TYPES OF VERSION CONTROL SYSTEM :

1. LOCAL VERSION CONTROL SYSTEM

2. CENTRAILIZED VERSION CONTROL SYSTEM

3. DISTRIBUTED VERSION CONTROL SYSTEM

2 ======================= C V C S ===========================

Centralized Version Control

**Centralized Version Control** is a version control system using server/client model and server contains all the history of source code.

3 ========================D V C S ===========================

## Distributed Version Control

**Distributed Version Control** is a version control where each client can have same copy of source code as server has and both server and client maintain history of source code.

DIFFRENCES BETWEEN CVCS AND DVCS

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| C V C S | D V C S |
| 1. In CVS, a client need to get local copy of source from server, do the changes and commit those changes to central source on server. | 1. In DVS, each client can have a local branch as well and have a complete history on it. Client need to push the changes to branch which will then be pushed to server repository. |
| 2. CVS systems are easy to learn and set up. | 2. DVS systems are difficult for beginners. Multiple commands needs to be remembered |
| 3. Working on branches in difficult in CVS. Developer often faces merge conflicts | 3.Working on branches in easier in DVS. Developer faces lesser conflicts. |
| 4. CVS system do not provide offline access. | 4. DVD systems are workable offline as a client copies the entire repository on their local machine |
| 5.CVS is slower as every command need to communicate with server. | 5. DVS is faster as mostly user deals with local copy without hitting server everytime. |