

Exercises for Module "Version Control with Git"

Nditafon Hyson Nuigho.

Exercise 1: Clone and Create New Repository

Cloning and Pushing to a GitLab Repository

```
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main|REBASE 1/1)
$ git add .
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main|REBASE 1/1)
$ git rebase --continue
[detached HEAD 9ceaf77] Initial commit
Author: Nana Janashia <nana.janashia@nnsoftware.at>
27 files changed, 685 insertions(+)
create mode 100644 .DS_Store
create mode 100644 .gradle/4.10/fileChanges/last-build.bin
create mode 100644 .gradle/4.10/fileHashes/fileHashes.bin
create mode 100644 .gradle/4.10/fileHashes/fileHashes.lock
create mode 100644 .gradle/4.10/gc.properties
create mode 100644 .gradle/4.10/taskHistory/taskHistory.bin
create mode 100644 .gradle/4.10/taskHistory/taskHistory.lock
create mode 100644 .gradle/buildOutputCleanup/buildOutputCleanup.lock
create mode 100644 .gradle/buildOutputCleanup/cache.properties
create mode 100644 .gradle/buildOutputCleanup/outputFiles.bin
create mode 100644 .gradle/vcs-1/gc.properties
create mode 100644 .idea/compiler.xml
create mode 100644 .idea/encodings.xml
create mode 100644 .idea/gradle.xml
create mode 100644 .idea/misc.xml
create mode 100644 .idea/vcs.xml
create mode 100644 .idea/workspace.xml
create mode 100644 build.gradle
create mode 100644 gradle/wrapper/gradle-wrapper.jar
create mode 100644 gradle/wrapper/gradle-wrapper.properties
create mode 100755 gradlew
create mode 100644 gradlew.bat
create mode 100644 settings.gradle
create mode 100644 src/main/java/com/example/Application.java
create mode 100644 src/main/webapp/index.html
create mode 100644 src/test/java/AppTest.java
Successfully rebased and updated refs/heads/main.
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git push origin main
Enumerating objects: 48, done.
Counting objects: 100% (48/48), done.
Delta compression using up to 4 threads
Compressing objects: 100% (28/28), done.
Writing objects: 100% (46/46), 61.00 KiB | 7.63 MiB/s, done.
Total 46 (delta 4), reused 43 (delta 3), pack-reused 0
To gitlab.com:first4722342/devops-master-class
23d4598..9ceaf77 main -> main
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git push origin main
Everything up-to-date
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$
```

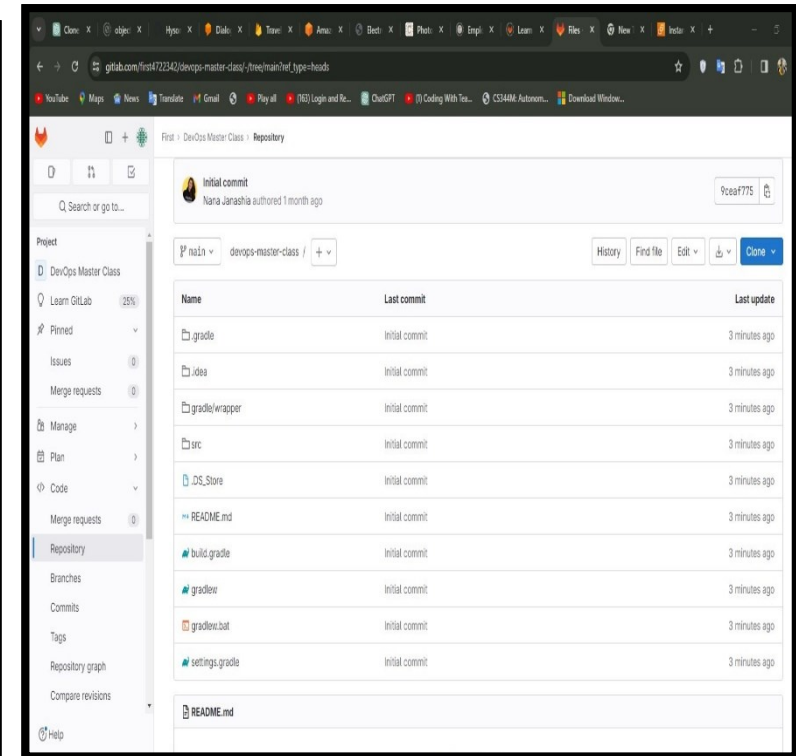
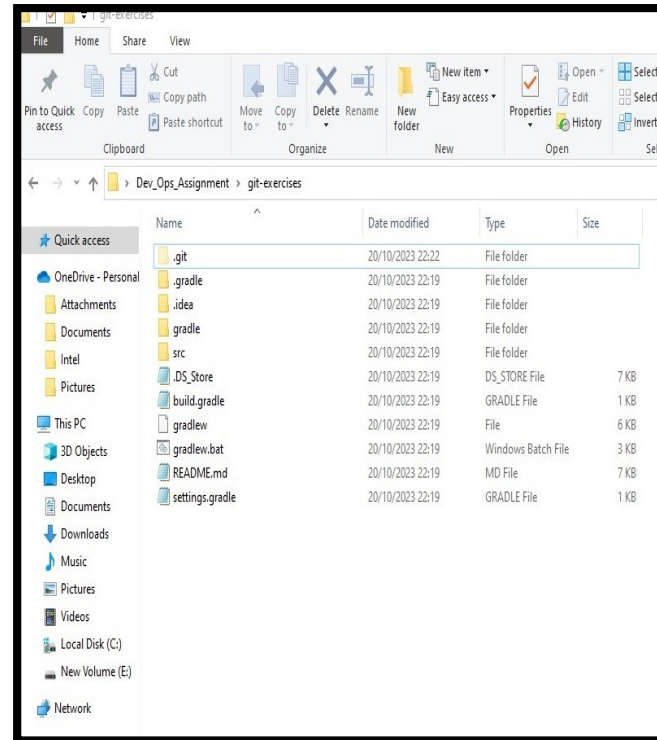


