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CSE 210

What is a version control system and why is it important?

A version control system allows multiple developers to work on a project simultaneously. A distributed version control system, like GitHub, allows for offline work and the merging of files if the changes are approved. It also saves each version of the project. This allows developers to undo changes or look back and see when and why changes were made.

A real-world example of this is when the BYUI CSE Club wanted to create a website. They put the source code into GitHub which allowed each person to work on their part in their own time and then to bring all the parts together. This also made it convenient to assign different parts of the website to different people.

Here is what could have been done to create and work on the CSA project:

Create repository:

git init my-repo

rename directory (file name):

cd csa-project

A club member copies the repository onto their device to work on it:

git clone <http://github.com/owner/repo.git>

crates a new branch to work in:

git branch my-branch