

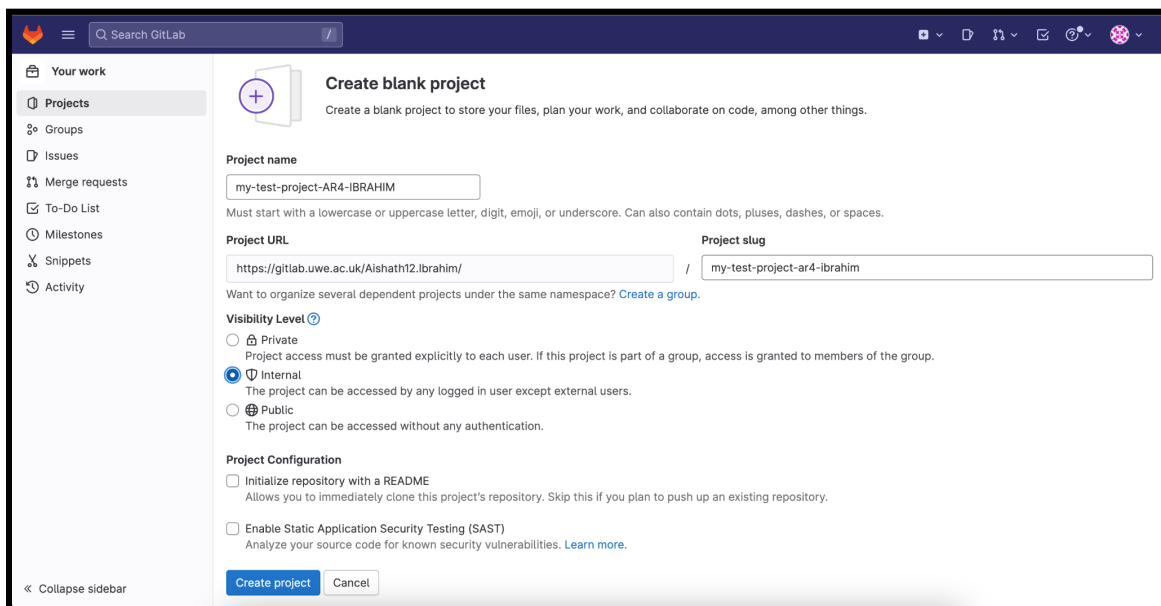
Operating Systems - GitLab W1

Name: Aishath Rafahath Ibrahim

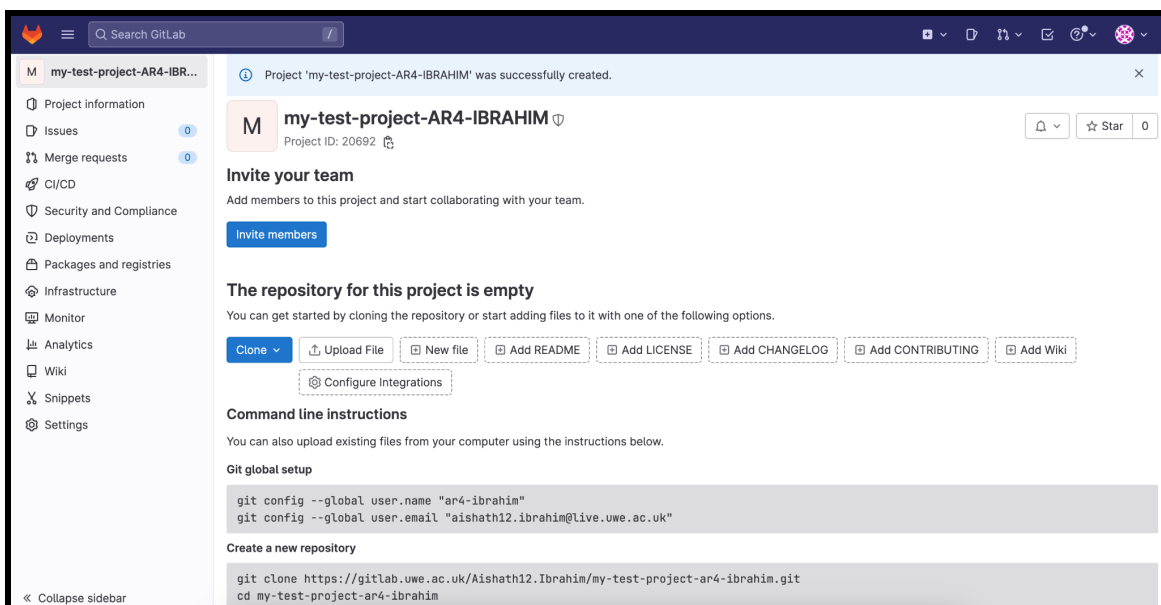
Std-ID: S2101105

1. Creating project in GitLab

To create the repository in GitLab, created the project and set the visibility level to internal so that it can be accessed by other students and lecturers



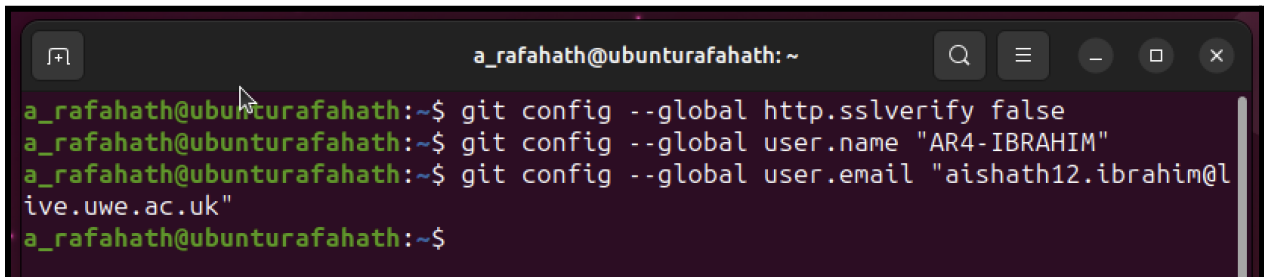
The screenshot shows the 'Create blank project' page in GitLab. The left sidebar contains navigation links: 'Your work', 'Projects', 'Groups', 'Issues', 'Merge requests', 'To-Do List', 'Milestones', 'Snippets', and 'Activity'. The main content area has a header 'Create blank project' with a subtext 'Create a blank project to store your files, plan your work, and collaborate on code, among other things.' Below this are input fields for 'Project name' (filled with 'my-test-project-AR4-IBRAHIM'), 'Project URL' (filled with 'https://gitlab.uwe.ac.uk/Aishath12.Ibrahim/'), and 'Project slug' (filled with 'my-test-project-ar4-ibrahim'). A 'Visibility Level' section has three radio buttons: 'Private', 'Internal' (selected), and 'Public'. Below this is a 'Project Configuration' section with two checkboxes: 'Initialize repository with a README' and 'Enable Static Application Security Testing (SAST)'. At the bottom are 'Create project' and 'Cancel' buttons.



The screenshot shows the project page for 'my-test-project-AR4-IBRAHIM' in GitLab. The left sidebar is the same as the previous screenshot. The main content area has a header 'my-test-project-AR4-IBRAHIM' with a 'Project ID: 20692' and a 'Star' button. Below this is an 'Invite your team' section with an 'Invite members' button. The next section is 'The repository for this project is empty' with a 'Clone' button and several 'Add' buttons: 'Add README', 'Add LICENSE', 'Add CHANGELOG', 'Add CONTRIBUTING', and 'Add Wiki'. Below this is a 'Command line instructions' section with a 'Git global setup' section containing two lines of code: 'git config --global user.name "ar4-ibrahim"' and 'git config --global user.email "aishath12.ibrahim@live.uwe.ac.uk"'. The final section is 'Create a new repository' with two lines of code: 'git clone https://gitlab.uwe.ac.uk/Aishath12.Ibrahim/my-test-project-ar4-ibrahim.git' and 'cd my-test-project-ar4-ibrahim'.

