

Name: Rajvardhan Ganpatrao Patil
Roll No: 40 Div: A

Assignment

1.Using GitLab web IDE Git commands to interact with Gitlab

```
Admin@IMITNM-DES-0032 MINGW64 ~ (master)
$ cd d:

Admin@IMITNM-DES-0032 MINGW64 /d
$ mkdir JavaProg

Admin@IMITNM-DES-0032 MINGW64 /d
$ cd JavaProg

Admin@IMITNM-DES-0032 MINGW64 /d/JavaProg
$ git clone https://gitlab.com/rajgpatil/java.git
Cloning into 'java'...
remote: Enumerating objects: 30, done.
remote: Total 30 (delta 0), reused 0 (delta 0), pack-reused 30 (from 1)
Receiving objects: 100% (30/30), 6.40 KiB | 6.40 MiB/s, done.
Resolving deltas: 100% (7/7), done.

Admin@IMITNM-DES-0032 MINGW64 /d/JavaProg
$ cd java

Admin@IMITNM-DES-0032 MINGW64 /d/JavaProg/java (main)
$ vi JavaDemo.java

Admin@IMITNM-DES-0032 MINGW64 /d/JavaProg/java (main)
$ git add .

Admin@IMITNM-DES-0032 MINGW64 /d/JavaProg/java (main)
$ git commit -m "add by local machine.."
[main 0c828a5] add by local machine..
1 file changed, 2 insertions(+), 1 deletion(-)

Admin@IMITNM-DES-0032 MINGW64 /d/JavaProg/java (main)
$
```

```
Admin@IMITNM-DES-0032 MINGW64 /d/JavaProg/java (main)
$ git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 400 bytes | 400.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
To https://gitlab.com/rajgpatil/java.git
fdde084..0c828a5 main -> main

Admin@IMITNM-DES-0032 MINGW64 /d/JavaProg/java (main)
$
```

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J

java

main


java /



+




Find file

Edit

Code

 [add by local machine..](#)
Surbhii-02 authored 1 minute ago

 0c828a5f  History

Name	Last commit	Last update
 .gitlab-ci.yml	Update .gitlab-ci.yml file	11 minutes ago
 JavaDemo.java	add by local machine..	1 minute ago
 README.md	Initial commit	6 days ago

JavaDemo.java

+2 -1

View file @ 0c828a5f

```
@@ -2,5 +2,6 @@ public class JavaDemo{
2      2      public static void main(String args[]){
3      3          System.out.println("Welcome to bvimit");
4      4          System.out.println("Add line by bash");
5      5      }
6      6      - }
        \ No newline at end of file
7      7      + }
```

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2 Performing merge requests using GitLab

The screenshot shows the 'Create blank project' page on GitLab. The left sidebar contains navigation links: Projects, Groups, Issues, Merge requests, To-Do List, Milestones, Snippets, Activity, Import history, Workspaces, Environments, Operations, and Security. The main content area is titled 'Create blank project' and includes a description: 'Create a blank project to store your files, plan your work, and collaborate on code, among other things.' Below this, there are several form fields: 'Project name' with a text input containing 'My awesome project' and a note 'Name must start with a letter, digit, emoji, or underscore.'; 'Project URL' with a dropdown menu showing 'https://gitlab.com/' and 'gocode3'; 'Project slug' with a text input containing 'my-awesome-project'; 'Project deployment target (optional)' with a dropdown menu showing 'Select the deployment target'; 'Visibility Level' with radio buttons for 'Private' (selected), 'Internal', and 'Public'; and 'Project Configuration' with checkboxes for 'Initialize repository with a README' (checked), 'Enable Static Application Security Testing (SAST)', and 'Experimental settings' (a link).

Your work / Projects / New project / Create blank project

Create blank project

Create a blank project to store your files, plan your work, and collaborate on code, among other things.

Project name

Name must start with a letter, digit, emoji, or underscore.

Project URL

Project slug

Project deployment target (optional)

Visibility Level

☒ Private
Project access must be granted explicitly to each user. If this project is part of a group, access is granted to members of the group.

☐ Internal
The project can be accessed by any logged in user except external users.

☐ Public
The project can be accessed without any authentication.

Project Configuration

☒ Initialize repository with a README
Allows you to immediately clone this project's repository. Skip this if you plan to push up an existing repository.

☐ Enable Static Application Security Testing (SAST)
Analyze your source code for known security vulnerabilities. [Learn more.](#)

[Experimental settings](#)

The screenshot shows the 'devops-lab' project page on GitLab. The left sidebar contains navigation links: Project, Learn GitLab, Pinned, Issues, Merge requests, Manage, Plan, Code, Build, Secure, Deploy, Operate, Monitor, Analyze, Settings, and Help. The main content area is titled 'devops-lab' and includes a description: 'devops-lab'. Below this, there are several sections: 'Merge branch 'dev' into 'main'' with a commit hash '49d8edbc' and a button 'History'; a table of files with columns 'Name', 'Last commit', and 'Last update'; a 'README.md' section with the title 'devops-lab' and the text 'Getting started'; and a 'Project information' section with details like '1 Commit', '1 Branch', '0 Tags', '5 KiB Project Storage', 'README', 'CI/CD configuration', and 'Add LICENSE', 'Add CHANGELOG', 'Add CONTRIBUTING', 'Add Kubernetes cluster', 'Add Wiki', and 'Configure Integrations'.

