbucket (main)
$ nano example3.txt
```

Check the status of the repository:

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo/exp4-bitbucket (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)
        example1.txt
        example2.txt
        example3.txt

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

Stage the changes for commit:

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo/exp4-bitbucket (main)
$ git add example1.txt
warning: in the working copy of 'example1.txt', LF will be replaced by CRLF the next time Git touches it

OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo/exp4-bitbucket (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

OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo/exp4-bitbucket (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:

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo/exp4-bitbucket (main)
$ git commit -m "Adding content example1.txt, example2.txt and example3.txt"
[main b527412] Adding content example1.txt, example2.txt and example3.txt
3 files changed, 3 insertions(+)
create mode 100644 example1.txt
create mode 100644 example2.txt
create mode 100644 example3.txt
```

Create a new branch named feature:

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo/exp4-bitbucket (main)
$ git branch feature
```

Switch to the "feature" branch:

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo/exp4-bitbucket (main)
$ git checkout feature
Switched to branch 'feature'

OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo/exp4-bitbucket (feature)
$
```

Step 4: Pushing Changes to Bitbucket

Add the repository URL as a remote:

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo/exp4-bitbucket (feature)
$ git remote add origin https://omkar-reddi07-admin@bitbuket.org/omkar-reddi07/exp4-bitbuket.git
error: remote origin already exists.
```

Push the "feature" branch to Bitbucket:

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo/exp4-bitbucket (feature)
$ git push origin feature
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (5/5), 434 bytes | 434.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create pull request for feature:
remote:  https://bitbucket.org/omkar-reddi07/exp4-bitbucket/pull-requests/new?source=feature&t=1
remote:
To https://bitbucket.org/omkar-reddi07/exp4-bitbucket.git
* [new branch]      feature -> feature
```

// Branch : feature

Bitbucket

Your work

Pull requests

Repositories

Projects

More

Create

Search

exp4-bitbucket

Source

Commits

Branches

Pull requests

Pipelines

Deployments

Jira issues

feature

Files

Filter files

/

Name	Size	Last commit	Message
.gitignore	624 B	17 minutes ago	Initial commit
README.md	2.56 KB	17 minutes ago	Initial commit
example1.txt	9 B	5 minutes ago	Adding content example1.txt, example2.txt and example3.txt
example2.txt	9 B	5 minutes ago	Adding content example1.txt, example2.txt and example3.txt
example3.txt	9 B	5 minutes ago	Adding content example1.txt, example2.txt and example3.txt

Step 5: Collaborating through Pull Requests

Create a pull request on Bitbucket:

omkar-reddi07 / heart-disease-detection / exp4-bitbucket / Pull Requests

Create a Pull Request

Source Branch

feature

→

Destination Branch

main

Title *

Adding content example1.txt, example2.txt and example3.txt

Description

Normal text

B I ...

☰ ☷

🔗 📧 @ ☺

📁 <> “ ” + ✖

pulling request on feature branch.

Files 3

Lines updated +3

+ example1.txt +1

+ example2.txt +1

+ example3.txt +1

Review and merge the pull request:

omkar-reddi07 / heart-disease-detection / exp4-bitbucket / Pull requests

Adding content example1.txt, example2.txt and example3.txt

OK feature → main OPEN

#1 • Created 19 seconds ago • Last updated 19 seconds ago

Approve Merge ...

Overview Files changed 3 Commits 1

Description

pulling request on feature branch.

0 builds

Merge pull request

Source
feature

Destination
main

Merge strategy
Merge commit

Commit message
Merged in feature (pull request #1)
Adding content example1.txt, example2.txt and example3.txt

☐ Close source branch

Merge Cancel

omkar-reddi07 / heart-disease-detection / exp4-bitbucket / Pull requests

Adding content example1.txt, example2.txt and example3.txt

OK feature → main MERGED

#1 • Created 1 minute ago • Last updated 3 seconds ago

Overview Files changed 3 Commits 2

Merged pull request

Merged in feature (pull request #1)

dc914b9 · Author: Omkar Kamreddi · Closed by: Omkar Kamreddi · 5 seconds ago






// Branch : main

exp4-bitbucket

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](#).

main Files Filter files

/			
Name	Size	Last commit	Message
 .gitignore	624 B	21 minutes ago	Initial commit
 README.md	2.56 KB	21 minutes ago	Initial commit
 example1.txt	9 B	9 minutes ago	Adding content example1.txt, example2.txt and example3.txt
 example2.txt	9 B	9 minutes ago	Adding content example1.txt, example2.txt and example3.txt
 example3.txt	9 B	9 minutes ago	Adding content example1.txt, example2.txt and example3.txt

Step 6: Syncing Changes






After the pull request is merged, **update your local repository** :

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo/exp4-bitbucket (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)
```

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo/exp4-bitbucket (main)
```

```
OMKAR@LAPTOP-UU9CTA90 MINGW64 /d/Local-Repo/exp4-bitbucket (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), 250 bytes | 62.00 KiB/s, done.
From https://bitbucket.org/omkar-reddi07/exp4-bitbucket
* branch      main      -> FETCH_HEAD
   03d5b77..dc914b9  main      -> origin/main
Updating b527412..dc914b9
Fast-forward
```

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

This PC > New Volume (D:) > Local-Repo > exp4-bitbucket					Search
Sort View ...					
Name	Date modified	Type	Size		
 .gitignore	2024-10-12 04:54 PM	txtfile	1 KB		
 example1	2024-10-12 04:56 PM	Text Document	1 KB		
 example2	2024-10-12 04:57 PM	Text Document	1 KB		
 example3	2024-10-12 04:57 PM	Text Document	1 KB		
 README.md	2024-10-12 04:54 PM	MD File	3 KB		