

Git Exercises-Nsah-Sympathy-Lesi

Exercise 1:

Cloning and creation of local repo and pushing to remote repo

The screenshot shows a Windows command prompt window on the left and a web browser window on the right. The command prompt displays the following commands and output:

```
Administrator C:\Windows\System32\cmd.exe
28/10/2023 02:17 6,148 .DS_Store
28/10/2023 02:17 <DIR> .gradle
28/10/2023 02:17 <DIR> .idea
28/10/2023 02:17 520 build.gradle
28/10/2023 02:17 <DIR> gradle
28/10/2023 02:17 5,468 gradlew
28/10/2023 02:17 2,260 gradlew.bat
28/10/2023 02:17 78 README.md
28/10/2023 02:17 45 settings.gradle
28/10/2023 02:17 <DIR> src
6 File(s) 14,519 bytes
6 Dir(s) 44,938,596,352 bytes free

D:\git-practice\git-exercises>git pull
Already up to date.

D:\git-practice\git-exercises>git remote remove origin

D:\git-practice\git-exercises>git remote add origin https://gitlab.com/sympathylesi/git-exercises.git

D:\git-practice\git-exercises>git branch -M main

D:\git-practice\git-exercises>git push -uf origin main
Enumerating objects: 46, done.
Counting objects: 100% (46/46), done.
Delta compression using up to 4 threads
Compressing objects: 100% (28/28), done.
Writing objects: 100% (46/46), 60.86 KiB | 20.29 MiB/s, done.
Total 46 (delta 3), reused 45 (delta 3), pack-reused 0
remote: GitLab: You are not allowed to force push code to a protected branch on this project.
To https://gitlab.com/sympathylesi/git-exercises.git
 ! [remote rejected] main -> main (pre-receive hook declined)
error: failed to push some refs to 'https://gitlab.com/sympathylesi/git-exercises.git'

D:\git-practice\git-exercises>git push -uf origin main
Enumerating objects: 46, done.
Counting objects: 100% (46/46), done.
Delta compression using up to 4 threads
Compressing objects: 100% (28/28), done.
Writing objects: 100% (46/46), 60.86 KiB | 60.86 MiB/s, done.
Total 46 (delta 3), reused 45 (delta 3), pack-reused 0
To https://gitlab.com/sympathylesi/git-exercises.git
 + 61d2715...0173fb5 main -> main (forced update)
branch 'main' set up to track 'origin/main'.

D:\git-practice\git-exercises>
```

The web browser window shows the GitLab repository page for 'Nsah Lesi / git-exercises'. The page displays the repository name, the initial commit by Nana Janashia, and a list of files and their last commit dates. The files listed are:

Name	Last commit	Last update
.gradle	Initial commit	1 month ago
.idea	Initial commit	1 month ago
gradle/wrapper	Initial commit	1 month ago
src	Initial commit	1 month ago
.DS_Store	Initial commit	1 month ago
README.md	Initial commit	1 month ago
build.gradle	Initial commit	1 month ago
gradlew	Initial commit	1 month ago

Exercise 2

.gitignore file created and required files add to it

The screenshot shows a Windows command prompt window on the left and a web browser window on the right. The command prompt displays the following commands and output:

```
Administrator C:\Windows\System32\cmd.exe
create mode 100644 .gitignore

D:\git-practice\git-exercises>git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

nothing to commit, working tree clean

D:\git-practice\git-exercises>git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 342 bytes | 342.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
To https://gitlab.com/sympathylesi/git-exercises.git
 0173fb5..1e2f199 main -> main

D:\git-practice\git-exercises>git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

D:\git-practice\git-exercises>git rm -r --cached .idea build.gradle .gradle .DS_Store
rm '.DS_Store'
rm '.gradle/4.10/fileChanges/last-build.bin'
rm '.gradle/4.10/fileHashes/fileHashes.bin'
rm '.gradle/4.10/fileHashes/fileHashes.lock'
rm '.gradle/4.10/gc.properties'
rm '.gradle/4.10/taskHistory/taskHistory.bin'
rm '.gradle/4.10/taskHistory/taskHistory.lock'
rm '.gradle/buildOutputCleanup/buildOutputCleanup.lock'
rm '.gradle/buildOutputCleanup/cache.properties'
rm '.gradle/buildOutputCleanup/outputFiles.bin'
rm '.gradle/vcs-1/gc.properties'
rm '.idea/compiler.xml'
rm '.idea/encodings.xml'
rm '.idea/gradle.xml'
rm '.idea/misc.xml'
rm '.idea/vcs.xml'
rm '.idea/workspace.xml'
rm 'build.gradle'

D:\git-practice\git-exercises>
```

