

Software Engineering - Lab 1

Survey on few version control tools

1. Git

Git supports non-linear development and has distributed repository model. It can efficiently handle large projects. It has an efficient performance, cross-platform, changes in the code can be easily tracked and the user interface is also easily manageable. There can be difficulty in understanding complex and bigger history log but this does not serve as a major problem. Hence this is one of the best version control tools available in the market.

2. Concurrent Versions System

CVS is yet another open source version control tool. It supports multiple developers to work on the same project parallelly and has client- server repository. But there is no integrity checking for source code repository. It has cross-platform support and fully featured command- line but does not support atomic check -outs and commits.

3. Apache Subversion

It is open source tool with a client- server repository model. It supports atomic commits and has good GUI tools. It helps in merge tracking but does not store the modification time of files.

Why Git?

Git is the most widely used version control tool and has services like GitHub and Bit bucket which we are familiar with and have used it for our projects.