# "Jira Research Results"

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## Introduction

In the modern software development industry, project management tools are esential to guarantee and improve aspects such as collaboration, transparency, and efficiency throughout the development process. And in this vast world of software, one of the most widely used tools is Jira and Redmine, both designed to help teams track progress, manage issues, and coordinate workflows. While they share the common purpose of facilitating project tracking and issuing management, they differ significantly in terms of interface design, customization, integrations, licensing, and pricing. This report will provide a detailed overview of each platform, exploring their key functionalities, and main characteristics.

## What is Jira?

Jira is a proprietary project management and issue-tracking software developed by Atlassian. Originally created in 2002 as a bug and issue tracker for software development teams,

Jira has evolved into a comprehensive platform for agile project management. It supports methodologies such as Scrum, Kanban, and hybrid agile frameworks, making it suitable for both small teams and large enterprises.

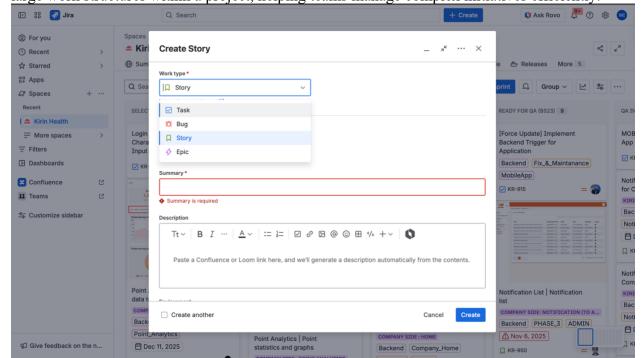
Jira is known for its intuitive interface, powerful integration ecosystem, and highly configurable workflows, which allow teams to tailor the system to their specific development processes. It is commonly used in conjunction with other Atlassian tools such as Confluence, Bitbucket, and Trello, forming a cohesive project management environment. Jira is available as a cloud-based service (Jira Cloud) and as a self-managed option (Jira Data Center).

# Jira's Functionalities

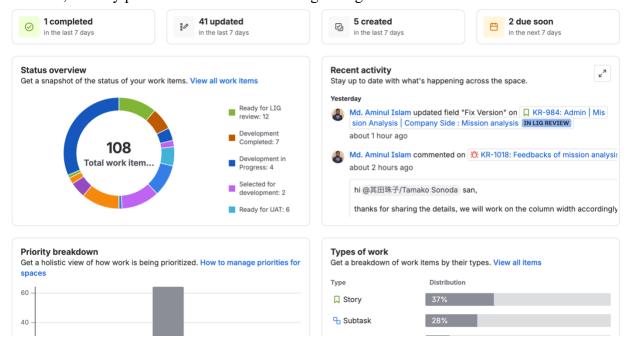
# **Project Management Features**

• Create and Manage Projects: Jira allows you to create new projects with customizable templates (Scrum, Kanban, or Bug Tracking). You can configure project settings, visibility, and team permissions easily.

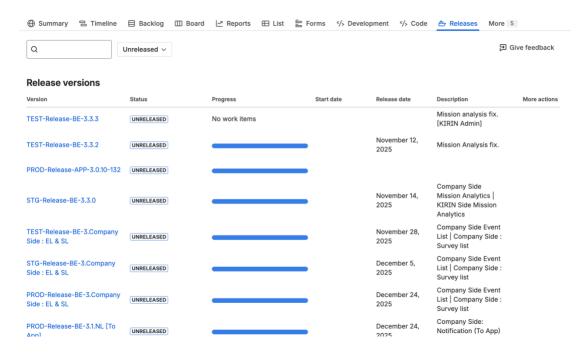
• Components & Epics: Instead of subprojects, Jira uses components and epics to organize large work structures within a project, helping teams manage complex initiatives efficiently.