The web browser window shows the GitLab repository page for 'Nsah Lesi / git-exercises'. The page displays the repository name, the initial commit by Nana Janashia, and a list of files and their last commit dates. The files listed are:

Name	Last commit	Last update
gradle/wrapper	Initial commit	1 month ago
src	Initial commit	1 month ago
.gitignore	Required files added to gitignore files and ...	just now
README.md	Initial commit	1 month ago
gradlew	Initial commit	1 month ago
settings.gradle	Initial commit	1 month ago

Exercise 3

Feature branch created and image downloaded and added

```
D:\git-practice\git-exercises>git checkout -b feature
Switched to a new branch 'feature'

D:\git-practice\git-exercises>git branch
* feature
  main

D:\git-practice\git-exercises>git add .

D:\git-practice\git-exercises>git commit "Image downloaded and added to the images folder"
error: pathspec 'Image downloaded and added to the images folder' did not match any file(s) known to git

D:\git-practice\git-exercises>git commit -m "Image downloaded and added to the images folder"
[feature 478cfd4] Image downloaded and added to the images folder
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 images/illustration-group-people-team-meeting.jpg

D:\git-practice\git-exercises>git push
fatal: The current branch feature has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin feature

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

D:\git-practice\git-exercises>git push --set-upstream origin feature
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 47.14 KiB | 11.78 MiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
remote:
remote: To create a merge request for feature, visit:
remote:   https://gitlab.com/sympathylesi/git-exercises/-/merge_requests/new?merge_request%5Bsource_branch%5D=feature
remote:
To https://gitlab.com/sympathylesi/git-exercises.git
 * [new branch]   feature -> feature
branch 'feature' set up to track 'origin/feature'.

D:\git-practice\git-exercises>git push
Everything up-to-date
```

gitlab.com/sympathylesi/git-exercises/-/tree/feature?ref_t...

Nsah Lesi > git-exercises > Repository

Create merge request

Image downloaded and added to the images folder
Nsah Lesi authored 1 minute ago

feature git-exercises / + History Compare Find file Edit Clone

Name	Last commit	Last update
gradle/wrapper	Initial commit	1 month ago
images	Image downloaded and added to the imag...	1 minute ago
src	Initial commit	1 month ago
.gitignore	Required files added to gitignore files and ...	11 minutes ago
README.md	Initial commit	1 month ago
gradlew	Initial commit	1 month ago
settings.gradle	Initial commit	1 month ago

README.md

Exercise 4

Creation of bugfix branch and spelling error corrected

```
D:\git-practice\git-exercises>git checkout -b bugfix
Switched to a new branch 'bugfix'

D:\git-practice\git-exercises>git branch
* bugfix
  feature
  main

D:\git-practice\git-exercises>git push --set-upstream origin bugfix
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: To create a merge request for bugfix, visit:
remote:   https://gitlab.com/sympathylesi/git-exercises/-/merge_requests/new?merge_request%5Bsource_branch%5D=bugfix
remote:
To https://gitlab.com/sympathylesi/git-exercises.git
 * [new branch]   bugfix -> bugfix
branch 'bugfix' set up to track 'origin/bugfix'.

D:\git-practice\git-exercises>git diff
diff --git a/src/main/java/com/example/Application.java b/src/main/java/com/example/Application.java
index abd1519..3f27354 100644
--- a/src/main/java/com/example/Application.java
+++ b/src/main/java/com/example/Application.java
@@ -19,7 +19,7 @@ public class Application {
     public void init() {
         Logger log = LoggerFactory.getLogger(Application.class);
-        log.info("Java app starte");
+        log.info("Java app started");
     }

     public String getStatus() {

D:\git-practice\git-exercises>git add .

D:\git-practice\git-exercises>git commit -m "Spelling error 'starte' corrected to 'started' fixed in the application.java file"
[bugfix 902e27e] Spelling error 'starte' corrected to 'started' fixed in the application.java file
1 file changed, 1 insertion(+), 1 deletion(-)

D:\git-practice\git-exercises>git push
Enumerating objects: 15, done.
Counting objects: 100% (15/15), done.
Delta compression using up to 4 threads
Compressing objects: 100% (5/5), done.
```

gitlab.com/sympathylesi/git-exercises/-/tree/bugfix?ref_t...

