

Gitee Team Product White Paper

An enterprise-level project management platform that connects everything

For project management and team collaboration



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1 Product Description

Gitee Team is an enterprise-level collaborative tool for project and work management developed by Shenzhen Ousi. It supports both traditional waterfall project management and agile development management workflows. It provides a collaborative solution for end-to-end management in the product development domain, including goal setting, requirement management, planning, development, testing, and deployment. It is dedicated to enhancing team collaboration efficiency and simplifying development management, helping teams better plan, allocate, track, report, and manage their work.

Gitee Team offers powerful configuration capabilities, including a robust workflow engine, automation, flexible permission system, customizable issue types/interfaces, and extensive customization options for spaces. When using Gitee Team, there are six typical scenarios, including project development collaboration, agile development management, test management, and dashboards, which are aimed at users in the development team. Custom collaborative space templates and automated transaction processing are the core configuration scenarios for configuration administrators. Regardless of the mode and workflow in which the enterprise operates, Gitee Team can seamlessly adapt to it.



Product Architecture

2.1 Functional Architecture

Gitee Team offers a range of product features, including project management, sprint management, timesheet management, statistical reports, enterprise-level development management, external integration, and the foundational general module called Gitee One. These features cater to the needs of managing and collaborating on the entire development process at an enterprise level. The product capability matrix is depicted in the diagram below:

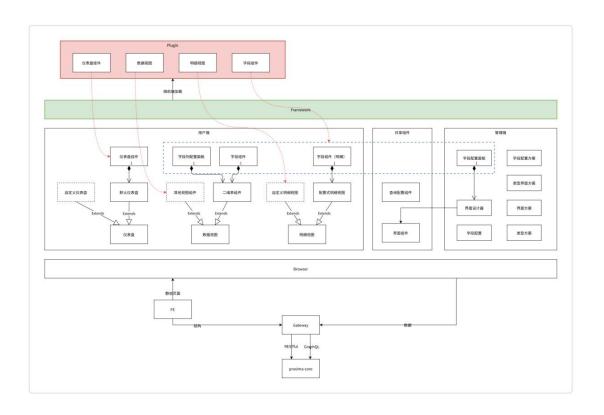


[Figure 1] Gitee Team Functional Architecture

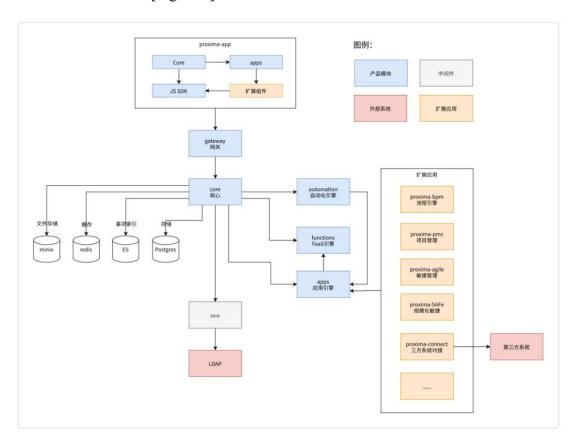
2.2 Technology Architecture

Team's Development Management Platform has undergone extensive evolution and has an independently developed, mature and stable system architecture. All foundational components are developed in-house.





[Figure 2] Gitee Team front-end architecture



[Figure 3] Gitee Team back-end architecture

Gitee Team adheres to the following technical standards and requirements in all design and development aspects:

- 1. Adoption of an open architecture, with client and server programs supporting multiple operating system platforms. The server side supports Linux system and mainstream relational database MySQL. It provides data exchange based on Web Services technology, ensuring advanced, robust, and scalable architecture.
- 2. Adoption of B/S architecture with a fully browser-based interface, allowing zero-installation on the client side. This facilitates system maintenance and version updates, limited to the server-side.
- 3. Provision of a platform or interface for secondary development, making it easy to extend and customize. Detailed development documentation is provided to facilitate the integration of other requirements into the platform.
- 4. Support for clustering and load balancing to ensure high reliability and availability of the system.
- 5. Compatibility with commonly used security software to avoid being flagged as suspicious or dangerous programs.
- 6. All management operations are audited, with audit information stored in the backend database for statistical analysis. Rich querying functionality is provided, allowing queries based on operation types, date ranges, user IDs, service types, etc., and generating reports.
- 7. The system supports 500 concurrent online users (designed for 300 concurrent users in this case) and does not impose restrictions on the number of registered online users.