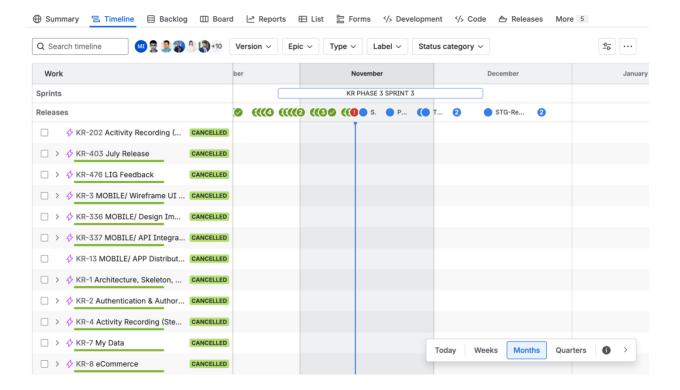
• **Dashboard:** Displays essential information such as project summary, active sprints, issue statistics, and key performance indicators through widgets and charts.



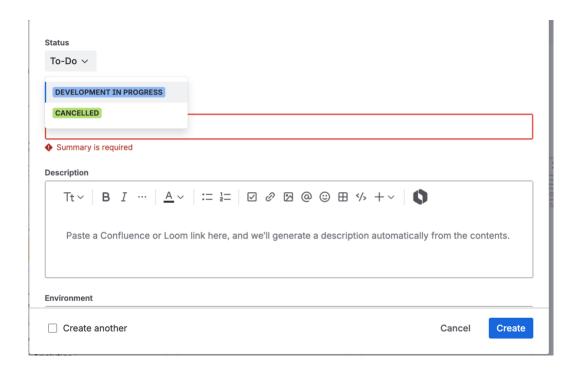
• Versions or Releases: Define versions or releases to group issues and track progress toward milestones or software releases.



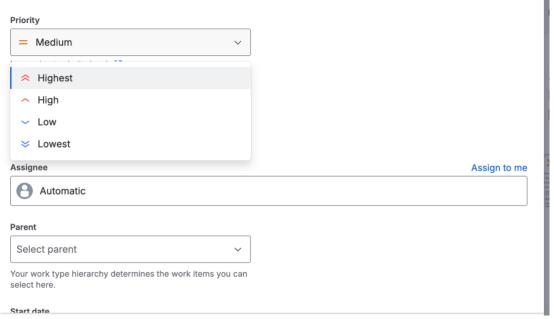
• **Timeline:** The roadmap provides a visual timeline of tasks, sprints, and releases, enabling teams to plan and monitor project timelines effectively.



- **Ticket and Task Tracking:** Tiecket Creation and Management: Create and assign tickeets for tasks, bugs, stories, or improvements. Each ticket includes details such as assignee, reporter, priority, and description.
- **Ticket Statuses:** Jira provides customizable workflows with statuses like To Do, In Progress, Done, or any other stage that fits your team's process.



- **Custom Fields:** Add custom fields to capture project-specific information (e.g., client name, estimated cost, or risk level).
- **Priorities:** Set priorities such as Highest, High, Medium, Low, or Lowest to indicate urgency and importance.

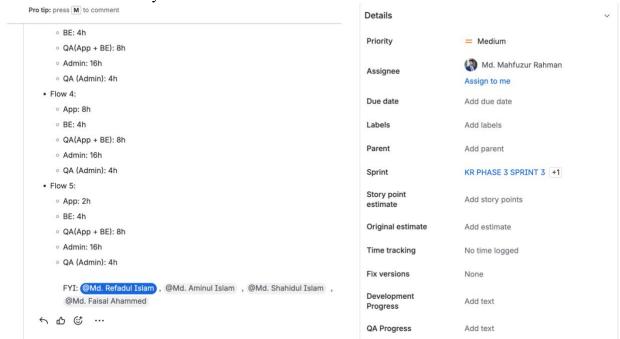


• **Ticket Types:** Classify tickets such as Bug, Task, Story, Epic, or Sub-task to fit Agile and standard workflows.

