

EXPERIMENT 6

Aim: To study agile methodology and test case management using JIRA tool. To create scrum board for scrum master using JIRA tool.

Theory:

Jira is a software development tool that helps teams plan, track, and release software projects. It's a popular tool among software development teams.

JIRA is a widely used issue tracking and project management software developed by Atlassian.

The theory behind JIRA revolves around several key principles and concepts:

Issue Tracking:

At its core, JIRA is designed to help teams track tasks, bugs, features, and other issues within a project. It provides a centralized platform for capturing, organizing, and prioritizing these items.

Agile Methodologies:

JIRA supports agile methodologies such as Scrum and Kanban, enabling teams to plan, track, and deliver work in iterative cycles.

Agile principles emphasize collaboration, adaptability, and delivering value to customers.

Workflow Management:

JIRA allows teams to define custom workflows that represent the lifecycle of an issue from creation to completion. Workflows can include various statuses, transitions, and conditions to reflect the specific processes followed by the team.

Customization:

One of the key strengths of JIRA is its flexibility and customization options. Teams can tailor JIRA to their specific needs by creating custom issue types, fields, workflows, and project configurations.

Collaboration and Communication:

JIRA facilitates collaboration among team members by providing features such as commenting, mentioning, and attaching files to issues. It also integrates with other Atlassian products like Confluence and Bitbucket for seamless communication and knowledge sharing.

Reporting and Analytics:

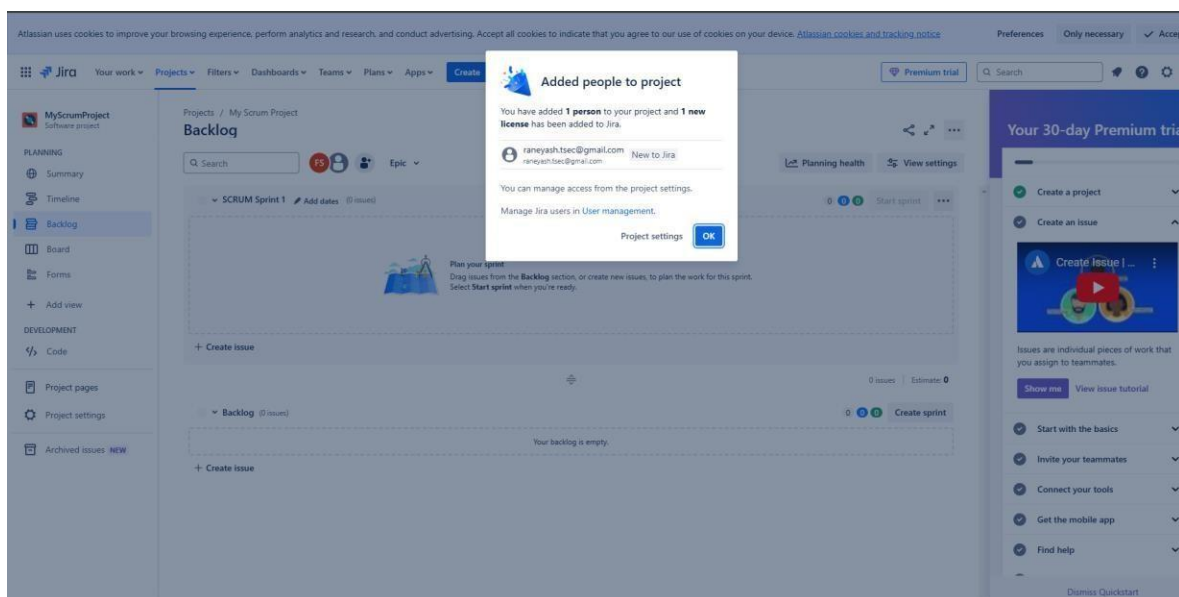
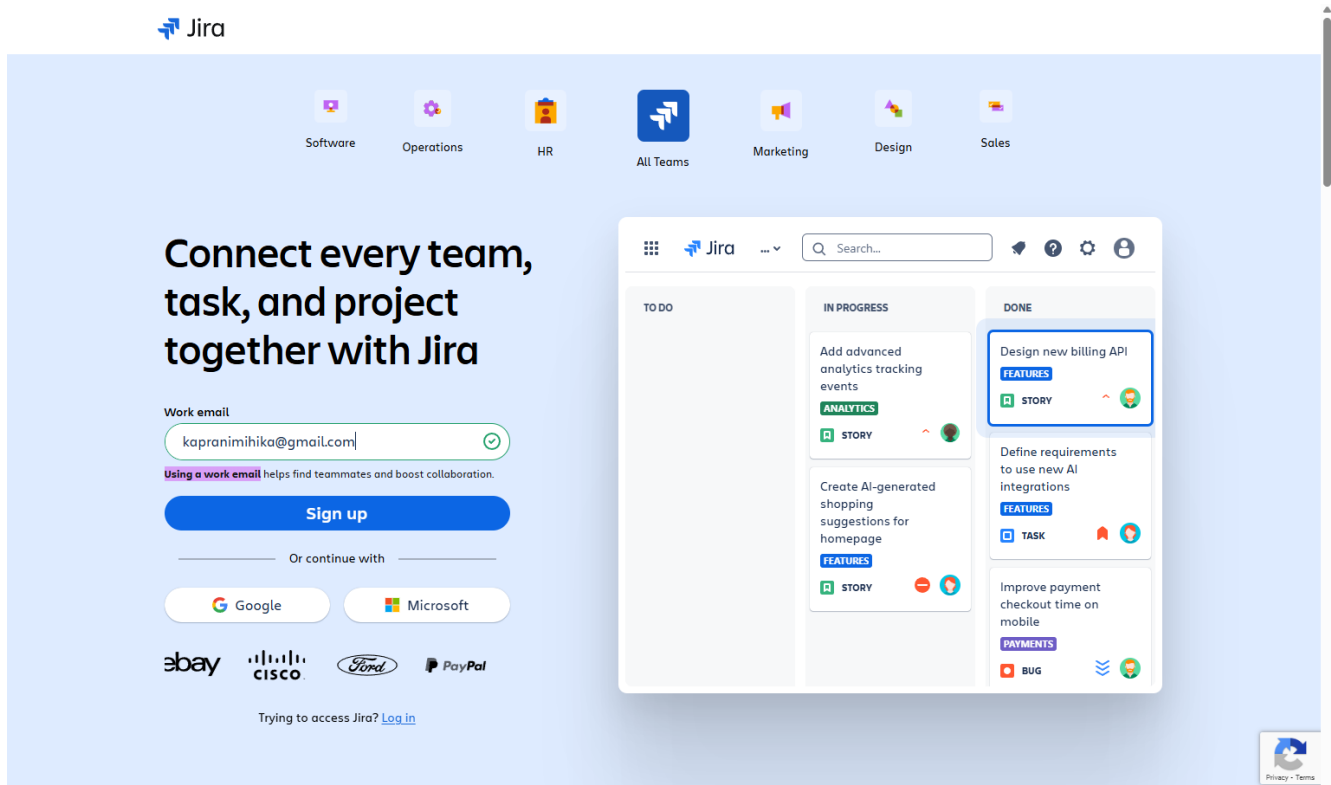
JIRA offers robust reporting and analytics capabilities, allowing teams to gain insights into their project progress, team performance, and other key metrics. Users can create custom dashboards, charts, and reports to monitor and analyze project data.