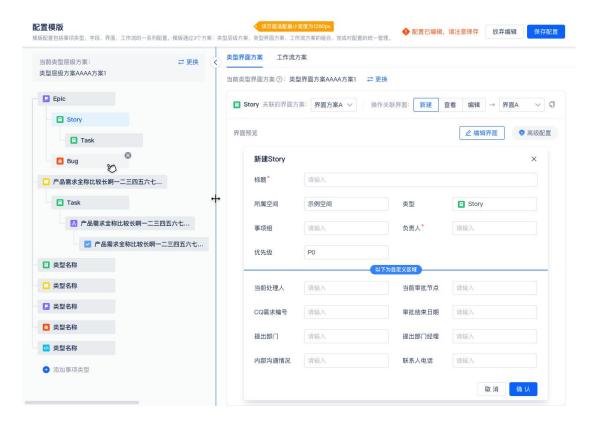


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Product Features

3.1 Product Features

- Gitee Team provides customizable issue hierarchy definition and decomposition, meeting various management needs.
- Customize issue statuses and transition conditions to match the team's workflow.
- Personalize issue fields for each issue type to capture all issue-specific details.

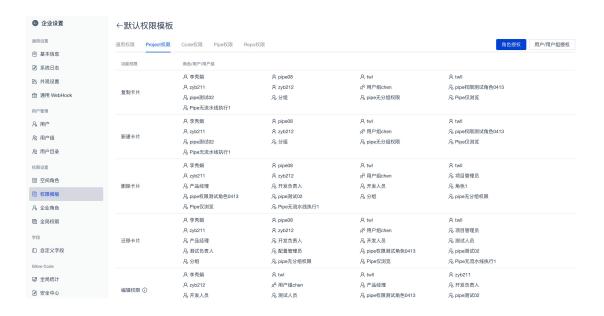


[Figure 1] Issue Configuration Interface



3.2 Granular Permission Design for Complex Authorization Management

- Granular control of permissions, encompassing users, user groups, and roles in various dimensions.
- Button-level permission control, ensuring data security.



[Figure 2] Authorization Management

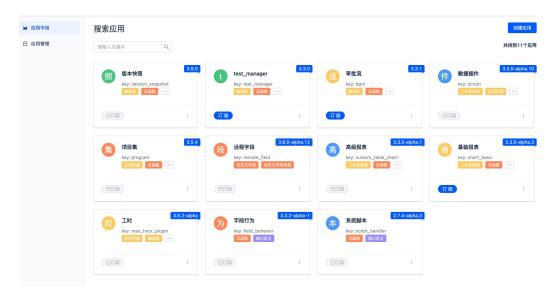
3.3 Dynamic Plugin Extension Capabilities

- Dynamic and lightweight plugin capability, allowing the installation or uninstallation of modularized functionality depending on specific scenario needs.
- Standard plugin development guidelines and product capabilities that empower customers for self-development.





