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ET721

**Project 1 - Basics of Version Control**

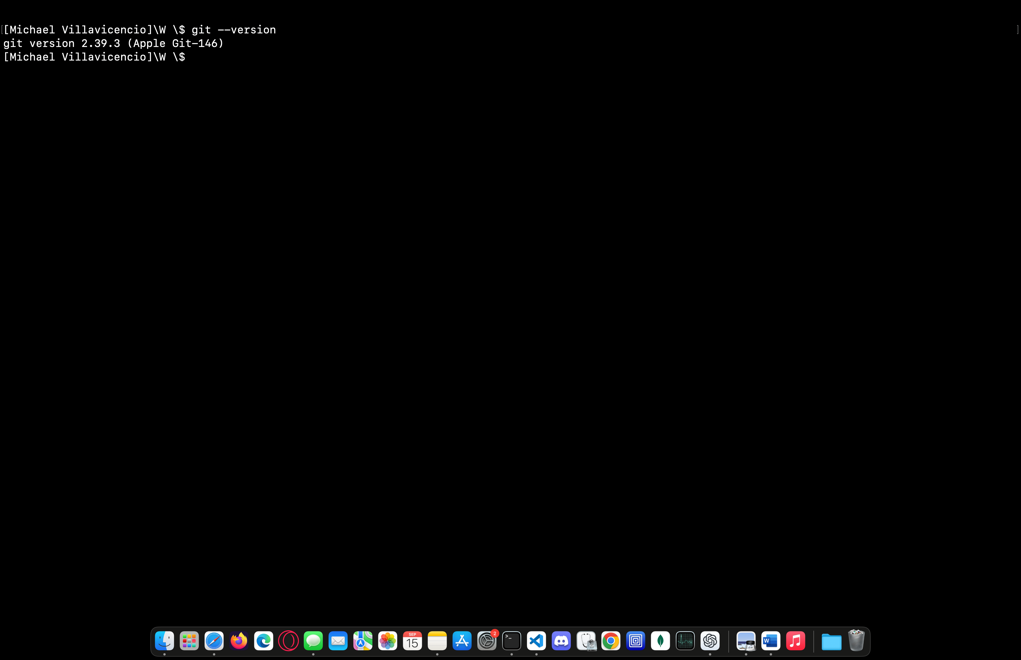
**Deliverables for Task 0 –**

Setup your local environment

Both Student A and B each are expected to deliver all of the following:

o Individually screenshots of:

* Successfully installed git (git --version)



* Successfully setup SSH auth to communicate to GitHub (ssh -T [git@github.com](mailto:git@github.com))

A computer screen with white text

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* Successfully cloned repository (git clone)



* Exceeds requirements: successful config setup (git config --list)

A screenshot of a computer screen

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* Links to their GitHub account

<https://github.com/mvillavicenciolenes>

o Two sentences in responses to each question below:

1. What is GitHub and why did you have to create a repository there?

GitHub is an online platform where developers can store their code, track changes, and collaborate with others. I created a repository there to keep my project organized, share it with Ragvir, and make it easy to manage updates and changes

1. Why did you have to set up SSH and connect the public key to your account?

Setting up SSH with a public key makes it easier and safer to connect to GitHub from my computer without having to enter a password each time. It ensures that all the changes I push or pull are secure and properly authenticated.

**Step 1 - Small change**

Start by making a small change in the repository.

Student A:

1. Edit the README.md file by putting your name at the end of the file.

2. Commit the change using git add README.md to stage the changes and then commit with git commit -m

"Updated README with my name Student A".

3. Push the change to GitHub using git push to share the version with Student B

A screen shot of a computer

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**Step 2 - Bug fixes**

There are two bugs present in the code. Each student needs to find one bug, commit the solution, and push it to the remote repository.

You can find the bugs by running the application a couple of times:

A computer screen shot of a black screen

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Take a screenshot of the terminal showing git log with commits that solve those bugs

Provide a link to the GitHub commit history for your repository showing the commits present

**Deliverables for Task 1 - Initial Commit and Push**

Both Student A and B are expected to deliver each of the following separately:

o Screenshots of:

1. The local output of the command git log showing the commits made

A screen shot of a computer

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1. A GitHub remote repository history showing the commit pushed to remote repository
2. Screenshot of the bug and your solution

Bug =

A screenshot of a computer

Description automatically generated

Solution =

A screenshot of a computer

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o Two sentences on why you had to do git pull before you were able to push if your teammate made their changes first.

You need to perform a git pull before pushing your changes if your teammate has made changes first to ensure that your local repository is up-to-date with the latest changes from the remote repository. This helps prevent merge conflicts that could arise if your local changes are not aligned with the recent updates made by your teammate.

**Task 2 - Branching and Pull Requests, 1 Step**

Warning: as to not jump ahead, please make sure to complete this task sequentially. Start with Student A and then

repeat as Student B.

Branches are used to develop features isolated from each other. The main branch is the default branch where the source code of HEAD always reflects a production-ready state.

Pull Requests are used to tell others about changes you've pushed to a branch in a repository on GitHub. Once a pull request is opened, you can discuss and review the potential changes with collaborators.