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02/12/2021

CIT227

In a Word document, describe in your own terms what Source Control is, what its benefits are and the problems that it sets out to solve.

A source control is a program that allows files to be accessed, save changes over time and allow you to even recall older files before changes were made. If mistakes are made it can be undone and it also allows for multiple people to access files from multiple locations to work on each section and updating them for everyone who's accessing the files.

Additionally, describe the following GIT operations in your own words:

* Clone – The clone allows you to clone a copy of the repository.
* add, mv and rm (add, rename, delete) - add mc and rm allow you to add, rename and delete a directory or a file.
* Commit – A commit holds the current repository as is, in its current state. Each commit has a pointer to the parent commit. You can view history of commit to go backward if needed.
* Push – a push copies any changes made to the local repository. It permanently saves the changes to the git repository.
* Pull- When you make a change the pull operation copies those changes from a repote repository instance to a local. It syncs between two repositry instances.
* Branch – A branch is used to add another line of development. Normally a branch is created to create/experiment with a new feature. If the feature works/is completed, then you can merge it back to the main branch. If it doesn’t come out as expected it can be deleted and never becomes a part of the project.
* Merge - if a branch is created, merge allows you to take the branch and combines it into the main branch, merging the two branches into one.

The description will be worth 10 points and the description of the GIT operations will be worth 10, for a total of 20 points.