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Description of Class Case Study:

Case Study on Git Version Control Case Study on Git Version Control Case Study on Git Version Control.

What is a ‘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

HISTORY

* Closed source,proprietary,used with source code management of linux Kernel
* Free until 2005
* Distributed version control

Distributed version Control

* No central server
* Every developer is a client , the server and the repository

What is Git ?

* 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

Git 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

Is Git for everyone

* People Primarily working with source code
* Anyone wanting to track edits (especially changes to text files)

- Review history of changes

-Anyone wanting to share,merge changes

* Anyone Not afraid of command line tools

Most popular languages used with Git

* HTML
* CSS
* JAVA
* SHELL Scripts
* C++
* PHP
* C
* C#
* RUBY

What is a repository ?

* “Repo” = repository
* Usually used to organize a single project
* Repos can contains folder, files, images,videos,spreadsheets and data sets- anything your project needs

A Simple Git workflow

1. Initialize a new project in a directory

git init command is used

1. Add a file using a text editor to the directory
2. Add every Change that has been made

git add

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

5. git push

After initializing a new git repo

Commit changes with a message

. Add changes

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