2. Creating the global setup using terminal

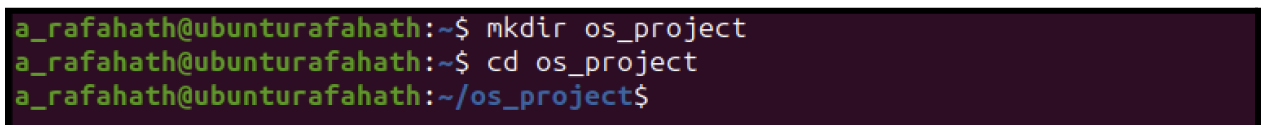
This is to connect my local machine and GitLab account so that commands within the terminal can be used to perform different actions which we would otherwise have to do manually

A terminal window with a dark background and light green text. The window title is 'a_rafahath@ubunturafahath: ~'. The terminal shows four lines of commands being entered and executed. The first line is 'git config --global http.sslverify false'. The second line is 'git config --global user.name "AR4-IBRAHIM"'. The third line is 'git config --global user.email "aishath12.ibrahim@live.uwe.ac.uk"'. The fourth line is an empty prompt. The prompt changes from '~\$' to '~/' after the third command.

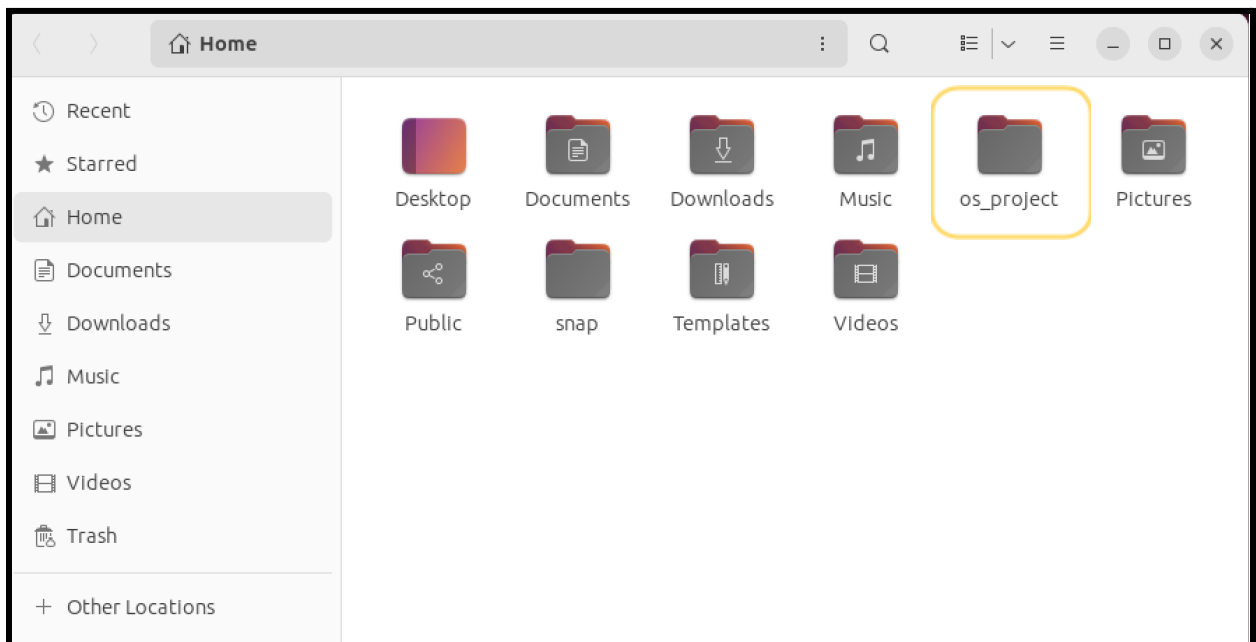
```
a_rafahath@ubunturafahath:~$ git config --global http.sslverify false
a_rafahath@ubunturafahath:~$ git config --global user.name "AR4-IBRAHIM"
a_rafahath@ubunturafahath:~$ git config --global user.email "aishath12.ibrahim@live.uwe.ac.uk"
a_rafahath@ubunturafahath:~$
```

3. Making a local directory to store the cloned repository

When the command mkdir with directory name was entered, the file was created in my device. And the cd command takes you into the folder.