Integration:

JIRA integrates with a wide range of third-party tools and services, including development tools, CI/CD pipelines, customer support systems, and more. This integration ecosystem enables teams to streamline their workflows and improve productivity.

Scalability and Performance:

JIRA is designed to scale with the needs of growing teams and organizations. It can handle large volumes of data and users while maintaining performance and reliability.



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Jira Your work Projects Filters Dashboards Teams Plans Apps Create Premium trial

MyScrumProject Software project

PLANNING

- Summary
- Timeline
- Backlog
- Board
- Forms
- Goals
- Add view

DEVELOPMENT

- Code
- Project pages
- Project settings
- Archived issues NEW

Projects / MyScrumProject

Summary

0 completed
in the last 7 days

1 updated
in the last 7 days

1 created
in the last 7 days

0 due
in the next 7 days

Status overview

Get a snapshot of the status of your issues. View all issues

1 Total issues

- To Do (1)
- In Progress (0)
- Done (0)

Recent activity

Stay up to date with what's happening across the project.

Today

- Yash Rane updated the Sprint of SCRUM-1 - issues without epic 2 minutes ago
- Yash Rane created SCRUM-1 - issues without epic 2 minutes ago

Priority breakdown

Get a holistic view of how work is being prioritized. See what your team's been focusing on

Types of work

Get a breakdown of issues by their types. View all items

Type	Distribution
<input checked="" type="checkbox"/> Task	100%
<input type="checkbox"/> Epic	
<input type="checkbox"/> Bug	
<input type="checkbox"/> Story	
<input type="checkbox"/> Subtask	

