Source Control with GitHub

Monday, January 16, 2023 7:54 AM

What is GitHub?

GitHub allows you to pick a folder on your computer for it to keep track of. Anytime you make changes to that folder and **commit** them, GitHub will store a record of those changes. You can create, edit, or delete files or folders, and GitHub will track all of that when you commit, as long as they are inside the original folder you told GitHub to keep track of. That's really useful, so we can revert our changes if something in our project breaks!

Instead of letting GitHub keep an eye on a folder stored on our computer, we're going to have it keep an eye on one of the server's folders! This is a folder called www. It sits on a Linux computer at the IP address 161.35.112.134. It can be found at the path /root/var/www
(I believe this is where the **A**pache in LAMP comes from.)

How do I set this up on my computer?

1. Make sure you have git **installed** on your computer's terminal
2. Create a new **folder** on your computer that you want to work out of (<destination> for #3)
3. **Clone** the GitHub repo to your local machine. Run 'git clone <source> <destination>' → The source can be found on the repo website under the green **"code"** tab. Use the https link.
4. You now have a copy of our project's files on your local machine. You can now **make changes**.

How do I make changes to the project?

1. **Pull** the latest revisions from GitHub down to your local machine.
2. Make your **edit**s. (create, edit, delete)
3. **Commit** the changes locally. (include a message with your commit)
4. **Push** the commit to GitHub.

→ VS Code has built in functionality for steps 1-4. If you're using a text editor, you'll need to use some bash commands (they aren't too difficult to learn)

5. (Optional) ssh/PuTTY into the server computer and **pull**, the changes will be reflected at our website.

I'm not going to give exact instructions here, because everyone's computers are slightly different. Talk to me (Blake) if you need 1-on-1 help, I'd be happy to troubleshoot with you.

This is the link to our GitHub repository. The repository is where all of the files and revision history is stored online.
https://github.com/proj1-team6-cop4331/lamp