[Figure 3] Plug-in extension point



[Figure 4] App Store

3.4 Automation Capabilities

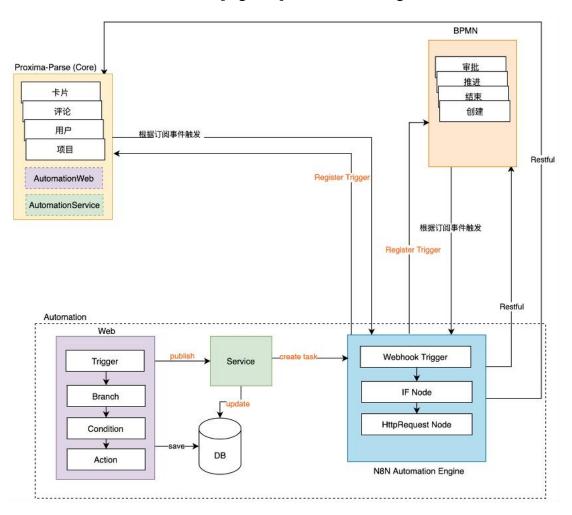
- Employ automation rules to streamline repetitive issues and meet the workflow demands of the team.
- No coding required, compatible with the business models of enterprises/teams, cost-effective implementation.
- Integration and collaboration with any DevOps product, even with competitors.







[Figure 5] Automated configuration



3.5 Customizable Metrics Reports

- Providing comprehensive development efficiency solutions for enterprises, projects, teams, and individuals.
- Dynamic metrics and measurements to meet diverse needs across core scenarios.
- Offering expert practice templates such as Agile projects and Admin Dashboard, ready to use out of the box without the need for configuration.



[Figure 7] Dashboard

3.6 Issue Management

- Supporting the display of requirements on various business attributes and requirement statuses through sub-window gadgets.
- Allows for the configuration of multiple views, including private views and shared views.
- Allows for the customization of requirement status, priority, and custom attribute fields.





 Allows for the association of requirements, issues, and other issue types, creating parent-child hierarchical views.

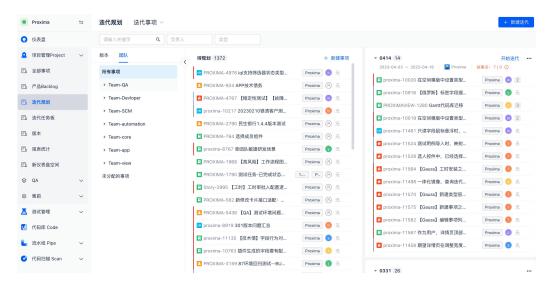


[Figure 8] Issue Management List

3.7 Multi-Team Collaboration

- Facilitates cross-team information sharing, visual filtering of global issues, and advanced query capabilities with IQL support.
- Facilitates collaborative sprints among multiple teams, assisting in the planning, tracking, and management of iterative work.
- Visualized report analysis, assisting in tracking progress and issues, such as sprint and workload reports.





[Figure 9] Planning sprints across multiple teams

3.8 Work Hour Allocation and Timesheet Management

- Collects and analyzes multiple types of work hours, such as regular and overtime hours, and offers time statistics across various dimensions, including projects, individuals, and issues.
- Highly flexible configuration options for working hours, allowing managers to set parameters such as maximum daily working hours per person, the range for entering working hours, and automatic aggregation of hours. These configurations can be tailored to different business scenarios, providing convenience for administrators.
- Includes a timesheet approval feature, enabling organizations to review and authorize working hours based on their specific organizational structures.

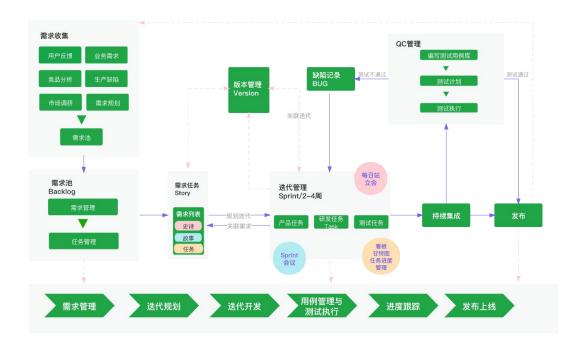




[Figure 10] Timesheet Report

3.9 Efficient Implementation of Agile Development Lifecycle

• The platform facilitates agile development management by streamlining the entire process, from gathering requirements to final deployment and release.

