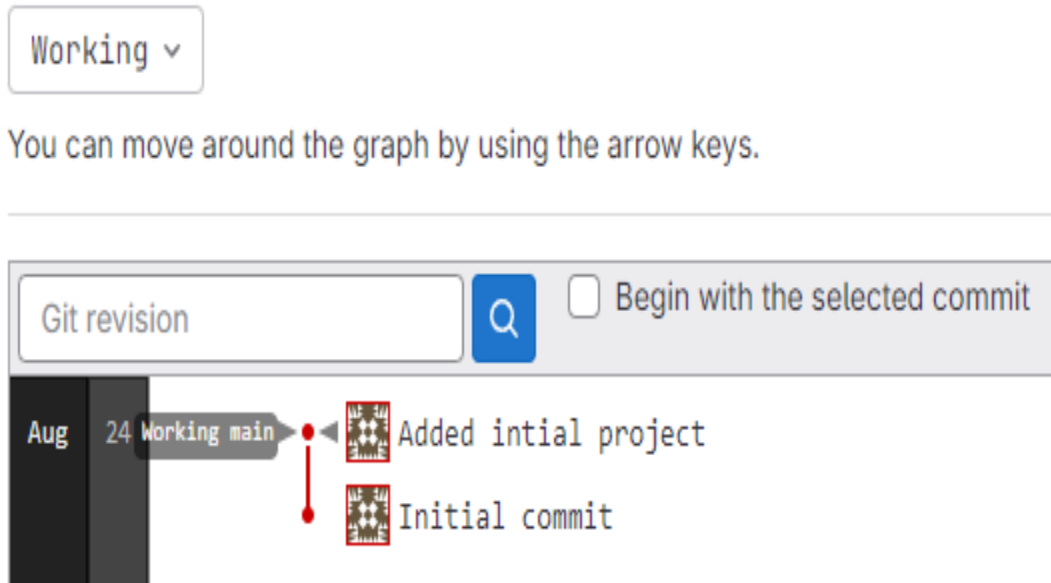# D197 - Version Control Template

Step A Screenshot

Below is a screenshot of the current repository graph in Gitlab after completing the steps in A:

Step B Screenshot

Below is a screenshot of the command line action after completing the steps in B:

I was having problems with cloning at first because I was logged into my personal email instead of my school email so I had to make a global user.name and create a new token for me to clone.

Step C Screenshot

Below is a screenshot for each git command for each change made to the HTML files after completing the steps in C:

```
JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working)
$ notepad about.html

JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working)
$ git add about.html

JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working)
$ git commit -m "Changed the first sentence in the about us paragraph"
[Working da40e15] Changed the first sentence in the about us paragraph
 1 file changed, 1 insertion(+), 1 deletion(-)
```

I used ls to see a list of the files and notepad to open the first file. I made a small change and save the file before adding and committing.

```
JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working)
$ notepad customers.html

JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working)
$ git add customers.html

JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working)
$ git commit -m "Updated customer 2 review"
[Working 4af7898] Updated customer 2 review
 1 file changed, 1 insertion(+), 1 deletion(-)
```

I did the same for the customer.html file.

```
JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working)
$ notepad vision.html

JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working)
$ git add vision.html

JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working)
$ git commit -m "Added more to mission statement"
[Working 201062e] Added more to mission statement
 1 file changed, 1 insertion(+), 1 deletion(-)

JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working)
$
```

My last change was to the vision.html file.

Below is a screenshot of the command line action after completing the steps in C:

```
JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working)
$ git push origin main
Everything up-to-date
```

I pushed the changes in this local repository to the main branch.

Step D Two Screenshots

Below is a screenshot of the command line action after completing the steps in D:

```
JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working)
$ git checkout -b Test
Switched to a new branch 'Test'
```

Switch the working directory to the specified branch. Adding -b to checkout will create the branch if it does not already exist.

```
JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Test)
$ notepad README.md
```