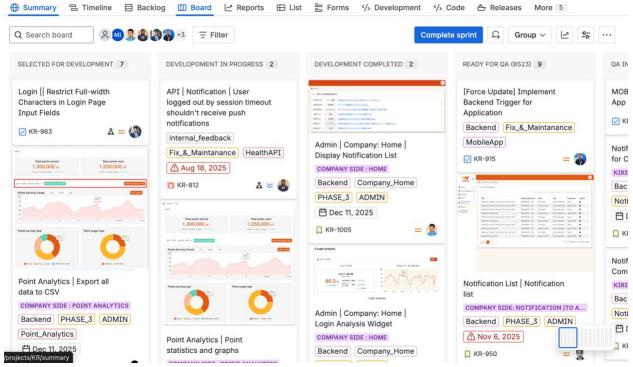
- **Time Tracking:** Track time spent on each issue with built-in timers and generate work logs for reporting or billing.
- **Ticket Linking:** Relate tickets using links such as blocks, is duplicated by, or relates to, ensuring task dependencies are clear.

#### **Collaboration and Communication**

- Confluence Integration (Wiki): Jira integrates seamlessly with Confluence for maintaining documentation, meeting notes, and project knowledge bases.
- **Comments and Mentions:** Team members can collaborate through comments, mentions, and attachments directly on each issue.



 Boards: Visual boards allow teams to track task progress, manage backlogs, and conduct sprint planning efficiently.



- Announcements and Updates: Use dashboards, filters, or Confluence pages to share project updates and internal news.
- Attachments: Attach files, screenshots, or documents directly to issues for easy access and reference.
- **Email Notifications:** Automatic notifications are sent for issue of assignments, status changes, or comments, ensuring everyone stays informed.

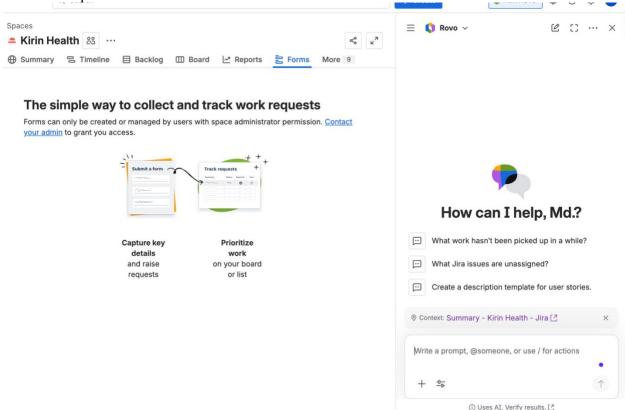
## **Integrations and Repositories**

- **Version Control Integration:** Integrate Jira with Git, Bitbucket, GitHub, or other repositories for development tracking and commit linking.
- **Smart Commits:** Developers can reference, transition, or close issues directly from commit messages using special syntax.
- **Repository Browser:** View commits, branches, and pull requests linked to Jira for issues for traceability between code and tasks.

# **Administration and Configuration**

- **User Management:** Add, remove, or modify user accounts and manage permissions within Jira's user directory.
- **Authentication Settings:** Supports single sign-on (SSO), LDAP, and other authentication mechanisms for secure access.
- Schemes and Configurations: Reuse configurations like workflows, permission schemes, and notification settings across multiple projects.
- **Modules and Apps:** Enable or disable Jira features and Atlassian Marketplace apps according to project needs.

• AI Assistant: Jira has AI chatbot support to assist in finding out a issue or writing an epic or ticket description.



- **Jira Service Management:** Integrated SLA tracking for ITSM and customer support tickets.
- **Incident Management:** Priority escalation, on-call schedules, and automated alerts.
- Advanced Roadmaps: Visual planning of multiple projects, dependencies, and resource allocation.
- Dependency Management: Track blockers between issues across projects.
- **Bitbucket/GitHub/GitLab Integration:** View commits, branches, pull requests directly in issues.
- **CI/CD Integration:** Connect Jira issues to automated build/deployment pipelines.

# **Scalability & Cloud Benefits(premium)**

- Jira Premium/Enterprise supports large organizations (thousands of users) with uptime SLA.
- Features like unlimited storage, archiving, and sandbox environments for testing workflows.
- o Redmine is self-hosted and lacks native cloud-scale features unless you use a paid host.

