### DevOps git-exercises

### Exercise 1

Repository cloned and pushed to GitLab remote repository.

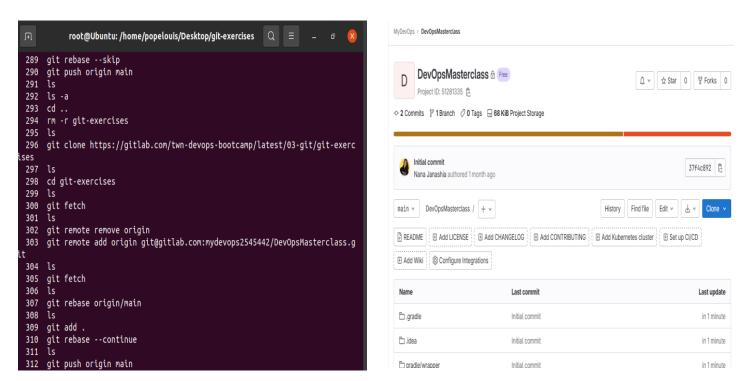


Figure Error! No text of specified style in document..1:Screenshots of commands and content pushed to Gitlab remote(DevOpsMasterclass)

### Exercise 2

# Created and added IDE specific folders .idea and .DS\_Store files to .gitignore

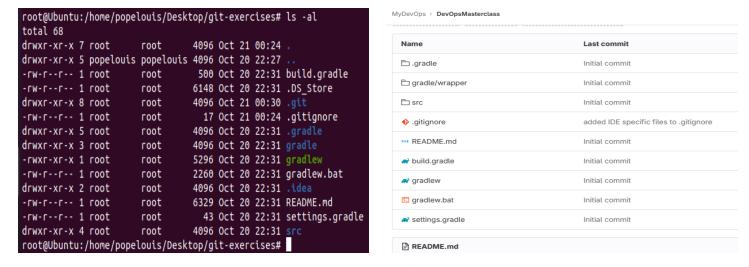
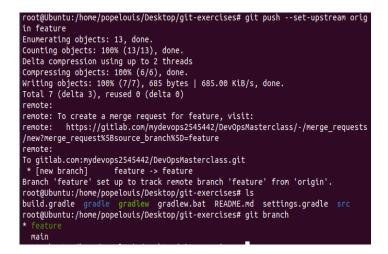


Figure.2: Local repository compared with remote to appreciate gitignore (best practice)

# Feature branch with image added



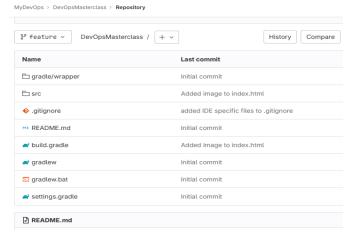
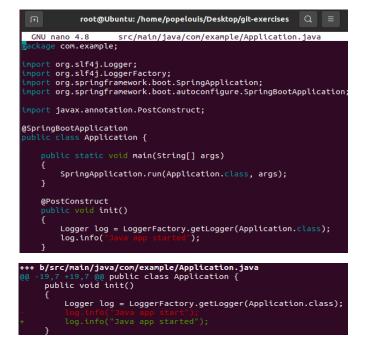


Figure.3: Feature branch created, changes made, pushed and reflected on gitlab

### Exercise 4

### Bugfix branch



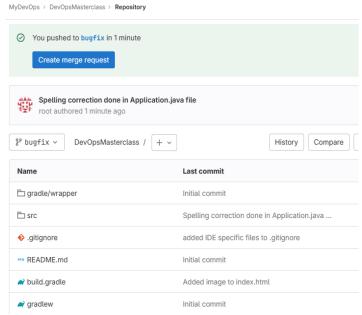


Figure. Error! No text of specified style in document..4: Bug fixed, commented and pushed successfully.

