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31.SUB-TASK 1

<u>GitHub</u> and <u>GitLab</u> are two popular platforms for version control and collaboration on software development projects. Both platforms are built on Git and offer features like rectory hosting, issue tracking, and project management.

The difference between GitHub and GitLab.

Self-Hosting options: GitLab allows self-hosting on your own servers, giving you more control over data governance. GitHub is primarily cloud-based.

CI/Capabilities: GitLab has a built-in CI/CD system, while uses GitHub Actions for automation.

Pricing Models: GitLab's free plan is mainly for private repositories. GitHub's free plan is mainly for public repositories, with paid options for private ones.

<u>Security Features</u>: GitLab includes built-in security features like SAST, DAST, and license compliance tools.

GitHub requires third-party tools or higher-tier plans for similar coverage.

The similarities between GitHub and GitLab.

Version Control with Git: Both platforms use Git for version control.

<u>Collaboration Tools</u>: Both offer features like pull requests, issue tracking, and project boards.

Integrations: Both integrate with popular services like Jira, Slack, and Trello.

Choosing between GitHub and GitLab.

Use GitHub for open-source projects, simplicity, and a vast community of developers.

Use GitLab for enterprise-level projects needing robust project management, self-hosting options, and built-in Develops features.

Licensing

The core distinction in licensing approaches between GitLab and GitHub lies in their deployment and pricing models.

GitHub

- Primarily a cloud-based service with options for public and private repositories.
- It is free for public repositories, paid plans for private repositories and advanced features.

GitLab

- It offers both cloud-based (GitLab.com) and self-hosted (GitLab-Managed) options.
- Self-hosting allows more control over data governance and licensing for enterprise use.

• GitLab's open-core model includes features in the open-source version and additional features in the open-source version and additional features in paid tiers.

Key features

- Control and Develop: GitLab's self-hosting option gives users more control over their data.
- Pricing and features: both platforms have free and paid tiers, but GitLab's self-hosting can impact licensing costs for enterprises.

Five Common features to both GitHub and GitLab

- Repository hosting: Both allow hosting Git repositories.
- Issue Tracking: Both have issue tracking for project management.
- Pull/Merge Request: Both supports pull requests (GitHub) or merge requests (GitLab) for code review.
- Collaboration Tools: Both enable collaboration with features like commenting and code review.
- Web-based interfaces: Both provide web interfaces for managing repositories and projects.

Unique features: GitHub

- GitHub Actions: GitHub's automation tool for CI/CD and workflow automation.
- GitHub Marketplace: A marketplace for integrations and apps to extend GitHub functionality.

Unique features: GiLab

- Self-hosting option: GitLab offers self-hosting (GitLab self-managed) for more control over data
- Built-in CI/CD with Auto DeVops: GitLab has a built-in CI/CD with Auto DevOps for streamlined DevOps workflows.