#### What is Redmine?

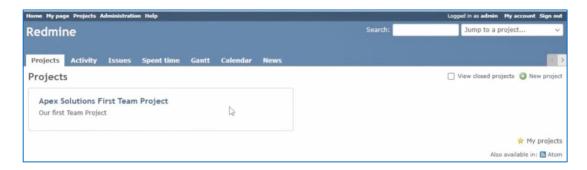
Redmine is an open-source project management and issue-tracking tool developed in Ruby on Rails. It was first released in 2006, and since then it has been used by several organizations seeking a free, customizable alternative to commercial project management platforms. Redmine supports the management of multiple projects, role-based access control, and various plugins that work to provide complete experience. Because it is open-source, users can host it on their own servers and modify its code to adequate it to their particular needs and requirements.

Redmine's interface is simpler and less visually dynamic compared to modern tools like Jira, but its flexibility and extensibility make it a preferred choice for teams that value control and self-hosting. It also supports a variety of version control systems such as Git, SVN, and Mercurial, making it suitable for software development teams.

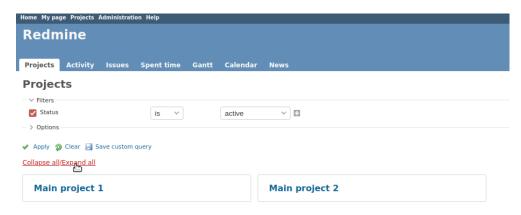
## **Redmine's Functionalities**

# **Project Management Features**

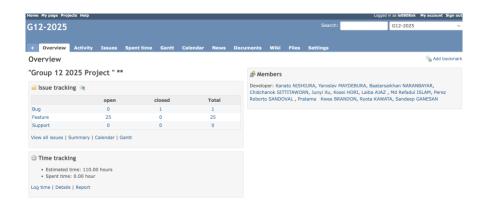
• Create and Manage Projects: You can create new projects, define their visibility (public or private), activate modules, and assign members.



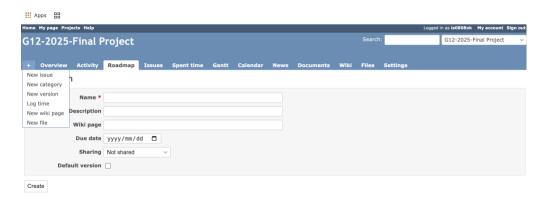
• **Subprojects:** Redmine allows the creation of subprojects under a main project, helping organize large or complex work structures.



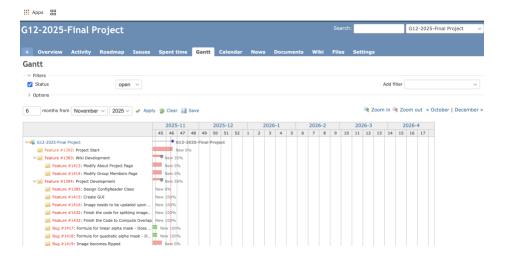
• **Project Overview:** Displays key information such as project description, activity summary, and enabled modules.



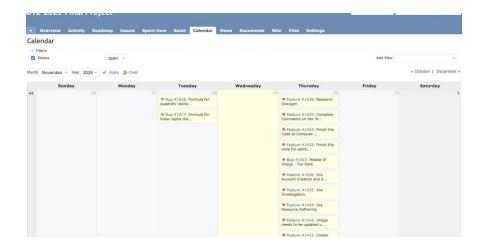
• Versions or Milestones: You can define project versions to track releases, stages, or goals.



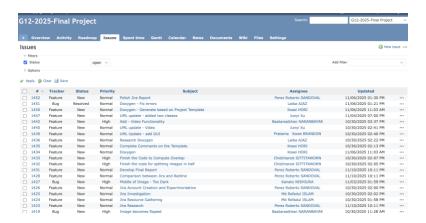
• Gantt Chart: A visual timeline that shows tasks, due dates, and project progress.



