***Version Control System***

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Version Control, one of the most basic and crucial things in software development. We all know that a particular software product is created by so many people. Each person has their own contribution to the project. So *VCS* helps us in keeping track of all the modifications done by the contributors and also can help in easy collaboration.

There comes the crucial role of the *Version Control System*. VCS (Version Control System) is a software tool that helps in recording changes made to files by keeping a track of all the modifications done to the code. This software helps the developer team to efficiently communicate and manage all the changes that are made. We can create something called a “branch” for each developer and they can make their changes.

The changes done in each branch are tested properly individually and then later merged into one main branch where all these different branches of code start working together. This software not only keeps track of changes done but also is helpful in organizing things properly which helps in good development.

There are so many reasons that support the importance of version control. VCS helps in fast project development by providing efficient collaboration. As we have discussed already, one developer can sit anywhere in this world where he has the internet and can collaborate through their VCS. If at all some change x causes the project to stop working then it can be reverted back to the previous working version. Also there will be many changes done to a project repository so VCS helps in keeping a record of changes like who changed it, when did they change, what did they change and why did they change. Some well known version control systems are Tortoise SVN, GIT and Mercurial.