Figure 1: Git script, Local and remote repository for cloning a repository

Exercise 2: .gitignore

Ignoring Unwanted Files and Folders

```
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git add .gitignore

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git commit -m "Add .gitignore file and ignoring .idea/ folders and DS_Store file"
[main c77e381] Add .gitignore file and ignoring .idea/ folders and DS_Store file
8 files changed, 3 insertions(+), 333 deletions(-)
delete mode 100644 .DS_Store
create mode 100644 .gitignore
delete mode 100644 .idea/compiler.xml
delete mode 100644 .idea/encodings.xml
delete mode 100644 .idea/gradle.xml
delete mode 100644 .idea/misc.xml
delete mode 100644 .idea/vcs.xml
delete mode 100644 .idea/workspace.xml

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git push origin main
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), 337 bytes | 337.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
To gitlab.com:first4722342/devops-master-class.git
   9ceaf77..c77e381  main -> main

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ |
```

```
.idea/
.DS_Store
|
```

The screenshot displays the GitLab web interface for a repository named 'devops-master-class'. The main content area shows a list of files and folders with their last commit and update times. The files listed are:

Name	Last commit	Last update
.gradle	Initial commit	1 hour ago
gradle/wrapper	Initial commit	1 hour ago
src	Initial commit	1 hour ago
.gitignore	Add .gitignore file and ignoring .idea/ folders and DS_St...	2 minutes ago
README.md	Initial commit	1 hour ago
build.gradle	Initial commit	1 hour ago
gradlew	Initial commit	1 hour ago
gradlew.bat	Initial commit	1 hour ago
settings.gradle	Initial commit	1 hour ago

The sidebar on the left contains navigation options: Project, Learn GitLab (25%), Pinned, Issues (0), Merge requests (0), Manage, Plan, Code, Merge requests (0), Repository (selected), Branches, Commits, Tags, and Repository graph.

Figure 2: Git script, .gitignore file and the remote repository for ignoring the files and folders.