GOCODE / devops-lab

devops-lab

main devops-lab / +

Find file Edit Code

Merge branch 'dev' into 'main' 49d8edbc History

ashish325 authored 3 minutes ago

Name	Last commit	Last update
.gitlab-ci.yml	Update .gitlab-ci.yml file	13 minutes ago
README.md	Initial commit	14 minutes ago
code-free.txt	Edit code-free	8 minutes ago
devo.txt	Add new file	5 minutes ago

README.md

devops-lab

Getting started

To make it easy for you to get started with GitLab, here's a list of recommended next steps.

Already a pro? Just edit this README.md and make it your own. Want to make it easy? [Use the template at the bottom!](#)

Project information

- 1 Commit
- 1 Branch
- 0 Tags
- 5 KiB Project Storage
- README
- CI/CD configuration
- [Add LICENSE](#)
- [Add CHANGELOG](#)
- [Add CONTRIBUTING](#)
- [Add Kubernetes cluster](#)
- [Add Wiki](#)
- [Configure Integrations](#)

Created on
February 10, 2025

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Merge the dev branch into main

The screenshot shows the GitHub web interface for a repository named 'gocode3/devops-lab'. The page displays a commit titled 'Merge branch 'dev' into 'main'' by user 'ashish32S'. The commit message is 'please merge the new file'. The interface includes a sidebar with navigation options like 'Merge requests', 'Manage', 'Plan', 'Code', 'Merge requests', 'Repository', 'Branches', 'Commits', 'Tags', 'Repository graph', 'Compare revisions', 'Snippets', 'Build', 'Secure', and 'Deploy'. The main content area shows the commit details, including the commit hash '49d8edbc', the commit message, and a list of changes. The changes section shows a single file 'devo.txt' with 1 addition and 0 deletions. The commit is authored 3 minutes ago by 'ashish32S'.

The screenshot shows the GitHub web interface for a merge request titled 'please merge the new file' by user 'ashish32S'. The merge request is in the 'Merged' state. The interface includes a sidebar with navigation options like 'Learn GitLab', 'Pinned', 'Issues', 'Merge requests', 'Manage', 'Plan', 'Code', 'Merge requests', 'Repository', 'Branches', 'Commits', 'Tags', 'Repository graph', 'Compare revisions', 'Snippets', 'Build', 'Secure', and 'Deploy'. The main content area shows the merge request details, including the title, the merge request number '11', the merge request state 'Merged', the merge request author 'ashish32S', the merge request target branch 'dev', and the merge request source branch 'main'. The merge request is created 5 minutes ago. The interface also shows the merge request details, including the merge request title, the merge request number, the merge request state, the merge request author, the merge request target branch, and the merge request source branch. The merge request is created 5 minutes ago. The interface also shows the merge request details, including the merge request title, the merge request number, the merge request state, the merge request author, the merge request target branch, and the merge request source branch. The merge request is created 5 minutes ago.

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3. Workflow management in GitLab

CI/CD

```
# This file is a template, and might need editing before it works on your project.
# This is a sample GitLab CI/CD configuration file that should run without any modifications.
# It demonstrates a basic 3 stage CI/CD pipeline. Instead of real tests or scripts,
# it uses echo commands to simulate the pipeline execution.
#
# A pipeline is composed of independent jobs that run scripts, grouped into stages.
# Stages run in sequential order, but jobs within stages run in parallel.
#
# For more information, see: https://docs.gitlab.com/ee/ci/yaml/#stages
#
# You can copy and paste this template into a new `.gitlab-ci.yml` file.
# You should not add this template to an existing `.gitlab-ci.yml` file by using the `include:` keyword.
#
# To contribute improvements to CI/CD templates, please follow the Development guide at:
# https://docs.gitlab.com/ee/development/cicd/templates.html
# This specific template is located at:
# https://gitlab.com/gitlab-org/gitlab/-/blob/master/lib/gitlab/ci/templates/Getting-Started.gitlab-ci.yml
```

```
stages:      # List of stages for jobs, and their order of execution
  - build
  - test
```

```
before_script:
  - apt-get update && apt-get install -y openjdk-17-jdk #Install Java
```

```
build:      # This job runs in the build stage, which runs first.
  stage: build
  script:
    - javac JavaDemo.java #Run java File
    - ls -l
  artifacts:
    paths:
      - JavaDemo.class
  only:
    - main
```

```
test:      # This job also runs in the test stage.
  stage: test # It can run at the same time as unit-test-job (in parallel).
  script:
    - ls -l
    - java JavaDemo
  only:
    - main
```

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Pipeline #1685047288 passed
Pipeline passed for @779b989 just now

✓ Pipeline syntax is correct. [Learn more](#)

Edit Visualize Validate Full configuration

CI/CD Catalog Help

```

22
23
24 before_script:
25   - apt-get update && apt-get install -y openjdk-17-jdk #Install Java
26
27 build: ... # This job runs in the build stage, which runs first.
28   stage: build
29   script:
30     - javac JavaDemo.java #Run java File
31     - ls -l
32   artifacts:
33     paths:
34       - JavaDemo.class
35   only:
36     - main
37

```

All 15 Finished

Filter jobs

Status	Job	Pipeline	Coverage
Passed ⌚ 00:00:57 📅 1 minute ago	#9221481336: test 🔗 main → @779b989	#1685047288 created by 🤖 Stage: test	
Passed ⌚ 00:00:58 📅 2 minutes ago	#9221481334: build 🔗 main → @779b989	#1685047288 created by 🤖 Stage: build	