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| **Centralized Version Control System** | **Distributed Version Control System** |
| 1. In Centralized Version Control System, a client needs to get local copy of source from server, do the changes and commit these changes to central source on server 2. Centralized Version Control System are easy to learn and setup 3. Working on branches is difficult in Centralized Version Control System developer often focus on merge conflict 4. Centralized Version Control System do not provide offline access 5. Centralized Version Control System is slower as every command need to communicate with server 6. If Centralized Version Control System server is down, Developer can’t work | 1. In Distributed Version Control System each client has a local branch as well and have a complete history on it. Client needs to push the changes to branch which will then be pushed to server Repository 2. Distributed Version Control System are difficult for beginners’ multiple commands need to be remember. 3. Working on branches is easier in DVCS developer faces less conflict 4. DVCS system are working fine on offline mode as client copies the entire repository on their local machine 5. DVCS is faster as mostly user deals with local copy without hitting server anywhere 6. If DVCS server is Down developer can work using their local copies. |

**Git and GitHub Difference:**

**Stages of Git and Its Terminology:**

Install git

Git init

(.git) folder will be create on local machine

**Different Stages**

* Workspace/Working directory(eclipse)
* Staging area(add) commit(save) 🡪
* Local Repo