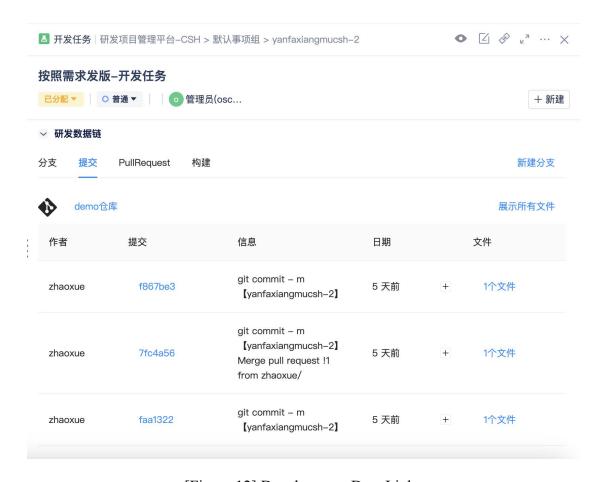


[Figure 11] Agile Development Process



3.10 Transparent Development Process

• The platform seamlessly integrates with DevOps products, utilizing requirements as the tracking unit and enabling full end-to-end traceability. It covers code commits, branch associations, pull requests, and pipeline builds. The entire process, from requirements inception to issue completion, code development, and deployment, is transparent.
Requesters can easily track progress, resulting in improved communication efficiency.



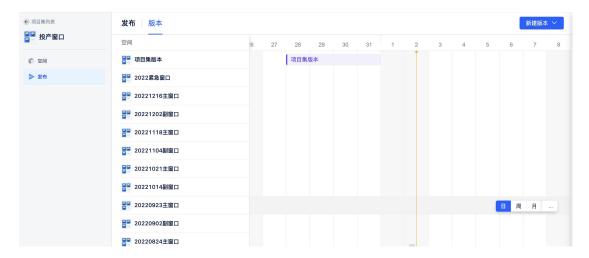
[Figure 12] Development Data Link

3.11 Project Portfolio Management

In the context of large-scale agility, a project portfolio represents a collection of
multiple interrelated and coordinated project activities. It is typically created to achieve
a common goal by grouping a set of interconnected projects for collaborative and
unified tracking and management. A project portfolio allows multiple projects to



participate, and a project can be part of multiple project portfolios or exist independently.



[Figure 13] Unified Version Management of a Project Set

4 Product Value

- Gitee Team satisfies the management demands of diverse teams by packaging various
 management scenarios. It encompasses advanced project management methodologies and
 practical tools, combining personalized management scenes. There is always a suitable solution
 for you.
- Integrated Ecosystem: Build an eco-data chain by seamlessly connecting with your preferred applications, such as DingTalk, Feishu, email, OA, CRM, ERP, SRM, etc.



Based on the best engineering practices in the industry, Gitee Team covers a wide range of
development efficiency scenarios, spanning enterprise-level, project-level, team-level, and
individual-level contexts. It also provides a rich variety of metric types to meet the unique
requirements of different situations.

5.1 City Commercial Banks

Implementation Objectives:

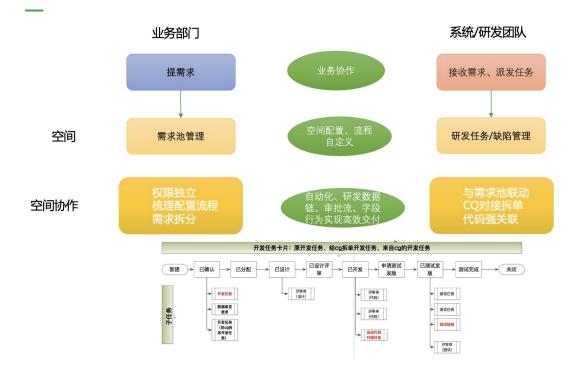
Achieve end-to-end management of the entire process from requirements to design, development, construction, testing, release, and deployment, forming a closed loop for research and development quality control. Ensure the consistency and traceability of software versions delivered to the production environment throughout the entire process. Enable mutual associations between requirement functionalities, code, and versions for easy information traceability, enhancing management efficiency.