Open the read me file with notepad.

```
JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Test)
$ git add README.md

JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Test)
$ git commit -m "Added student ID near the end"
[Test c946b56] Added student ID near the end
 1 file changed, 3 insertions(+)
```
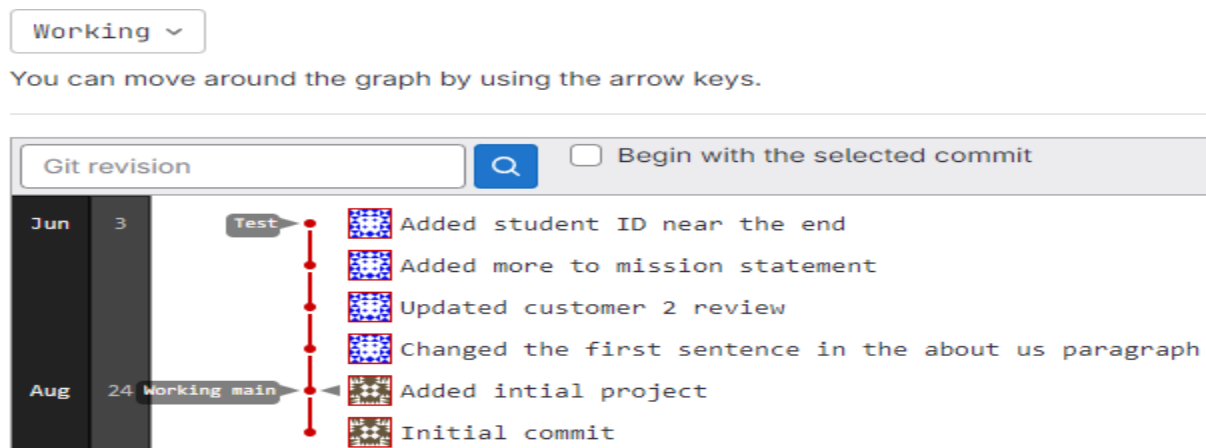
Saved the notepad file and closed it before adding and committing.

```
JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Test)
$ git push origin Test
Enumerating objects: 17, done.
Counting objects: 100% (17/17), done.
Delta compression using up to 8 threads
Compressing objects: 100% (12/12), done.
Writing objects: 100% (12/12), 1.32 KiB | 1.32 MiB/s, done.
Total 12 (delta 8), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: To create a merge request for Test, visit:
remote:   https://gitlab.com/wgu-gitlab-environment/student-repos/jtruo35/d197-version-control/-/merge_requests/new?merge_request%5Bsource_branch%5D=
Test
remote:
To https://gitlab.com/wgu-gitlab-environment/student-repos/jtruo35/d197-version-control.git
 * [new branch]      Test -> Test
```

I pushed the local changes to the Test branch.

Below is a screenshot of the current repository graph in Gitlab after completing the steps in D:

Step E Two Screenshots

Below is a screenshot that demonstrates the conflict of a merge command line action after completing the steps in E:

```
JoshyBoi@DESKTOP-BB1F9D0 MINGW64 ~/d197-version-control (Test)
$ git push --set-upstream origin Test
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 8 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (8/8), 270.04 KiB | 27.00 MiB/s, done.
Total 8 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: To create a merge request for Test, visit:
remote:   https://gitlab.com/wgu-gitlab-environment/student-repos/jtruo35/d197-version-control/-/merge_requests/new?merge_request%5Bsource_branch%5D=Test
remote:
To https://gitlab.com/wgu-gitlab-environment/student-repos/jtruo35/d197-version-control.git
   c946b56..8d6afa8  Test -> Test
branch 'Test' set up to track 'origin/Test'.

JoshyBoi@DESKTOP-BB1F9D0 MINGW64 ~/d197-version-control (Test)
$ git checkout Working
Switched to branch 'Working'
Your branch is ahead of 'origin/Working' by 3 commits.
  (use "git push" to publish your local commits)

JoshyBoi@DESKTOP-BB1F9D0 MINGW64 ~/d197-version-control (Working)
$ git version
git version 2.44.0.windows.1

JoshyBoi@DESKTOP-BB1F9D0 MINGW64 ~/d197-version-control (Working)
$ nano README.md

JoshyBoi@DESKTOP-BB1F9D0 MINGW64 ~/d197-version-control (Working)
$ git merge Test
error: Your local changes to the following files would be overwritten by merge:
        README.md
Please commit your changes or stash them before you merge.
Aborting
Merge with strategy ort failed.

JoshyBoi@DESKTOP-BB1F9D0 MINGW64 ~/d197-version-control (Working)
$ git add README.md

JoshyBoi@DESKTOP-BB1F9D0 MINGW64 ~/d197-version-control (Working)
$ git merge Test
error: Your local changes to the following files would be overwritten by merge:
  README.md
Merge with strategy ort failed.

JoshyBoi@DESKTOP-BB1F9D0 MINGW64 ~/d197-version-control (Working)
$ git commit -m "Added version number to README file in Working branch"
[Working e4ca25f] Added version number to README file in Working branch
 1 file changed, 2 insertions(+), 3 deletions(-)

JoshyBoi@DESKTOP-BB1F9D0 MINGW64 ~/d197-version-control (Working)
$ git merge Test
Auto-merging README.md
CONFLICT (content): Merge conflict in README.md
Automatic merge failed; fix conflicts and then commit the result.

JoshyBoi@DESKTOP-BB1F9D0 MINGW64 ~/d197-version-control (Working|MERGING)
$ |
```