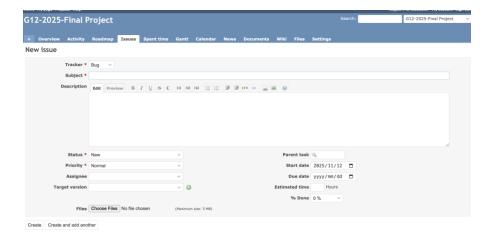
• Calendar: Displays issues and deadlines by date for scheduling and time management.



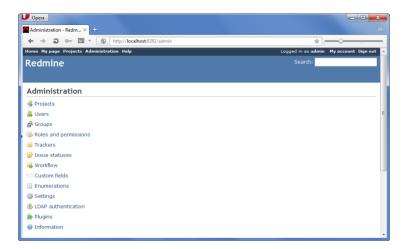
# Issue and Task Tracking



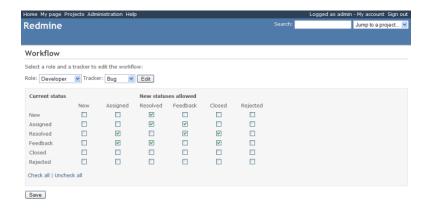
- **Issue Creation and Management:** Create, assign, and track issues such as bugs, tasks, or feature requests.
- **Issue Statuses:** Define and manage the different statuses (e.g., New, In Progress, Resolved) used to track issue progress.
- Custom Fields: Add personalized fields to issues, such as "Customer name" or "Complexity level."



- Priorities: Customize and assign issue of priorities like High, Normal, or Low.
- Trackers: Classify issues into types such as Bug, Feature, or Support.

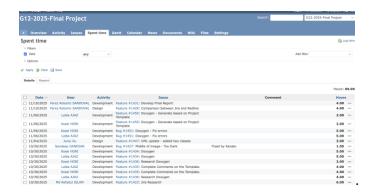


• Workflow Customization: Define which transitions between statuses are allowed for each role.



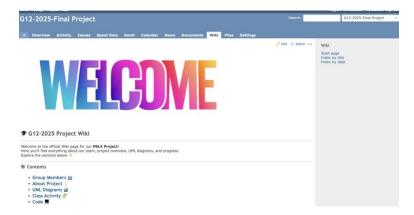
• **Time Tracking:** Record time spent on specific issues to track work hours or prepare time reports.

• **Issue Relations:** Link issues using relationships like "blocks," "duplicates," or "relates to."



## Collaboration and Communication

• **Wiki:** A collaborative documentation space within each project, ideal for technical documentation or meeting notes.



• Forums (Discussion Boards): Allow team members to create discussion topics and reply to others.



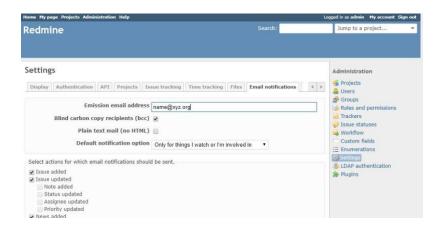
• News Section: Used to post project announcements, updates, or general news.



 Activity Feed: Displays all recent project activities such as issue updates, comments, and commits.



- Attachments: Upload and attach files to issues, wiki pages, and documents.
- Email Notifications: Automatically send emails when issues are updated, assigned, or resolved.



# Integrations and Repositories

- **Version Control Integration:** Connect Redmine to Git, Subversion, Mercurial, CVS, or Bazaar repositories for source code management.
- Automatic Commit Linking: Allows referencing or closing issues directly from commit messages.
- Repository Browser: View files, diffs, and commit history directly from Redmine.

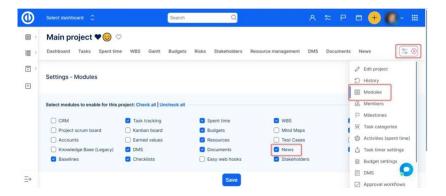
# Administration and Configuration

- User Management: Add, modify, or remove users and manage their access levels.
- Roles and Permissions: Define user roles (Manager, Developer, Reporter, etc.) and assign permissions for each.



- Authentication Settings: Configure login requirements and authentication methods (e.g., LDAP).
- Enumerations: Edit default lists such as priorities, time entry activities, or document categories.