Exercise 3: Feature Branch

Creating and Committing Feature Changes

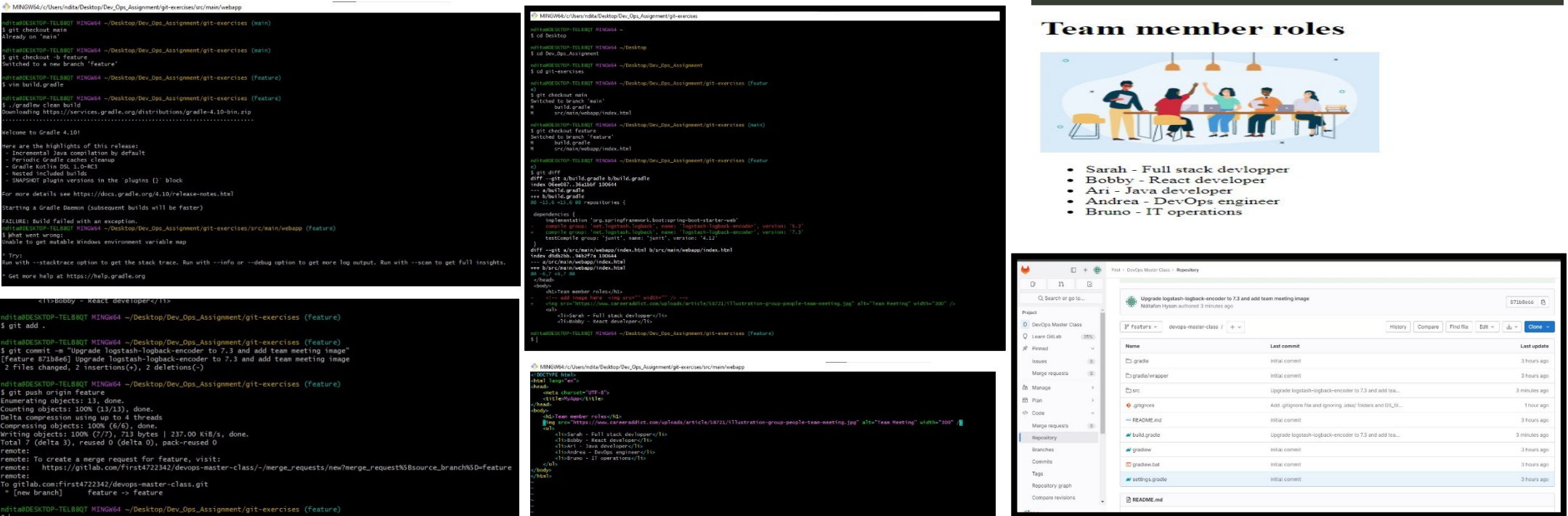


Figure3:Git script showing New branch, Adding image URL, git difference and results in the remote repository.

Exercise 4: Bugfix Branch

Fixing Bugs with a new Branch

MINGW64/c:/Users/ndita/Desktop/Dev_Ops_Assignment/git-exercises/src/main/java/com/example

```
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (feature)
$ git checkout -b bugfix
Switched to a new branch 'bugfix'

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ cd src/main/java/com/example

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises/src/main/java/com/example (bugfix)
$ vim Application.java

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises/src/main/java/com/example (bugfix)
$ git diff
diff --git a/src/main/java/com/example/Application.java b/src/main/java/com/example/Application.java
index a815119..3f37354 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() {

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises/src/main/java/com/example (bugfix)
$ git add .

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises/src/main/java/com/example (bugfix)
$ git commit -m "Fix spelling error in Application.java"
[bugfix acc582d] Fix spelling error in Application.java
1 file changed, 1 insertion(+), 1 deletion(-)

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises/src/main/java/com/example (bugfix)
$ git push origin bugfix
Enumerating objects: 15, done.
Counting objects: 100% (15/15), done.
Delta compression using up to 4 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (8/8), 593 bytes | 197.00 KiB/s, done.
Total 8 (delta 2), reused 0 (delta 0), pack-reused 0
remote:
remote: To create a merge request for bugfix, visit:
remote: https://gitlab.com/first4722342/devops-master-class/-/merge_requests/new?merge_request%5Bsource_branch%5D=bugfix
remote:
To gitlab.com:first4722342/devops-master-class.git
* [new branch]      bugfix -> bugfix

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises/src/main/java/com/example (bugfix)
$ |
```

```
MINGW64/c:/Users/ndita/Desktop/Dev_Ops_Assignment/git-exercises/src/main/java/com/example
package com.example;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import javax.annotation.PostConstruct;

@SpringBootApplication
public class Application {

    public static void main(String[] args)
    {
        SpringApplication.run(Application.class, args);
    }

    @PostConstruct
    public void init()
    {
        Logger log = LoggerFactory.getLogger(Application.class);
        log.info("Java app started");
    }

    public String getStatus() {
        return "OK";
    }
}
```

The screenshot shows the GitLab web interface for a repository named "DevOps Master Class". A merge request titled "Fix spelling error in Application.java" by Nditafon Hyson is displayed. The merge request is from the "bugfix" branch to the "devops-master-class" branch. The table below lists the files included in the merge request.

