# Git Hub Exercise

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1. What is GitHub? When was it created? Why? By who? What similar platforms exist? Why would you use such a platform?

**GitHub** is a web-based Git repository hosting service. It offers all of the distributed version control and source code management (SCM) functionality of Git as well as adding its own features. Development of the GitHub platform began on 1 October 2007. The site was launched in April 2008 by [Tom Preston-Werner](https://en.wikipedia.org/wiki/Tom_Preston-Werner), Chris Wanstrath, and PJ Hyett after it had been made available for a few months prior as a beta release.

It is created because It provides [access control](https://en.wikipedia.org/wiki/Access_control) and several collaboration features such as [bug tracking](https://en.wikipedia.org/wiki/Bug_tracking_system), [feature requests](https://en.wikipedia.org/wiki/Software_feature), [task management](https://en.wikipedia.org/wiki/Task_management), and [wikis](https://en.wikipedia.org/wiki/Wiki) for every project. Bit bucket, sourceforge, Git lab, Klin, Code plan are the similar platforms exist.

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

The purpose of Git is to manage a project, or a set of files, as they change over time. Git stores this information in a data structure called a repository.

* 1. Commit

The purpose of **Git commit** is to record the changes to the repository. So this is connected to your local repository.

* 1. Push

The purpose of **Git push** is "updates remote refs along with associated objects". It is used to interact with the remote repository.

* 1. Branch

**Git** object data for multiple commits. A **branch** in **Git** is simply a lightweight movable pointer to one of these commits.

* 1. Fork

A **Git** **fork** is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project.

* 1. Merge

A **Git Merge** is used to merge the one branch with the master branch we use merge command.

* 1. Clone

A **Git Clone** is command copies an existing **Git** repository. except the “working copy” is a full-fledged **Git** repository.

* 1. Pull

The **Git pull** runs **git fetch** with the given parameters and calls **git** merge to merge the retrieved branch heads into the current branch.

* 1. Pull request

The **Git** **Pull** requests let you tell others about changes you've pushed to a **GitHub** repository.