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CS 389

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GitHub Exercise

**Part 3**

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 open-source version control repository and Internet hosting service. It uses Git which is a version control system. The development of GitHub started on October 1, 2007 and the site was released in April 2008. It was created by Tom Preston-Werner, Chris Wandstrath and PJ Hyett. It was created because even though Git is useful to use it is hard to use unless you are familiar with Linux. GitHub was created so that it would be easier for people to use Git. Other similar platforms include Bitbucket and SourceForge. Bitbucket is usefor for organization or groups that have 5 people or less since they allow you to have unlimited public and private repositories. SourceForge is also an alternative because it supports different languages like Ruby, Python and PHP. So this would be useful if you wanted to use different languages on projects or have different projects that are using different languages.

**Part 5**

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

* Repository
  + It holds a set of commit objects and a set of references to commit objects called heads. It also stores information.
* Commit
  + A command in Git that records changes to the repository and used to interact with local repository
* Push
  + A command in Git that updates remote references along with the associated objects. Also used to interact with a remote repository
* Branch
  + A branch is a movable pointer to one of the commits. The default branch is master.
* Fork
  + It is a copy of a repository. Using fork allows you to make changes to the project without modifying the original project.
* Merge
  + It joins two or more commits together. It can add the changes from one branch to antoher branch.
* Clone
  + A command in Git that allows you to clone or duplicate a repository into a new directory.
* Pull
  + It updates remote references along with the corresponding objects
* Pull request
  + This allows you to notify others about the changes you have pushed in a GitHub repository.