Name	Last commit	Last update
gradle	Initial commit	3 hours ago
gradle/wrapper	Initial commit	3 hours ago
src	Fix spelling error in Application.java	1 minute ago
.gitignore	Add .gitignore file and ignoring .idea/ folders and DS_St...	2 hours ago
README.md	Initial commit	3 hours ago
build.gradle	Upgrade logstash-logback-encoder to 7.3 and add tea...	24 minutes ago
gradlew	Initial commit	3 hours ago
gradlew.bat	Initial commit	3 hours ago
settings.gradle	Initial commit	3 hours ago
README.md		

Figure 4: Git script for creating a new branch and correcting the spelling error (*starte* -> *started*) and results on Gitlab.

Exercise 5: Merge Request

Merging Feature Branch into Master

1 merge request #1 Merging feature into main branch

Changes 2

Showing 2 changed files with 2 additions and 2 deletions

Hide whitespace changes Inline Side-by-side

View file @ 2c047f22

build.gradle

```
... -15,6 +15,6 @@ repositories {
15 15
16 16
17 17 dependencies {
18 17 implementation 'org.springframework.boot:spring-boot-starter-web'
19 18 compile group: 'net.logstash.logback', name: 'logstash-logback-encoder', version: '5.2'
20 19 compile group: 'net.logstash.logback', name: 'logstash-logback-encoder', version: '7.3'
21 20 testCompile group: 'junit', name: 'junit', version: '4.12'
22 21 }
```

src/main/webapp/index.html

```
... -5,7 +5,7 @@
6 6 </head>
7 7 <body>
8 8 <h1>Team member roles</h1>
9 9 <!-- add image here --> <img src="" width="" /> -->
10 10 
11 11 <ul>
12 12 <li>Sarah - Full stack developer</li>
13 13 <li>Bobby - React developer</li>
14 14 </ul>
15 15
```

First > DevOps Master Class > Merge requests > #1

Search or go to...

Project

DevOps Master Class

Learn GitLab 25%

Pinned

Issues 0

Merge requests 1

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Plan

Code

Build

Secure

Deploy

Operate

Monitor

Analyze

Merging feature into main branch

Open Nditafon Hyson requested to merge feature into main just now

Overview 0 Commits 0 Pipelines 0 Changes 0

Mark as done

This is just an exercise on how to merge

0 0 0

8 Approve Approval is optional

Ready to merge!

☐ Delete source branch ☐ Squash commits ☒ Edit commit message

1 commit and 1 merge commit will be added to main.

Merge

Activity

All activity 1

Nditafon Hyson requested review from @Hyson-Wayne just now

Nditafon Hyson assigned to @Hyson-Wayne just now

1 Participant

Assignee Nditafon Hyson

Reviewer Nditafon Hyson

Labels None

Milestone None

Time tracking No estimate or time spent

First > DevOps Master Class > Merge requests > #1

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DevOps Master Class

Learn GitLab 25%

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Issues 0

Merge requests 1

Manage

Plan

Code

Build

Secure

Deploy

Operate

Monitor

Analyze

Merging feature into main branch

Open Nditafon Hyson requested to merge feature into main just now

Overview 0 Commits 0 Pipelines 0 Changes 0

Mark as done

This is just an exercise on how to merge

0 0 0

8 Approve Approval is optional

Ready to merge!

☐ Delete source branch ☐ Squash commits ☒ Edit commit message

1 commit and 1 merge commit will be added to main.

Merge

Activity

All activity 1

Nditafon Hyson requested review from @Hyson-Wayne just now

Nditafon Hyson assigned to @Hyson-Wayne just now

1 Participant

Assignee Nditafon Hyson

Reviewer Nditafon Hyson

Labels None

Milestone None

Time tracking No estimate or time spent

Figure 5: Merging of Feature Branch into Master Branch showing the changes and approval of the merge request.