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Projects / MyScrumProject

List

Search list

Share 1 filter applied Group Format More

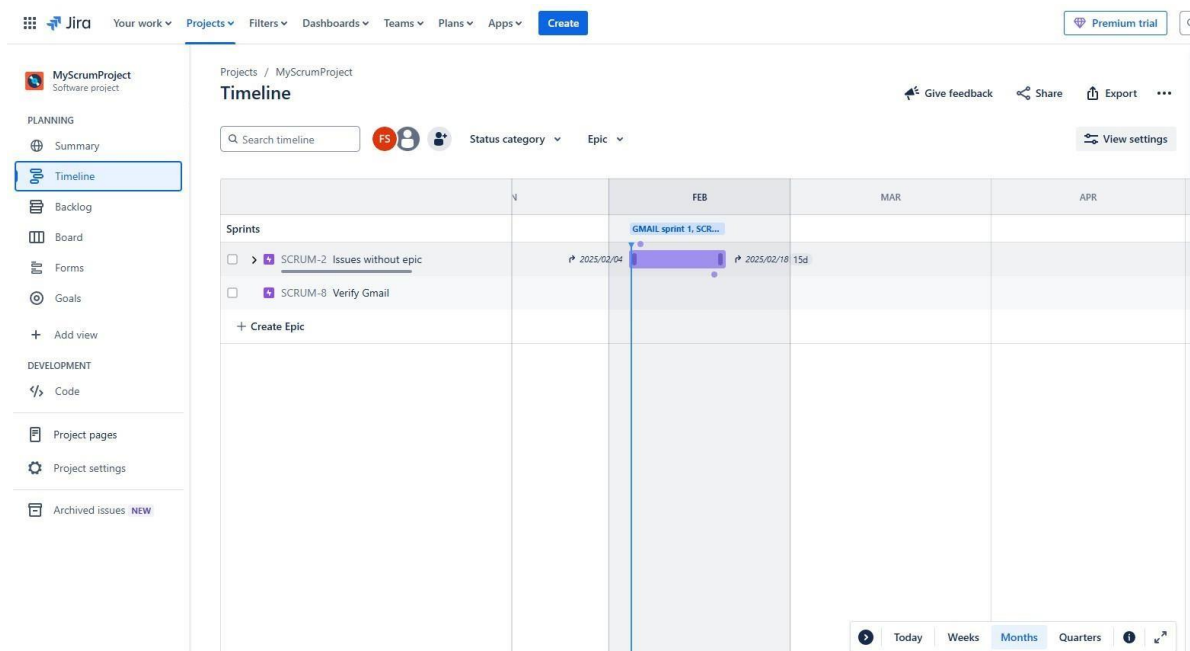
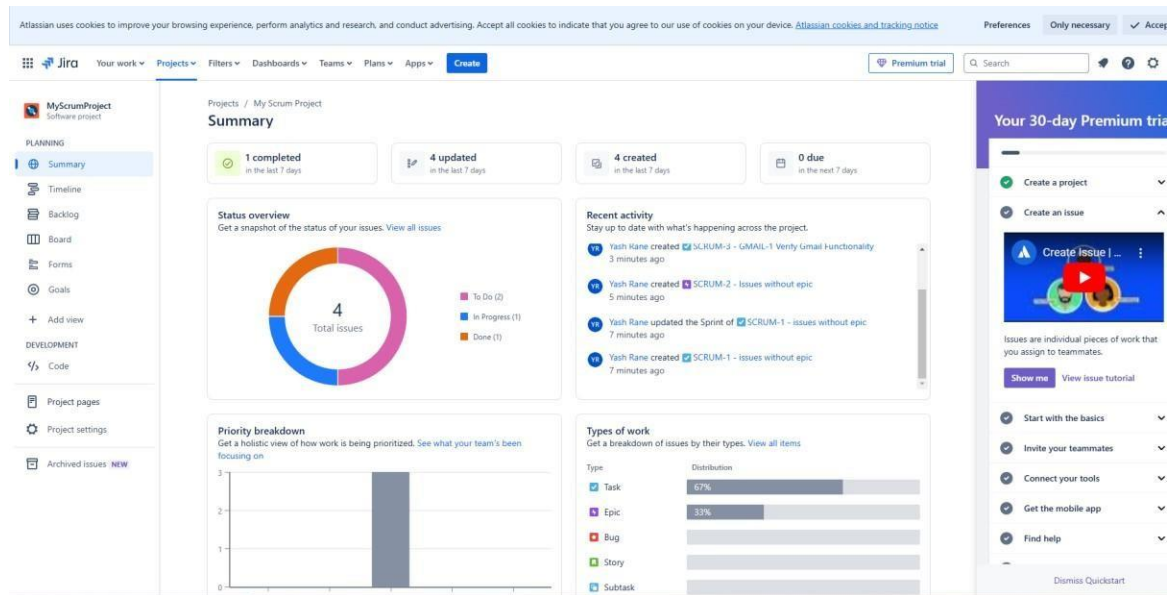
	Type	# Key	Summary	Status	Sprint	@ Assignee	Due date
<input type="checkbox"/>		SCRUM-2	Issues without epic	TO DO			
<input type="checkbox"/>		SCRUM-3	GMAIL-1 Verify Gmail Functionality	TO DO			

+ Create

Nice one!