I used git –version to get the current version and open the README file to add the git version number at the top of the file. I saved and closed the file before I tried to merge it with the Test branch, but I got an error.

```
JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working|MERGING)
$ nano README.md

JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working|MERGING)
$ git add README.md

JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working|MERGING)
$ git commit -m "Resolved the conflict by keeping both version number and student ID"
[Working 434053a] Resolved the conflict by keeping both version number and student ID

JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working)
$ git push

Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 755 bytes | 755.00 KiB/s, done.
Total 6 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: To create a merge request for Working, visit:
remote:   https://gitlab.com/wgu-gitlab-environment/student-repos/jtruo35/d197-version-control/-/merge_requests/new?merge_request%5Bsource_branch%5D=Working
remote:
To https://gitlab.com/wgu-gitlab-environment/student-repos/jtruo35/d197-version-control.git
   201062e..434053a  Working -> Working
```
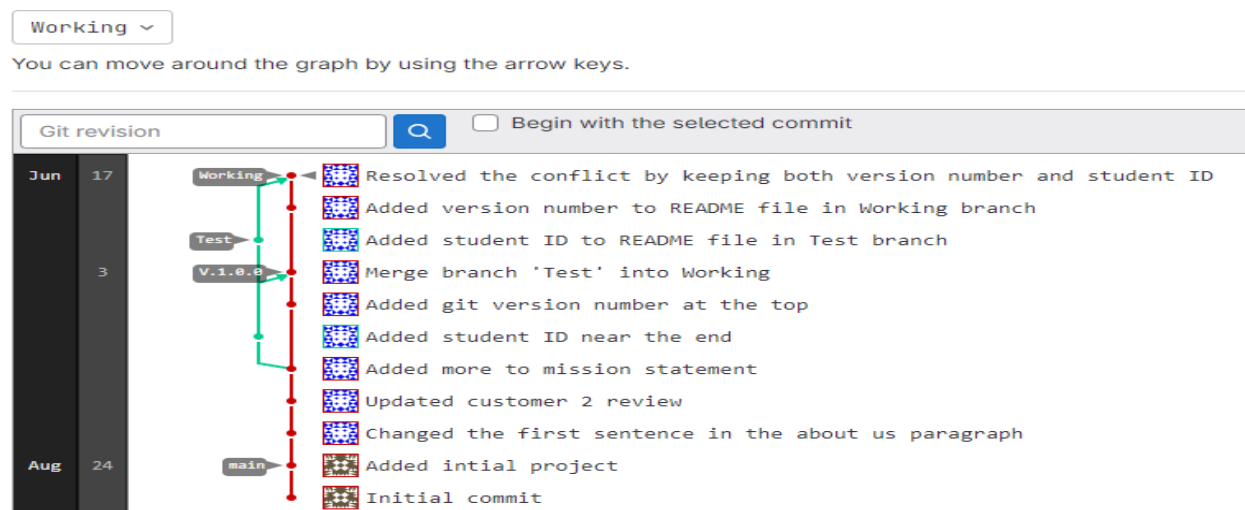
I opened the README file and deleted the conflict markers to combine the changes and then saved and closed the file. Then I added, commit and pushed the changes.

Below is a screenshot of the current repository graph in Gitlab after completing the steps in E:

Step F Two Screenshots

Below is a screenshot of the command line action after completing the steps in F:

```
JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working)
$ git tag -a V.1.0.0
fatal: no tag message?

JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working)
$ ^C

JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working)
$ git tag -a V.1.0.0 -m "Version 1.0.0"

JoshyBoi@DESKTOP-BB1F9DO MINGW64 ~/d197-version-control (Working)
$ git push origin V.1.0.0
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 8 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (7/7), 758 bytes | 758.00 KiB/s, done.
Total 7 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)
To https://gitlab.com/wgu-gitlab-environment/student-repos/jtruo35/d197-version-control.git
 * [new tag]         V.1.0.0 -> V.1.0.0
```

Create a tag object named V.1.0.0 but got an error. I added a tag message after and tried again and it worked. I pushed the changes to the new tag.

Below is a screenshot of the current repository graph in Gitlab after completing the steps in F:

Tags give the ability to mark specific points in history as being important

V.1.0.0

dc16bd08 · Merge branch 'Test' into Working · 10 minutes ago

Version 1.0.0

Working ⌄

You can move around the graph by using the arrow keys.

Git revision		Begin with the selected commit
Jun 17	Working	Resolved the conflict by keeping both version number and student ID
		Added version number to README file in Working branch
	Test	Added student ID to README file in Test branch
3	V.1.0.0	Merge branch 'Test' into Working
		Added git version number at the top
		Added student ID near the end
		Added more to mission statement
		Updated customer 2 review
		Changed the first sentence in the about us paragraph
Aug 24	main	Added intial project
		Initial commit