A terminal window with a dark background and light green text. The window title is 'a_rafahath@ubunturafahath: ~'. The terminal shows three lines of commands being entered and executed. The first line is 'mkdir os_project'. The second line is 'cd os_project'. The third line is an empty prompt. The prompt changes from '~\$' to '~/os_project\$' after the second command.

```
a_rafahath@ubunturafahath:~$ mkdir os_project
a_rafahath@ubunturafahath:~$ cd os_project
a_rafahath@ubunturafahath:~/os_project$
```

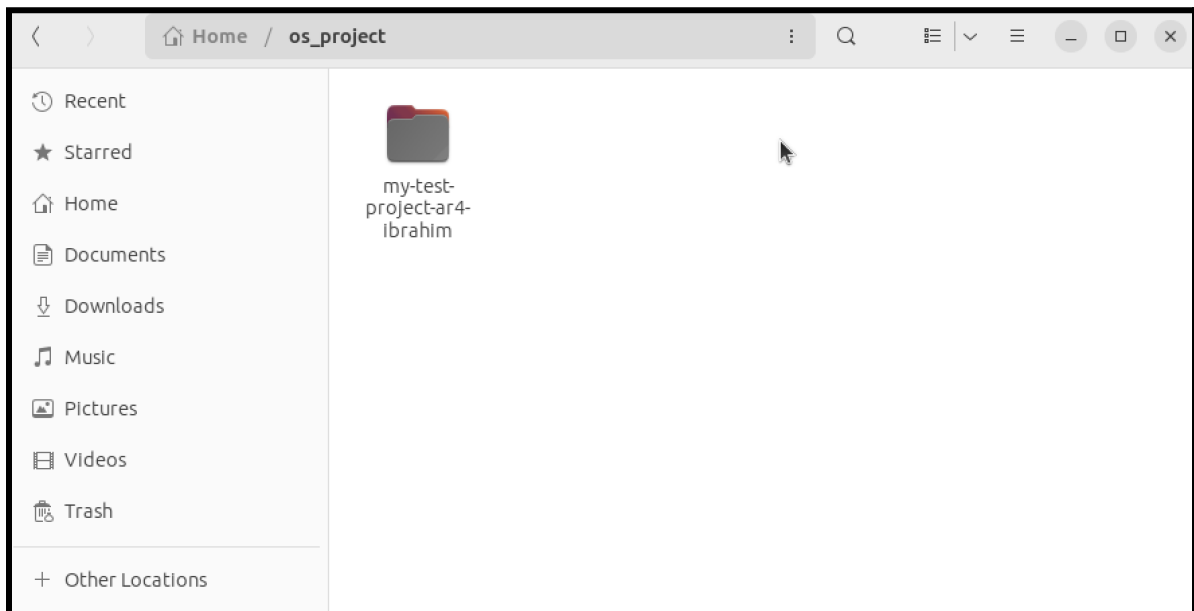


4. Cloning the repo locally

The command `git clone` with the http link to my remote repo on GitLab was used to clone the repo to my local device. The empty repo was cloned into the `os_project` folder.

```
a_rafahath@ubunturafahath:~/os_project$ git clone https://gitlab.uwe.ac.uk/Aishath12.Ibrahim/my-test-project-ar4-ibrahim.git
Cloning into 'my-test-project-ar4-ibrahim'...
Username for 'https://gitlab.uwe.ac.uk': AR4-IBRAHIM
Password for 'https://AR4-IBRAHIM@gitlab.uwe.ac.uk':
warning: You appear to have cloned an empty repository.
a_rafahath@ubunturafahath:~/os_project$
```

```
a_rafahath@ubunturafahath:~/os_project$ ls -al
total 12
drwxrwxr-x  3 a_rafahath a_rafahath 4096 Jun 17 07:09 .
drwxr-x--- 17 a_rafahath a_rafahath 4096 Jun 17 06:57 ..
drwxrwxr-x  3 a_rafahath a_rafahath 4096 Jun 17 07:09 my-test-project-ar4-ibrahim
a_rafahath@ubunturafahath:~/os_project$
```



5. Creating README.md file in the local repository

When the gedit README.md command was executed the README file was opened. And as the remote repo was empty, the new file was pushed to the GitLab repo. Then the local readme was edited and added and then did a commit and pushed the modified file.

