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CS389

Homework:Git Tutorial

What is GitHub? When was it created? Why? By who? What similar platforms exist? Why would you use such a platform? (Answer between 5 and 10 lines)

**GitHub is a web-based repository hosting service for version control. It was created in 2008 by Tim Preston-Werner, Scott Chacon, Chris Wanstrath, and P.J. Hyett. It is currently owned by Microsoft. Gitlab, Bitbucket, SourceForge, and Launchpad are alternatives to Github. Github is used as a code sharing and publishing service, it is also known as a social networking site for programmers.**

Define the following terms in the context of Git (2 lines maximum):

Source: <https://try.github.io>

* Repository **-Also known as a git project, encompasses all the files and folders associated with a project, along with the file revision history.**
* Commit **– exists as a linked-list relationship. They are snapshots of file history**
* Push - **Updates the remote repository with any commits made locally to a branch**
* Branch **-Each commit can be organized into lines of development knows as branches. There are also Topic Branches that are lightweight pointers to commits in history that can be easily created or deprecated.**
* Fork **-a copy of a project under a developers personal account (it is separate)**
* Merge **– Combines changes made on two distinct branches**
* Clone -**creates a local copy of a project that already exists remotely**
* Pull **Updates the locally with updates from the remote counterpart. If a teammate has made commits to a branch on a remote, and they would like to reflect those changes in their local.**
* Pull request ­– **Publicize a project’s ongoing efforts and set the tone for a transparent development process**