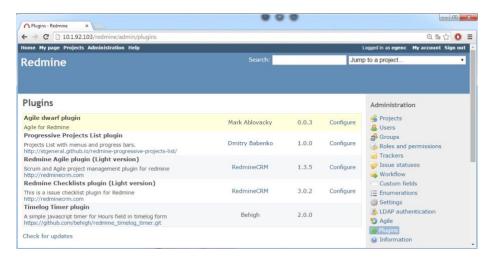
• Modules Activation: Enable or disable specific project modules like Wiki, Gantt, or Forums.



(The image was taken from easy Redmine; however the functionality and style are maintained)

# Plugins and Extensions

- **Plugin Installation:** Extend Redmine's capabilities with community-developed add-ons such as Agile boards or CRM tools.
- Theme Customization: Change the appearance of Redmine using themes for better UI design.



## Jira vs Redmine

As previously stated in this document, both Jira and Redmine are software tools that are focused on aiding companies and project managers to better administer the progress of said projects, by providing different tools and visualization functionalities.

However, putting the general characteristics of functionalities aside, each platform has its own induvial characteristics. On the one hand, there are several aspects where they differ, but int the other hand, they share many other qualities. Therefore, the following table shows, explains, and compares the characteristics of each in more detail.

Category	Jira (Atlassian)	Redmine (Open Source)
General Description	Commercial project and issue tracking	Free, open-source web application
_	tool, focused on Agile software	for project and issue tracking, built
	development.	on Ruby on Rails.
Deployment /	Cloud (Atlassian-hosted) or Data Center	Self-hosted by default; optional
Hosting	(self-hosted enterprise).	managed hosts (Easy Redmine,
	•	Planio).
Pricing	Subscription-based (per user/month).	Free (GPL license. Only hosting,
	Free for small teams under certain	maintenance, and optional plugin
	limits.	costs.
Ease of Setup	Very easy for Cloud; automatic updates.	Manual installation and server
		maintenance are required.
User Interface	Modern, intuitive UI with drag-and-	Functional but dated UI; can be
	drop boards and dashboards.	improved with themes and plugins.
Performance	Optimized for Cloud performance and	Lightweight and fast for small
	scalability.	teams; depends on hosting
		resources.
Customization	Highly customizable via configuration,	Extremely customizable at code
	marketplace apps, and REST API.	level; open source allows deep
		modification.
Agile Support	Built-in Scrum and Kanban boards,	Requires Agile plugins (e.g.,
	sprints, backlog, burndown, and	Redmine Agile, Easy Redmine).
	velocity charts.	Limited native support.
Issue Types	Tasks, Stories, Bugs, Epics, Sub-tasks;	Trackers (e.g., Bug, Feature,
	customizable with unique workflows.	Support); customizable but less
		flexible by default.
Workflows	Graphical workflow designer with	Configurable per role and tracker,
	conditions, validators, and post-	but editing is text-based; no visual
a 1 0 711	functions.	designer.
Search & Filters	Advanced search with JQL (Jira Query	Basic search and filtering; can be
<b>7</b> 0 0	Language).	enhanced by plugins.
Reporting &	Comprehensive dashboards, burndown,	Basic Gantt chart, calendar, and
Dashboards	velocity, cumulative flow, control	issue lists; more reporting via
4 - 4 4	charts.	plugins.
Automation	Built-in rule engine (triggers,	Limited automation; requires
I	conditions, actions) with UI.	plugins or scripts.
Integrations	Strong ecosystem: Confluence,	Integrations available via plugins or
	Bitbucket, Slack, GitHub, GitLab, Teams, etc.	APIs; quality varies.
ADI Cumant	REST API, webhooks, and extensive	REST and XML APIs available;
API Support	documentation.	· ·
	documentation.	smaller ecosystem.

Security	Plugins / Marketplace	3,000+ official Marketplace apps (test management, Gantt, time tracking, etc.).	Hundreds of community plugins; open source, variable quality.
Scalability   Scales to thousands of users; Data   Center edition for enterprise use.   Center edition for enterprise use.   Email ontifications.	-		
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