Gedit is the Ubuntu text editor.

```
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
a_rafahath@ubunturafahath:~/os_project/my-test-project-ar4-ibrahim$ git add README.md
a_rafahath@ubunturafahath:~/os_project/my-test-project-ar4-ibrahim$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   README.md
```

```
a_rafahath@ubunturafahath:~/os_project/my-test-project-ar4-ibrahim$ git commit -m "Modified README"
[main 42cf93e] Modified README
 1 file changed, 1 insertion(+), 1 deletion(-)
a_rafahath@ubunturafahath:~/os_project/my-test-project-ar4-ibrahim$ git push -u origin main
Username for 'https://gitlab.uwe.ac.uk': AR4-IBRAHIM
Password for 'https://AR4-IBRAHIM@gitlab.uwe.ac.uk':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 286 bytes | 286.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://gitlab.uwe.ac.uk/Aishath12.Ibrahim/my-test-project-ar4-ibrahim.git
 434fa48..42cf93e  main -> main
branch 'main' set up to track 'origin/main'.
a_rafahath@ubunturafahath:~/os_project/my-test-project-ar4-ibrahim$
```

Modified README

parent 434fa484 main

No related merge requests found

Changes 1

Showing 1 changed file with 1 addition and 1 deletion

Hide whitespace changesInlineSide-by-side

▼ README.md

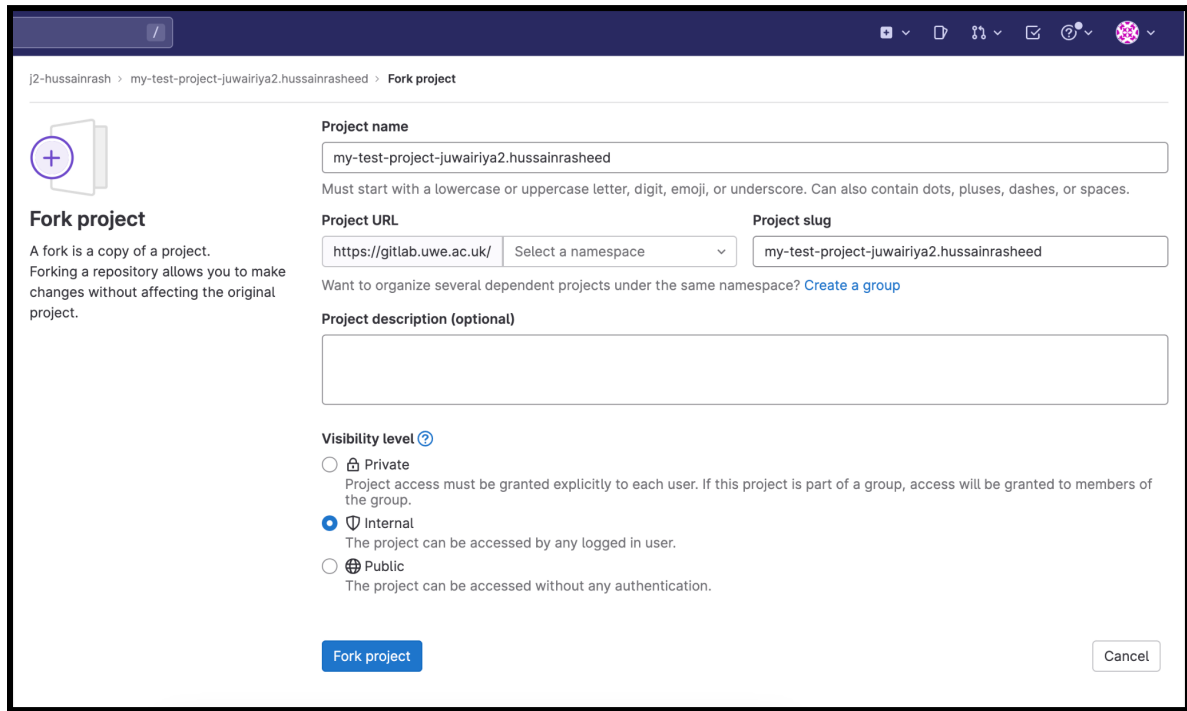
+1 -1 View file @42cf93e5

| | |
|---|-------------------------|
| 1 | - Hello World |
| 1 | + Hello World -Rafahath |