Exercise 6: Fix Merge Conflict

Resolving Merge Conflicts

MINGW64/c:/Users/ndita/Desktop/Dev_Ops_Assignment/git-exercises

```
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git checkout bugfix
Switched to branch 'bugfix'

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ vim build.gradle

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git checkout main
Switched to branch 'main'
M    build.gradle
Your branch is up to date with 'origin/main'.

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ vim build.gradle

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git checkout main
Already on 'main'
M    build.gradle
Your branch is up to date with 'origin/main'.

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git pull
Already up to date.

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git checkout bugfix
Switched to branch 'bugfix'
M    build.gradle

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git merge main
Merge made by the 'ort' strategy.

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git add .

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git commit -m "Merge main into bugfix branch"
[bugfix c576962] Merge main into bugfix branch
1 file changed, 2 insertions(+), 2 deletions(-)

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git commit -m "Merge main into bugfix branch"
On branch bugfix
nothing to commit, working tree clean
```

```
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git add .

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git commit -m "Merge main into bugfix branch"
[bugfix c576962] Merge main into bugfix branch
1 file changed, 2 insertions(+), 2 deletions(-)

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git commit -m "Merge main into bugfix branch"
On branch bugfix
nothing to commit, working tree clean

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git push origin bugfix
Enumerating objects: 8, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 4 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 551 bytes | 551.00 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0
remote:
remote: To create a merge request for bugfix, visit:
remote:   https://gitlab.com/first4722342/devops-master-class/-/merge_requests/new?merge_request%5Bsource_branch%5D=bugfix
remote:
To gitlab.com:first4722342/devops-master-class.git
acc582d..c576962  bugfix -> bugfix

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ |
```

First > DevOps Master Class > Repository

Merge main into bugfix branch
Nditaon Hyson authored 2 minutes ago

bugfix / devops-master-class / +

History Compare Find file Edit Clone

Name	Last commit	Last update
gradle	Initial commit	16 hours ago
gradle/wrapper	Initial commit	16 hours ago
src	Fix spelling error in Application.java	12 hours ago
.gitignore	Add .gitignore file and ignoring .idea/ folders and DS_St...	14 hours ago
README.md	Initial commit	16 hours ago
build.gradle	Merge main into bugfix branch	2 minutes ago
gradlew	Initial commit	16 hours ago
gradlew.bat	Initial commit	16 hours ago
settings.gradle	Initial commit	16 hours ago

Figure 6: Git script for resolving the merge conflict and the results on the remote repository.

Exercise 7: Revert Commit

Reverting and Fixing Mistakes

MINGW64~/c/Users/ndita/Desktop/Dev_Ops_Assignment/git-exercises

```
ndita@DESKTOP-TEL8QQT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ vim src/main/webapp/index.html
```

```
ndita@DESKTOP-TEL8QQT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ vim src/main/webapp/index.html
```

```
ndita@DESKTOP-TEL8QQT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ vim src/main/webapp/index.html
```

```
ndita@DESKTOP-TEL8QQT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git add index.html
fatal: pathspec 'index.html' did not match any files
```

```
ndita@DESKTOP-TEL8QQT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git add .
```

```
ndita@DESKTOP-TEL8QQT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git commit -m "Fix spelling mistake in index.html"
[bugfix e77c9ef] Fix spelling mistake in index.html
1 file changed, 2 insertions(+), 2 deletions(-)
```

```
ndita@DESKTOP-TEL8QQT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ vim src/main/webapp/index.html
```

```
ndita@DESKTOP-TEL8QQT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git add .
```

```
ndita@DESKTOP-TEL8QQT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git commit -m "Update image URL in index.html"
On branch bugfix
nothing to commit, working tree clean
```

```
ndita@DESKTOP-TEL8QQT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git push origin bugfix
```

```
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), 506 bytes | 506.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0), pack-reused 0
```

```
remote: To create a merge request for bugfix, visit:
remote: https://gitlab.com/first4722342/devops-master-class/-/merge_requests/new?merge_requests[source_branch]=bugfix
remote:
To gitlab.com:first4722342/devops-master-class.git
c576962..e77c9ef bugfix -> bugfix
```

```
ndita@DESKTOP-TEL8QQT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ |
```

