VERSION CONTROL SOFTWARE

Version control tool is used to keep track of every modification made to the code and thus prevents concurrent work from conflicting. Therefore, if any mistakes are made, we can compare the earlier versions of code and fix the mistake without any disruption.

SOFTWARES REVIEWED:

1.GIT: It is widely used and one of the best available open source version tool. I would like to continue my work on it as it comparatively fast and efficient. It enables us to work on different types of computers and software packages and provides a strong support in nonlinear mode of software development. It provides cryptographic history authentication. It is highly compatible with the existing systems and protocols. The repository model is distributive in nature and is capable of handling projects of various size efficiently. Changes made to the code can be tracked and cleared easily. And it provides an amazing command line interface to commit and push within a few clicks.

2.SVN: Apache sub version, is abbreviated as SVN. The repository model is client-server based. It supports atomic commits and versioned symbolic links. Various operations like copying, deleting, renaming etc are versioned. It does not store the modification time of the files and does not have filename normalization.

3.CVS: Client-server repository model. Multiple developers might work on the same project parallelly. CVS client will keep the working copy of the file up-to-date and requires manual intervention only when an edit conflict occurs. Keeps a historical snapshot of the project. Robust and fully featured command-line permits powerful scripting. It's a very old, well known and understood tool. It does not support integrity check for the source code and provides poor support for distributed source control.

4.MERCURIAL: Mercurial is a distributed revision control tool. It is written in python and is intended for software developers. It supports operating systems like Windows, linux -like and macOS. It has high performance and scalability, advanced branching and merging capabilities. It provides a fully distributed collaborative development. It handles both plain text and binary files robustly. It possesses an integrated web interface. It is conceptually simple and easy to learn.