

(Vision for the Future)

**College of Arts and Applied Sciences**

**CMPS420: Internet Programming and Web Design**

Version control system

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**What is Version control system\***

The version control system is an important system that manages software configuration and records any change in the file over time. As well as from program departments that help manage changes. Version Control keeps track of every change or modification, and these changes symbolize numbers or letters. If an error is made, developers can compare previous revisions, restore them from code, and fix the error.

The version control system also enables users to track any change in software development projects and enable them to collaborate on these projects. Using it, developers can work together on code and separate their tasks through branches.

There are several branches in the version control system, depending on the number of collaborators. These branches can maintain individuality where changes in the code remain in specific branches.

The best version control systems are ten version control programs, including:

Github\*

  One of the programs for copy management, such as the repository saves projects in it and can review the old versions. The best thing about Git is to transfer your project whether it is in your business or personal area, or if a file has been deleted by mistake, it will help you recover your deleted files. So the version control system helps you deal with it by keeping a record of changes. Git also offers features such as consolidation and operations.

**\*Why it is important**

The version control system is very important for its ability to save changes made to files as well as keep changes from all previous versions. Version control is also important for electronic documents because it can be easily changed by a number of different users.

As well as through the version control system can keep a record of all changes within the code. As the repository saves all changes and therefore if any error is committed that developers can undo at the same time and thus reduces the error so it is suitable for any web development company.

Also, the version control system is important because it contains many unique features of the version control system are as follows:

The recent log is available for any types of files and documents.

Does not need any other storage systems.

Repositories can be cloned as needed and are useful when deleting and failing.

There are several different types of version control systems:

. \*Centralized version control system

. Local version control system\*

. Distributed version control system\*

Therefore, version control is very important for documents that are subject to review and redrafting and are also important for electronic documents because they can be easily changed by some different users. These changes can be immediately apparent. So you need to know which version of the document you're looking for, for example, if you want to try to see which policy version is currently in force, or the previous version.

**References**\*

<https://en.m.wikpedia.org>

<https://www.atlassian.com>

<https://hackernoon.com>

[https://www2.le.ac.uk](https://www2.le.ac.uk/)