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CS 639 – HW01A

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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 Git repository hosting service. It was created for programmers and developers to upload/share and contribute to software development projects online. While development of the GitHub platform began in October 2007, the site was officially launched in April 2008 by Tom Preston-Werner, Chris Wanstrath and PJ Hyett. Other similar services include Bitbucket, GitLab, and Assembla. One would use such services to host code and development projects, to make the projects available to share with team members, or to receive feedback on such projects from developers all over the world.

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

* Repository: where Git stores a project or set of files as they change over time. A repository contains a set of commit objects, and a set of references to commit objects, called heads
* Commit: git-commit. Records changes to the repository
* Push: git-push. Update remote refs with associated objects. Push commits made on local branch to a remote repository.
* Branch: git-branch. A lightweight moveable pointer to one of the commits.
* Fork: A copy of a repository
* Merge: git-mege. Joining 2 or more development histories together.
* Clone: Copies an existing Git repository. It has its own history, manages its own files, is completely isolated environment from the original repository.
* Pull: incorporates the changes from a remote repository into the current branch. Shorthand for git-fetch, then git-merge.
* Pull request: let you tell others about the changes you’ve pushed to a repository. Once the request is sent, interested parties can review the set of changes, discuss potential changes, and push commits if necessary.

PART 7:

git init

git add ReneVanessaGitTutorial-06-03-2016.docx

git commit –m “First commit”

git push –u origin master

git remote add origin <https://github.com/vjrene/CS6392016.git>

((username and password))