Nsah Lesi > git-exercises > Repository

You pushed to bugfix 1 minute ago

Create merge request

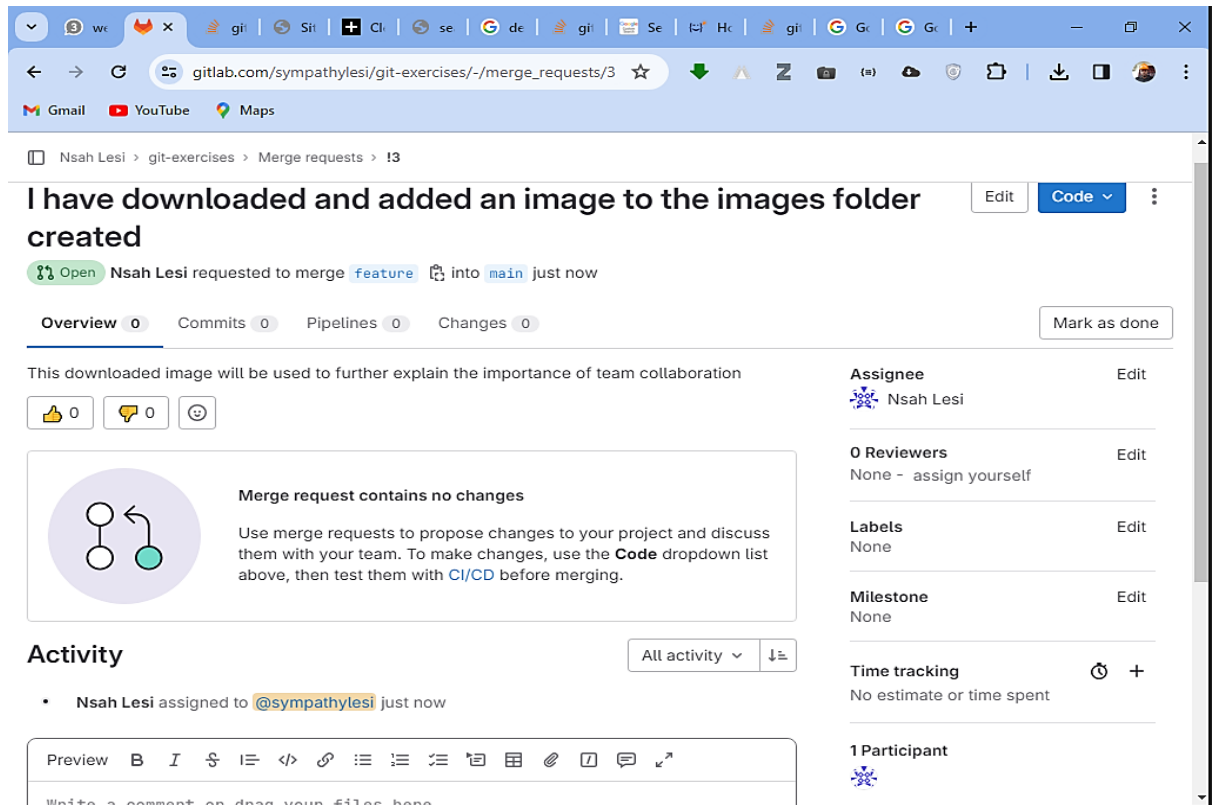
Spelling error 'starte' corrected to 'started' fixed in the application.java file
Nsah Lesi authored 1 minute ago

bugfix git-exercises / + History Compare Find file Edit Clone

Name	Last commit	Last update
gradle/wrapper	Initial commit	1 month ago
images	Image downloaded and added to the imag...	11 minutes ago
src	Spelling error 'starte' corrected to 'started'...	1 minute ago
.gitignore	Required files added to gitignore files and ...	20 minutes ago
README.md	Initial commit	1 month ago
gradlew	Initial commit	1 month ago
settings.gradle	Initial commit	1 month ago

Exercise 5

Merge request created and feature branch merged to main



gitlab.com/sympathylesi/git-exercises/-/merge_requests/3

Nsah Lesi > git-exercises > Merge requests > 13

I have downloaded and added an image to the images folder created

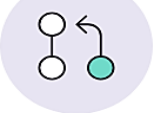
Open Nsah Lesi requested to merge `feature` into `main` just now

Overview 0 Commits 0 Pipelines 0 Changes 0

Mark as done

This downloaded image will be used to further explain the importance of team collaboration

0 0



Merge request contains no changes

Use merge requests to propose changes to your project and discuss them with your team. To make changes, use the **Code** dropdown list above, then test them with **CI/CD** before merging.

