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Description of Class Case Study: Git version control

What is Version control System ?

* A way to manage files and directories
* Track changes over time
* Recall previous version
* ‘’Source control ‘ is a subset of a VCS

What is git ?

* It was Created by Linus Torvalds April 2005
* Replacement for BitKeeper to manage Linux Kernel Charges
* A command line version control program
* Uses checksums to ensure data integrity
* Distributed version control (like bitkeeper)
* Cross-platform
* Open Source , Free

Distributed version Control

* No need to control to central server
* Can work without internet
* No single failure point
* Developers can work independently and merge their work later
* Every copy of a Git repo can serve either as the server or as a client (And has Complete History!)
* Git tracks changes, not version

How does a simple git workflow Looks Like

1. Initialize a new project in a directory git init command is used
2. Add a file using a text editor to the directory
3. Add every Change that has been madegit add

4.Commit the changes in the repo - git commit -m “message”.

5. git push

Licenses - Git is released under the GNU General Public License version 2.0, which is an open source license. The Git project chose to use GPLv2 to guarantee your freedom to share and change free software---to make sure the software is free for all its users.

Languages that git uses -The tools that make up the core Git distribution are written in C and (Bourne) shell, and a handful in Perl.

Most popular languages used with Git-

* HTML
* CSS
* JAVA
* SHELL Scripts
* C++