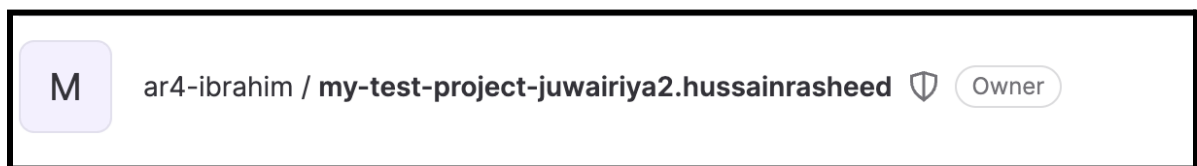
6. Forking a project

Forked the project of another student and it was found in my repository. The name of the forked file has the name of the project slug, who is the maintainer or in other words the one who created the original file.

The process of cloning the forked repository is similar to cloning your own repo as we did previously. After the changes were brought to the repo locally, they were pushed to the remote repo and a merge request was sent to the student. Once they accept, the changes will be included in the original repository.

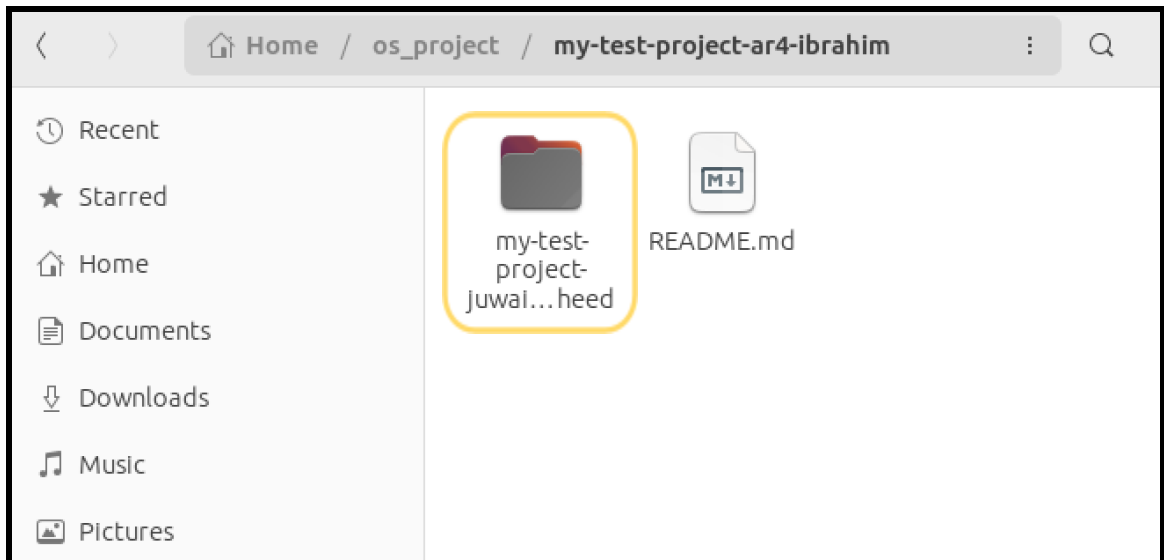


The screenshot shows the 'Fork project' form in GitLab. The breadcrumb trail at the top is 'j2-hussainrash > my-test-project-juwairiya2.hussainrasheed > Fork project'. On the left, there is a 'Fork project' section with a plus icon and a brief explanation: 'A fork is a copy of a project. Forking a repository allows you to make changes without affecting the original project.' The main form area contains several fields: 'Project name' with the value 'my-test-project-juwairiya2.hussainrasheed' and a note that it must start with a lowercase or uppercase letter, digit, emoji, or underscore; 'Project URL' with the value 'https://gitlab.uwe.ac.uk/' and a 'Select a namespace' dropdown; 'Project slug' with the value 'my-test-project-juwairiya2.hussainrasheed'; and 'Project description (optional)' which is an empty text area. Below these fields is the 'Visibility level' section with three radio buttons: 'Private' (unchecked), 'Internal' (checked), and 'Public' (unchecked). Each option has a brief description. At the bottom right, there are 'Fork project' and 'Cancel' buttons.