Activity All activity ↓

- Nsah Lesi assigned to @sympathylesi just now

Preview B I S L <> P L R T E U

Write a comment or drag your files here

Assignee Edit
Nsah Lesi

0 Reviewers Edit
None - assign yourself

Labels Edit
None

Milestone Edit
None

Time tracking +
No estimate or time spent

1 Participant
Nsah Lesi

Exercise 6

Resolving merge conflicts

```
Administrator: C:\Windows\System32\cmd.exe

D:\git-practice\git-exercises>git status
On branch bugfix
Your branch is up to date with 'origin/bugfix'.

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:   src/main/webapp/index.html

no changes added to commit (use "git add" and/or "git commit -a")
D:\git-practice\git-exercises>git add .
D:\git-practice\git-exercises>git commit -m "Spelling error fixed in index.html file"
[bugfix 1113b60] Spelling error fixed in index.html file
 1 file changed, 1 insertion(+), 1 deletion(-)
D:\git-practice\git-exercises>git add .
D:\git-practice\git-exercises>git commit -m "Image url added to the img tag found in index.html file"
[bugfix f07b94a] Image url added to the img tag found in index.html file
 1 file changed, 1 insertion(+), 1 deletion(-)
D:\git-practice\git-exercises>git push
Enumerating objects: 17, done.
Counting objects: 100% (17/17), done.
Delta compression using up to 4 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (12/12), 1.07 KiB | 365.00 KiB/s, done.
Total 12 (delta 4), reused 0 (delta 0), pack-reused 0
remote:
remote: To create a merge request for bugfix, visit:
remote:   https://gitlab.com/sympathylesi/git-exercises/-/merge_requests/new?merge_request%5Bsource_branch%5D=bugfix
remote:
To https://gitlab.com/sympathylesi/git-exercises.git
 902e27e..f07b94a  bugfix -> bugfix
D:\git-practice\git-exercises>
```

Exercise 7

Creation and reverting of commits

Administrator C:\Windows\System32\cmd.exe

```
Spelling error fixed in index.html file

commit 902e27e651b2be7f320f1fbd2c95a9c435e422f
Author: Nsah Lesi <nsahsympathylesi@gmail.com>
Date: Sat Oct 28 03:40:55 2023 +0100

Spelling error 'starte' corrected to 'started' fixed in the application.java file

commit 478cfd4ee6c8377cb6fca9cd46c6df023c0359e8 (origin/feature, feature)
Author: Nsah Lesi <nsahsympathylesi@gmail.com>
Date: Sat Oct 28 03:31:51 2023 +0100

Image downloaded and added to the images folder

commit 3e463a854c0514e8fa5d4ee490afa79a5b3317d9
Author: Nsah Lesi <nsahsympathylesi@gmail.com>
Date: Sat Oct 28 03:22:44 2023 +0100

Required files added to gitignore files and so removed from remote repo

commit 0173fb595659866d2a8d9f08e52d511e3bae9fcc
Author: Nana Janashia <nana.janashia@mnssoftware.at>
Date: Tue Sep 19 09:45:53 2023 +0100

Initial commit

D:\git-practice\git-exercises>git revert f07b94acecc108b333f54713141317e3280917
[bugfix 626463b] Revert "Image url added to the img tag found in index.html file"
1 file changed, 1 insertion(+), 1 deletion(-)

D:\git-practice\git-exercises>git push
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 4 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (6/6), 582 bytes | 582.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0), pack-reused 0
remote:
remote: To create a merge request for bugfix, visit:
remote: https://gitlab.com/sympathylesi/git-exercises/-/merge_requests/new?merge_request%5Bsource_branch%5D=bugfix
remote:
To https://gitlab.com/sympathylesi/git-exercises.git
 f07b94a..626463b bugfix -> bugfix

D:\git-practice\git-exercises>
```

gitlab.com/sympathylesi/git-exercises/-/tree/bugfix?ref_type=...