Implementation Plan:



Gitee Team enables the maintenance of requirements in a dedicated requirement pool, followed by the decomposition of requirements into their respective system spaces. This allows developers to concentrate on developing the requirements while providing business users with visibility into the progress of development and testing.





5.2 Joint Stock Commercial Banks

Implementation Objectives:

Through the establishment of a complete R&D management system and the implementation of management mechanisms, we aim to align technical organizations with goals, ensuring efficient operations and motivating teams to continuously optimize and improve.

Our objective is to build a comprehensive lifecycle management platform, covering requirements, development, testing, deployment, and post-evaluation, to enhance development efficiency, ensure the quality of product delivery, and achieve rapid and sustainable delivery of business products.

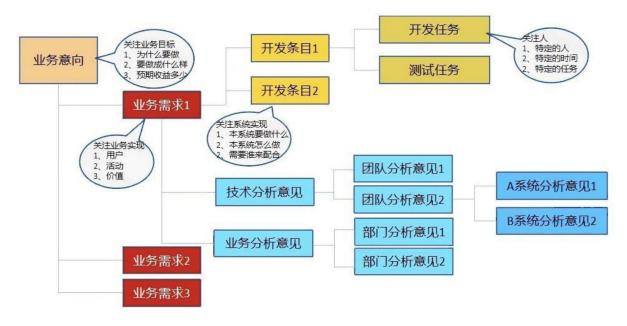
Overview:





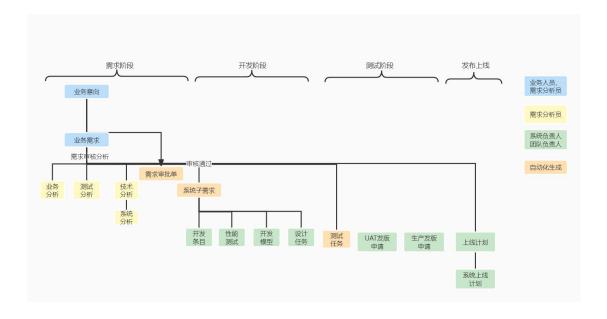
Refinement of Management Requirement:

By splitting business requirement intentions into business requirements based on the product's structural entities and further breaking them down into development items at the system level, we establish test cases and development tasks, enhancing the alignment between requirements and development deliverables.



Overview:





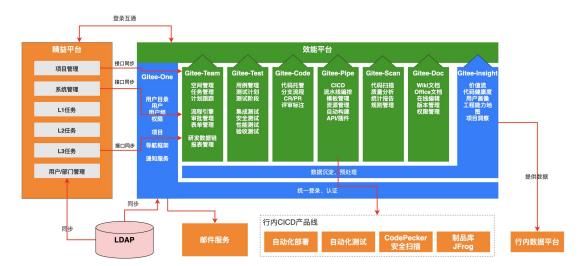
5.3 National Joint Stock Commercial Banks

Situational Analysis:

- Fragmented development management approach
- Lack of end-to-end development process integration
- Weak agile management
- Inaccessible business data
- Difficulty in quantifying and presenting statistical data

A mature set of tools should integrate all processes and systems. It should be able break down isolated management between teams to form a unified and effective whole.

Implementation Plan:







Bank's agile management are inherently non-robust, making it challenging to achieve agile development requirements such as feature point breakdown, real-time association between code and versions, and sprint development with diverse combinations of features. By integrating with the Gitee system, we can achieve fine-grained requirement management.