The screenshot shows the header of a GitLab repository. It features a purple square icon with the letter 'M' on the left. To its right is the text 'ar4-ibrahim / my-test-project-juwairiya2.hussainrasheed' followed by a shield icon and a button labeled 'Owner'.

```
a_rafahath@ubunturafahath:~/os_project/my-test-project-ar4-ibrahim$ git clone https://gitlab.uwe.ac.uk/Aishath12.Ibrahim/my-test-project-juwairiya2.hussainrasheed.git
Cloning into 'my-test-project-juwairiya2.hussainrasheed'...
Username for 'https://gitlab.uwe.ac.uk': AR4-IBRAHIM
Password for 'https://AR4-IBRAHIM@gitlab.uwe.ac.uk':
remote: Enumerating objects: 6, done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 6
Receiving objects: 100% (6/6), done.
a_rafahath@ubunturafahath:~/os_project/my-test-project-ar4-ibrahim$
```



```
a_rafahath@ubunturafahath:~/os_project/my-test-project-ar4-ibrahim/my-test-project-juwairiya2.sainrasheed$ git add README.md
a_rafahath@ubunturafahath:~/os_project/my-test-project-ar4-ibrahim/my-test-project-juwairiya2.sainrasheed$ git commit -m "Modified README -Rafahath"
[main fc599a0] Modified README -Rafahath
1 file changed, 1 insertion(+)
a_rafahath@ubunturafahath:~/os_project/my-test-project-ar4-ibrahim/my-test-project-juwairiya2.sainrasheed$ git push -u origin main
Username for 'https://gitlab.uwe.ac.uk': AR4-IBRAHIM
Password for 'https://AR4-IBRAHIM@gitlab.uwe.ac.uk':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 332 bytes | 332.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://gitlab.uwe.ac.uk/Aishath12.Ibrahim/my-test-project-juwairiya2.hussainrasheed.git
5442c58..fc599a0  main -> main
branch 'main' set up to track 'origin/main'.
```

ar4-ibrahim > my-test-project-juwairiya2.hussainrasheed

M

my-test-project-juwairiya2.hussainrasheed

Project ID: 20700

🔔

☆ Star

0

🍴 Fork

0

🔗 3 Commits

🌿 1 Branch

🏷️ 0 Tags

💾 0 Bytes Project Storage

🌸

Modified README -Rafahath

ar4-ibrahim authored 1 minute ago

fc599a06

main

my-test-project-juwairiya2.hussainrasheed /

+

History

Find file

Web IDE

📄

Clone

🍴

Forked from j2-hussainrash / my-test-project-juwairiya2.hussainrasheed

1 commit ahead of the upstream repository.

Create merge request

📄 README

⚙️ Auto DevOps enabled

📄 Add LICENSE

📄 Add CHANGELOG

📄 Add CONTRIBUTING

📄 Add Kubernetes cluster

📄 Add Wiki

⚙️ Configure Integrations

| Name | Last commit | Last update |
|-------------|---------------------------|--------------|
| 📄 README.md | Modified README -Rafahath | 1 minute ago |

New merge request

From Aishath12.Ibrahim/my-test-project-juwairiya2.hussainrasheed:main into Juwairiya2.Hussainrasheed/my-test-project-juwairiya2.hussainrasheed:main

[Change branches](#)

⚠️ This merge request is from an internal project to a public project.
Review the target project before submitting to avoid exposing internal changes.

Title (required)

Modified README -Rafahath

☐ Mark as draft
Drafts cannot be merged until marked ready.

Description

B

I

S

≡

</>

🔗

☰

☰

☰

📄

📄

🔗

Preview

Describe the goal of the changes and what reviewers should be aware of.

Supports Markdown. For quick actions, type `/`.

Merge options

☐ Squash commits when merge request is accepted.