Marked "SCRUM-4" as Done

[View issue](#)



This screenshot shows the 'All sprints' view in Jira for the 'MyScrumProject' project. The left sidebar contains a navigation menu with sections: PLANNING (Summary, Timeline, Backlog, Board, Forms, Goals, Add view), DEVELOPMENT (Code), Project pages, Project settings, and Archived issues. The 'Board' option is currently selected. The main content area is titled 'All sprints' and includes a search bar, filters for 'Epic' and 'Sprint', and a 'GROUP BY' dropdown set to 'None'. It also features buttons for 'Complete sprint' and 'View settings'. The sprint board is divided into three columns: 'TO DO 1' containing 'GMAIL Sprint 1' (with a sub-item 'ISSUES WITHOUT EPIC') and 'SCRUM-5'; 'IN PROGRESS 1' containing 'issues without epic' and 'SCRUM-1'; and 'DONE' which is currently empty. A '+ Create issue' button is located at the bottom of the 'TO DO' column.

This screenshot shows the 'Forms' view in Jira for the 'MyScrumProject' project. The left sidebar is identical to the previous view, but the 'Forms' option is now selected. The main content area is titled 'Forms' and includes a 'Create a new form' section with buttons for 'Blank form', 'Feature request', 'Bug report', and 'Incident report'. Below this is a 'Recent forms' section featuring a card for a form titled 'Project MyScrumProject - Task Fo...'. This card indicates it was 'Last edited 9 minutes ago by you' and is categorized as a 'Task' with 'Limited' permissions.

This screenshot shows the Jira interface for a project named 'MyScrumProject'. The left sidebar contains navigation options: PLANNING (Summary, Timeline, Backlog, Board, Forms, Goals), DEVELOPMENT (Code, Project pages, Archived issues), and a note about team-managed projects. The main area is titled 'Backlog' and shows a search bar, a filter for 'Epic', and a 'Planning health' indicator. Below this, there's a section for 'Epic' with a '+ Create epic' button. The 'Backlog' section shows a list of issues, including 'SCRUM-1 issues without epic' with a 'TO DO' status. A '+ Create issue' button is visible. The right sidebar features a 'Your 30-day Premium trial' banner and a list of tasks to complete, such as 'Create a project', 'Create an issue', 'Start with the basics', 'Invite your teammates', 'Connect your tools', 'Get the mobile app', 'Find help', 'Discover what else is included', and 'Explore Premium features'.

This screenshot shows the Jira interface for 'MyScrumProject' with filters applied. The left sidebar is the same as the first screenshot. The main area shows the 'Backlog' with a search bar and a filter for 'Epic'. Below this, there's a section for 'Issues without epic' with a '+ Create issue' button. The 'Backlog' section shows a list of issues, including 'SCRUM-1 issues without epic' with a 'TO DO' status. A '+ Create issue' button is visible. The right sidebar features a 'Your 30-day Premium trial' banner and a list of tasks to complete, such as 'Create a project', 'Create an issue', 'Start with the basics', 'Invite your teammates', 'Connect your tools', 'Get the mobile app', 'Find help', 'Discover what else is included', and 'Explore Premium features'.

The screenshot displays the Jira interface for a project named 'MyScrumProject'. The left sidebar shows navigation options: Summary, Timeline, Backlog (selected), Board, Forms, Goals, Code, Project pages, and Archived issues. The main area is titled 'Backlog' and shows a list of issues. The 'Epic' filter is selected, showing issues grouped by epic. The issues are: 'GMAIL sprint 1' (4 Feb - 18 Feb, 1 issue), 'SCRUM Sprint 2' (4 Feb - 18 Feb, 1 issue), 'SCRUM-5 GMAIL Sprint 1' (DONE), 'SCRUM Sprint 3' (Add dates, 0 issues), and 'Backlog' (2 issues). The 'Backlog' group contains 'SCRUM-3 GMAIL-1 Verify Gmail Functionality' (TO DO) and 'SCRUM-6 GMAIL-1 Verty Gmail Functionality' (IN PROGRESS). A 'Your 30-day Premium trial' banner is visible on the right side of the interface.

Conclusion: Thus, we have successfully studied agile methodology and test case management using JIRA tool and create scrum board for scrum master using JIRA tool.