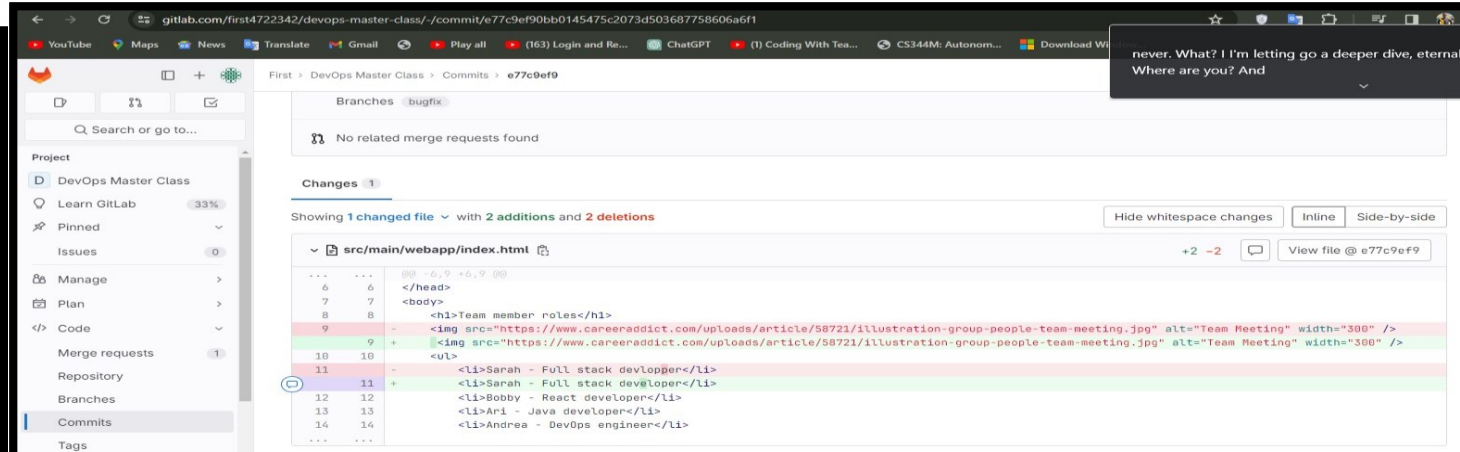


Figure 7: Git script for editing a file, reverting the changes and showing results on Gitlab.

Exercise 8: Reset Commit

Undoing a Local Commit

```
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git reset --hard HEAD~1
HEAD is now at a2f1b0b Revert "Fix spelling mistake in index.html"

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git log
commit a2f1b0ba510ded782896536d41f857dc869ca02a (HEAD -> bugfix, origin/bugfix)
Author: Hyson-Wayne <nditafonhysonn@gmail.com>
Date: Sat Oct 21 14:49:44 2023 +0100

    Revert "Fix spelling mistake in index.html"

    This reverts commit e77c9ef90bb0145475c2073d503687758606a6f1.

    Reinstated the previous image

commit e77c9ef90bb0145475c2073d503687758606a6f1
Author: Hyson-Wayne <nditafonhysonn@gmail.com>
Date: Sat Oct 21 14:41:51 2023 +0100

    Fix spelling mistake in index.html

commit c576962004ab41fe16d910f976dc92cd8a74fcf6
Author: Hyson-Wayne <nditafonhysonn@gmail.com>
Date: Sat Oct 21 14:18:45 2023 +0100

    Merge main into bugfix branch

commit 57504e203dd2a1d8b30057e631d2a6200b2f4d4a
Merge: acc582d 2c047f2
Author: Hyson-Wayne <nditafonhysonn@gmail.com>
Date: Sat Oct 21 14:02:12 2023 +0100

    Merge branch 'main' into bugfix
    This is just an assignment for merging main into bugfix

commit 2c047f22e8babb3dea12fa060138ad07c8319c9b (origin/main, main)
Merge: c77e381 871b8e6
Author: Nditafon Hyson <nditafonhysonn@gmail.com>
Date: Sat Oct 21 08:59:43 2023 +0000

    Merge branch 'feature' into 'main'

    Merging feature into main branch

    See merge request first4722342/devops-master-class!1

commit acc582db094407f4341629a58b9d293689019257
Author: Hyson-Wayne <nditafonhysonn@gmail.com>
```

```
MINGW64:/c/Users/ndita/Desktop/Dev_Ops_Assignment/git-exercises

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ vim src/main/webapp/index.html

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ vim src/main/webapp/index.html

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git add src/main/webapp/index.html

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git commit -m "Fix Bruno's role in index.html"
[bugfix befc806] Fix Bruno's role in index.html
1 file changed, 1 insertion(+), 1 deletion(-)

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (bugfix)
$ git log
commit befc80661235b0bc22c0e6146da2006193ce1277 (HEAD -> bugfix)
Author: Hyson-Wayne <nditafonhysonn@gmail.com>
Date: Sat Oct 21 18:06:50 2023 +0100

    Fix Bruno's role in index.html
```

