Link to GitHub Repository and Screenshot

Link to Merge Commit and Screenshot

Link to Pull Request and Screenshot

A Problem Statement

* ***What is the problem version control solves?***

Developers are unable to properly go back to previous instances of code or track all changes throughout the progression of development.

* + ***Who is experiencing the problem?***

Small – medium development companies without a proper or self-implemented system.

* + ***What are our requirements for a possible solution?***

All changes are tracked and easily discernible with the ability to go back to previous instances.

* ***How does this solution (Git) solve this problem?***

It also has a history (Commits) which show all previous changes to the development and is able to roll back to a previous one.

* + ***What are its advantages?***

Branching and merging capabilities are easy.

Free and open source.

Personal use and personal hosting.

Push/Pull operations are fast, saving time throughout the development.

Good and fast network performance.

* + ***What are its disadvantages?***

Requires technical excellence and slower on windows.

Poor GUI and usability.

Every user has entire repository on their device no matter what, taking lots of space, which interferes with Gits amount of allocated space per repository.

Lacks window support and doesn’t track empty folders.

There is no built-in access control, and it doesn’t support binary files.

Do not provide access control mechanisms in-case of security.

Process of packing is entirely costly.

Resource List

* EDUCBA - <https://www.educba.com/introduction-to-git/>
* TechTarget - <https://www.techtarget.com/searchitoperations/answer/How-to-roll-back-Git-code-to-a-previous-commit>
* Jared’s big brain