Nsah Lesi > git-exercises > Repository

You pushed to bugfix just now

Create merge request

Revert "Image url added to the img tag found in index.html file" ...
Nsah Lesi authored 3 minutes ago

bugfix git-exercises / +

History Compare Find file Edit Clone

Name	Last commit	Last update
gradle/wrapper	Initial commit	1 month ago
images	Image downloaded and added to the imag...	1 hour ago
src	Revert "Image url added to the img tag fo...	3 minutes ago
.gitignore	Required files added to gitignore files and ...	1 hour ago
README.md	Initial commit	1 month ago
gradlew	Initial commit	1 month ago
settings.gradle	Initial commit	1 month ago

Exercise 8

Commits resetting

```
Administrator: C:\Windows\System32\cmd.exe

commit 902e27e651b22be7f320f1fbd2c95a9c435e422f
Author: Nsah Lesi <nsahsympathylesi@gmail.com>
Date: Sat Oct 28 03:40:55 2023 +0100

    Spelling error 'starte' corrected to 'started' fixed in the application.java file

commit 478cfd4ee6c8377cb6fca9cd46c6df023c0359e8 (origin/feature, feature)
Author: Nsah Lesi <nsahsympathylesi@gmail.com>
Date: Sat Oct 28 03:31:51 2023 +0100

    Image downloaded and added to the images folder

commit 3e463a854c0514e8fa5d4ee490afa79a5b3317d9
Author: Nsah Lesi <nsahsympathylesi@gmail.com>
Date: Sat Oct 28 03:22:44 2023 +0100

    Required files added to gitignore files and so removed from remote repo

commit 0173fb595659866d2a8d9fd8e52d511e3bae9fcc

D:\git-practice\git-exercises>git reset --hard HEAD~1
fatal: ambiguous argument 'HEAD~1': unknown revision or path not in the working tree.
Use '--' to separate paths from revisions, like this:
'git <command> [<revision>...] -- [<file>...]'

D:\git-practice\git-exercises>git reset --hard HEAD~1
HEAD is now at 626463b Revert "Image url added to the img tag found in index.html file"

D:\git-practice\git-exercises>
```

Exercise 9

Merging of Bugfix branch to main

```
Administrator: C:\Windows\System32\cmd.exe

D:\git-practice\git-exercises>git branch
* bugfix
  feature
  main

D:\git-practice\git-exercises>git merge main
Merge made by the 'ort' strategy.

D:\git-practice\git-exercises>git branch
* bugfix
  feature
  main

D:\git-practice\git-exercises>git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

D:\git-practice\git-exercises>git push
Everything up-to-date

D:\git-practice\git-exercises>git branch
  bugfix
  feature
* main

D:\git-practice\git-exercises>git merge bugfix
Updating 51b1985..6a3ed8d
Fast-forward
 src/main/webapp/index.html | 2 +
 1 file changed, 1 insertion(+), 1 deletion(-)

D:\git-practice\git-exercises>
```

Exercise 10

Deletion of the created branches (bugfix and feature)

```
Administrator: C:\Windows\System32\cmd.exe
bugfix
feature
* main

D:\git-practice\git-exercises>git branch -d feature
Deleted branch feature (was 478cfd4).

D:\git-practice\git-exercises>git branch -d bugfix
warning: not deleting branch 'bugfix' that is not yet merged to
'refs/remotes/origin/bugfix', even though it is merged to HEAD.
error: The branch 'bugfix' is not fully merged.
If you are sure you want to delete it, run 'git branch -D bugfix'.

D:\git-practice\git-exercises>git branch
bugfix
* main

D:\git-practice\git-exercises>git branch -D bugfix
Deleted branch bugfix (was 6a3ed8d).

D:\git-practice\git-exercises>git branch
* main

D:\git-practice\git-exercises>git push
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 237 bytes | 237.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
To https://gitlab.com/sympathylesi/git-exercises.git
51b1985..6a3ed8d  main -> main

D:\git-practice\git-exercises>git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

D:\git-practice\git-exercises>git push origin --delete feature
To https://gitlab.com/sympathylesi/git-exercises.git
- [deleted]          feature

D:\git-practice\git-exercises>git push origin --delete bugfix
To https://gitlab.com/sympathylesi/git-exercises.git
- [deleted]          bugfix

D:\git-practice\git-exercises>
```

Nсах Lesi > git-exercises > Repository

Merge branch 'main' into bugfix
Nсах Lesi authored 16 minutes ago 6a3ed8d7

main git-exercises / +

Select Git revision

Search by Git revision

Branches 1

- main default

	Last commit	Last update
	Initial commit	1 month ago
	Image downloaded and added to the imag...	1 hour ago
	Revert "Image url added to the img tag fo...	32 minutes ago
.gitignore	Required files added to gitignore files and ...	2 hours ago
README.md	Initial commit	1 month ago
gradlew	Initial commit	1 month ago
settings.gradle	Initial commit	1 month ago

README.md

This project is for the Devops bootcamp exercise for "Version Control"