Difference Between GitLab and GitHub

Version control systems are important tools for managing code changes and collaboration. GitLab and GitHub are two of the most popular platforms in this space. However, they have key differences that can influence which one is the best fit for your project.

GitLab is a repository hosting manager tool developed by GitLab Inc and used for the software development process. It provides a variety of management by which we can streamline our collaborative workflow for completing the software development lifecycle. It also allows us to import the repository from Google Code, Bitbucket, etc.

Features of GitLab:

- ❖ Open-source community edition repository management platform.
- ❖ Easy Maintaining of a repository on a server.
- ❖ Offers tools like Group Milestones, Time Tracking Issue Tracker, etc. for effective development.
- ❖ More Spontaneous User interface and authentication features.
- ❖ User Permission and Branch protection are enhanced.

GitHub

GitHub is a repository hosting service tool that features collaboration and access control. It is a platform for programmers to fix bugs together and host open-source projects. GitHub is designed for the developers and to help them track their changes into a project through the repository.

Features of GitHub:

- ❖ Specifies milestones and labels to the projects.
- ❖ Comparison view between branches is allowed.
- ❖ GitHub Pages allows us to publish and host websites within GitHub.
- ❖ Syntax highlight feature.
- ❖ It allows third-party API integrations for bug tracking and cloud hosting.

Difference between GitLab and GitHub:

Parameters	GitLab	GitHub
Developed by	GitLab was developed by Dmitriy Zaporozhets and Valery Sizov.	GitHub was developed by Chris Wanstrath, Tom Preston-Werner, P. J. Hyett, and Scott Chacon.
Open-sourced	GitLab is open-source for community edition.	GitHub is not open source.
Public Repository	It allows users to make public repository.	It allows users to have unlimited free repository.
Private Repository	GitLab provides free private repository.	GitHub also allows users to have free private repository with unlimited collaborators.
Navigation	GitLab provides the feature of navigation into the repository.	GitHub allows users to navigate usability.
Project Analysis	GitLab provides user to see project development charts.	GitHub doesn't have this feature yet but they can check the commit history.
Advantages	• GitLab is freely available and is open source for community edition • It is a cloud-native application and is highly secure.	• It helps us create an organized document for the project. • It is used for sharing the work in front of the public.
Disadvantages	• GitLab is available with many bugs and it makes the user experience sloppy. • It is difficult to manage code reviews for first-timers.	• It is not open-source. • It supports only Git version control.
Company	It is owned by GitLab Inc.	It is owned by Microsoft Corporation.
Security	More secure than Github.	It is less secure as security Dashboard, License Compliance is missing in GitHub.
Attachments	Gitlab supports adding other types of attachments.	GitHub does not allow adding other types of attachments.