*Figure 8: Git script showing changes to Bruno(Role -> **Devops Engineer**) and Results after removing Bruno commit in the local repository.*

Exercise 9: Merge

Merging without a Merge Request

MINGW64: c:/Users/ndita/Desktop/Dev_Ops_Assignment/git-exercises

```
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git checkout main
Already on 'main'
Your branch is up to date with 'origin/main'.

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git pull origin main
From gitlab.com:first4722342/devops-master-class
 * branch      main       -> FETCH_HEAD
Already up to date.

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git merge bugfix
Already up to date.

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git commit -m "Merge bugfix branch into master"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git push origin master
error: src refspec master does not match any
error: failed to push some refs to 'gitlab.com:first4722342/devops-master-class.git'

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git push origin main
Everything up-to-date

ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ |
```

main

devops-master-class /

+

History

Find file

Edit

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Name	Last commit	Last update
gradle	Initial commit	20 hours ago
gradle/wrapper	Initial commit	20 hours ago
src	Revert "Fix spelling mistake in index.html"	3 hours ago
.gitignore	Add .gitignore file and ignoring .idea/ folders and DS_St...	18 hours ago
README.md	Initial commit	20 hours ago
build.gradle	Merge main into bugfix branch	4 hours ago
gradlew	Initial commit	20 hours ago
gradlew.bat	Initial commit	20 hours ago
settings.gradle	Initial commit	20 hours ago

README.md

<<<<<< HEAD

Figure 9: Git script for merging bugfix branch into main branch and results on Gitlab.

Exercise 10: Delete Branches

Cleaning Up Branches Locally and Remotely

MINGW64/c/Users/ndita/Desktop/Dev_Ops_Assignment/git-exercises

```
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git branch -d feature
Deleted branch feature (was 871b8e6).
```

```
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git branch -d bugfix
Deleted branch bugfix (was a2f1b0b).
```

```
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git branch -D bugfix
error: branch 'bugfix' not found.
```

```
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git push origin --delete feature
To gitlab.com:first4722342/devops-master-class.git
- [deleted]      feature
```

```
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git push origin --delete bugfix
To gitlab.com:first4722342/devops-master-class.git
- [deleted]      bugfix
```

```
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git branch
* main
```

```
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ git ls-remote --heads origin
a2f1b0ba510ded782896536d41f857dc869ca02a      refs/heads/main
```

```
ndita@DESKTOP-TEL88QT MINGW64 ~/Desktop/Dev_Ops_Assignment/git-exercises (main)
$ |
```

The screenshot shows the GitLab web interface for the repository 'devops-master-class'. At the top, there is a commit titled 'Revert "Fix spelling mistake in index.html"' by Nditafon Hyson, authored 3 hours ago, with commit hash a2f1b0ba. Below this, a dropdown menu for 'main' is open, showing 'main' as the default branch. The main content area displays a table of commit history with columns for 'Last commit' and 'Last update'. The table lists several commits, including the initial commit and a revert. Below the table, a file list is shown, including .gitignore, README.md, build.gradle, gradlew, gradlew.bat, and settings.gradle. The README.md file is selected, showing its content, which includes a section for 'HEAD'.

	Last commit	Last update
	Initial commit	20 hours ago
	Initial commit	20 hours ago
	Revert "Fix spelling mistake in index.html"	3 hours ago
.gitignore	Add .gitignore file and ignoring .idea/ folders and DS_St...	18 hours ago
README.md	Initial commit	20 hours ago
build.gradle	Merge main into bugfix branch	4 hours ago
gradlew	Initial commit	20 hours ago
gradlew.bat	Initial commit	20 hours ago
settings.gradle	Initial commit	20 hours ago

Figure 10: Git script for deleting the feature and bugfix branch and showing results locally and remotely.