### Merge request creation and merging feature branch to main

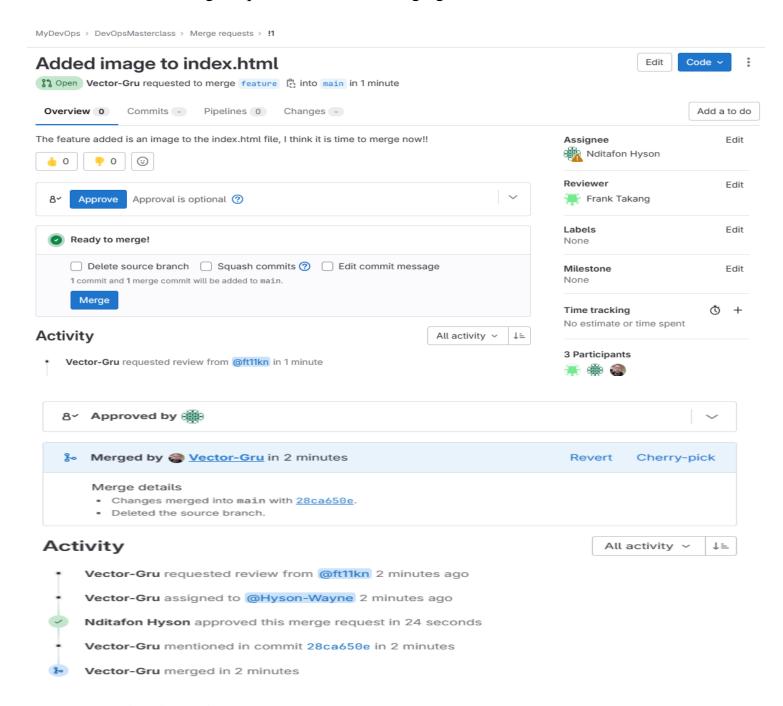


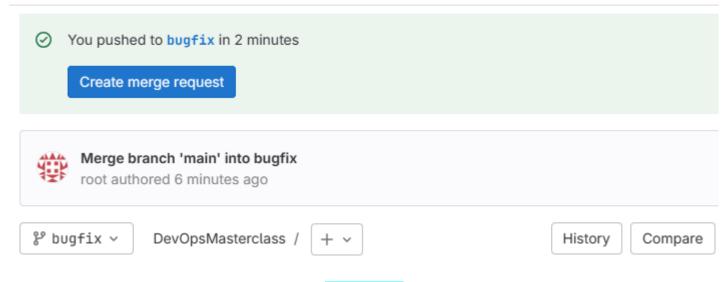
Figure.5: Feature branch merged to main

## Exercise 6

## Fixing merge conflict

```
root@Ubuntu:/home/popelouis/Desktop/git-exercises# git branch

* bugfix
feature
main
root@Ubuntu:/home/popelouis/Desktop/git-exercises# git merge main
Merge made by the 'recursive' strategy.
root@Ubuntu:/home/popelouis/Desktop/git-exercises#
```



### Making changes and referting

Figure.6: spelling corrected

Figure. Error! No text of specified style in document.. 7: image url changed

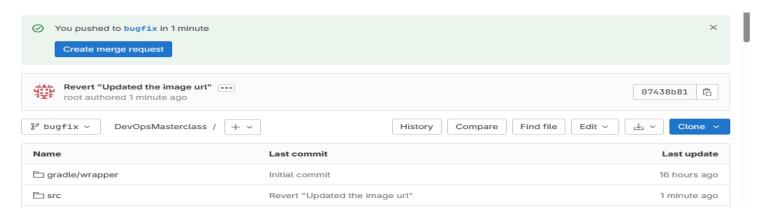


Figure ..8: Image change and commit reverted

#### Making and resetting commits

Figure..9: Showing changes done to the role of Bruno, now in DevOps team

```
root@Ubuntu:/home/popelouis/Desktop/git-exercises# git reset --hard HEAD~1
HEAD is now at 07438b8 Revert "Updated the image url"
root@Ubuntu:/home/popelouis/Desktop/git-exercises#
```

Figure.10: using git reset --hard HEAD~1 command to reset commit and local changes

Figure.11: Changes reset and reflected in the file

## Exercise 9

### Merging

```
root@Ubuntu:/home/popelouis/Desktop/git-exercises# git branch
* bugfix
  feature
  main
root@Ubuntu:/home/popelouis/Desktop/git-exercises# git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
root@Ubuntu:/home/popelouis/Desktop/git-exercises# git branch
  bugfix
  feature
* main
root@Ubuntu:/home/popelouis/Desktop/git-exercises# git fetch
  root@Ubuntu:/home/popelouis/Desktop/git-exercises# git pull
Already up to date.
  root@Ubuntu:/home/popelouis/Desktop/git-exercises# git push
```

Figure 12: Switched to main from bugfix and ensuring that main is up to date with remote using git fetch, git pull and git push

Figure.13: Merging bugfix to main using git merge

### Deleting the feature and bugfix branches

```
root@Ubuntu:/home/popelouis/Desktop/git-exercises# git branch
  bugfix
  feature
* main
root@Ubuntu:/home/popelouis/Desktop/git-exercises# git branch -d feature
Deleted branch feature (was d8008f9).
root@Ubuntu:/home/popelouis/Desktop/git-exercises# git branch -d bugfix
Deleted branch bugfix (was 07438b8).
```

Figure 14: feature and bugfix branches deleted

```
root@Ubuntu:/home/popelouis/Desktop/git-exercises# ssh -T git@gitlab.com
Welcome to GitLab, @vector-gru!
root@Ubuntu:/home/popelouis/Desktop/git-exercises# git push origin --delete bug
fix
To gitlab.com:mydevops2545442/DevOpsMasterclass.git
- [deleted] bugfix
root@Ubuntu:/home/popelouis/Desktop/git-exercises#
```

Figure Error! No text of specified style in document..15: Remote delete using 'git push origin --delete bug'

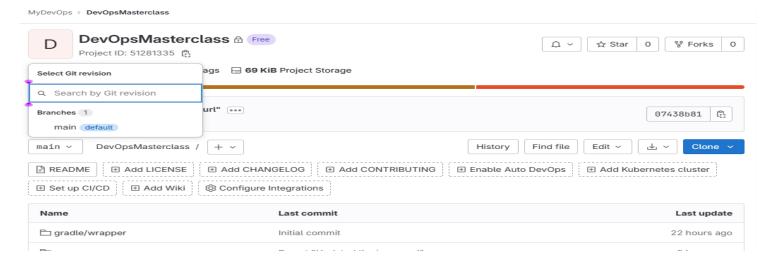


Figure Error! No text of specified style in document.. 16: Deletions reflected at remote, only main can be found