

Experiment 6

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T12-32

AIM: To Study Agile Methodology and Test case Management using JIRA Tool

Theory: Jira is a software development tool that helps team's 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 centralised platform for capturing, organising, and prioritising 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 emphasise 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 analyse 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 organisations. It can handle large volumes of data and users while maintaining performance and reliability.

Steps:

 Jira

Create your account


Email address
work.devanggupta@gmail.com

Full name
Devang Gupta

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 **Other**



Scrum
Plan, prioritize, and schedule sprints using scrum framework



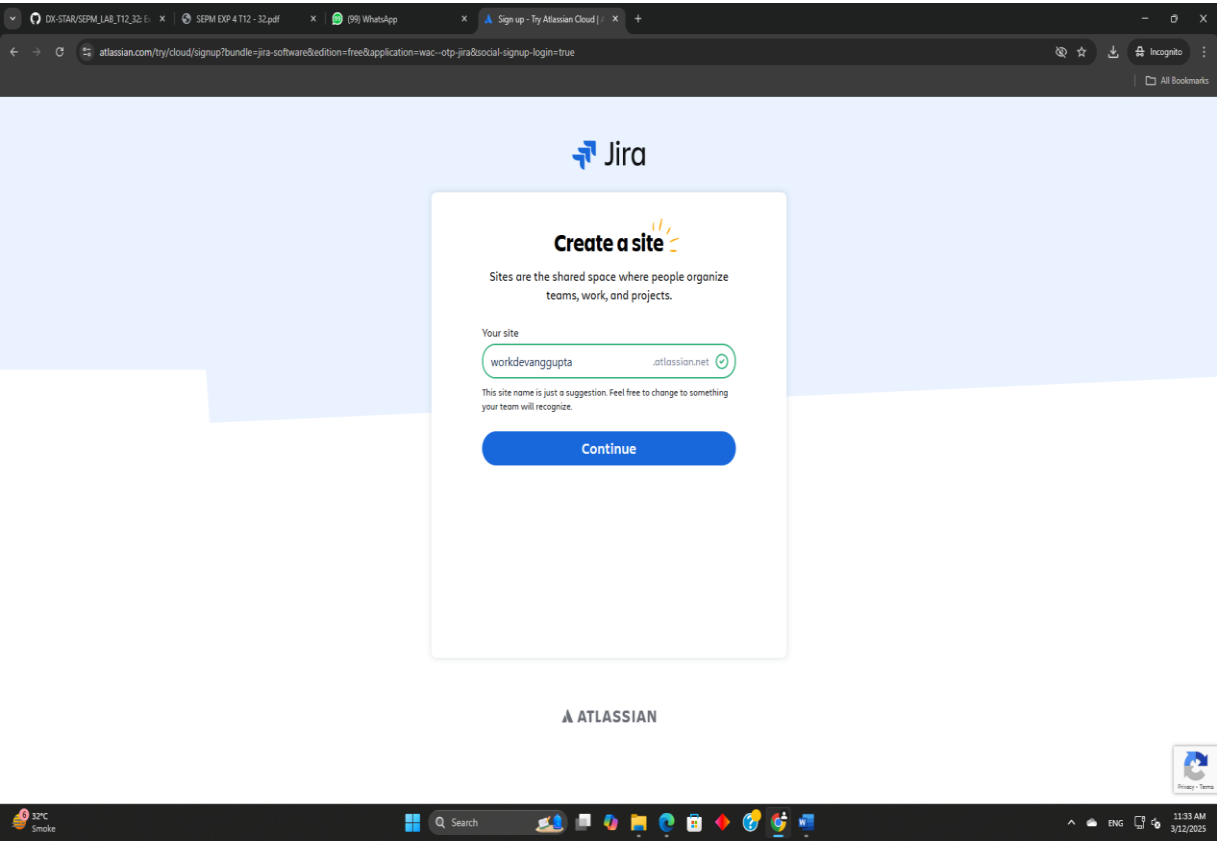
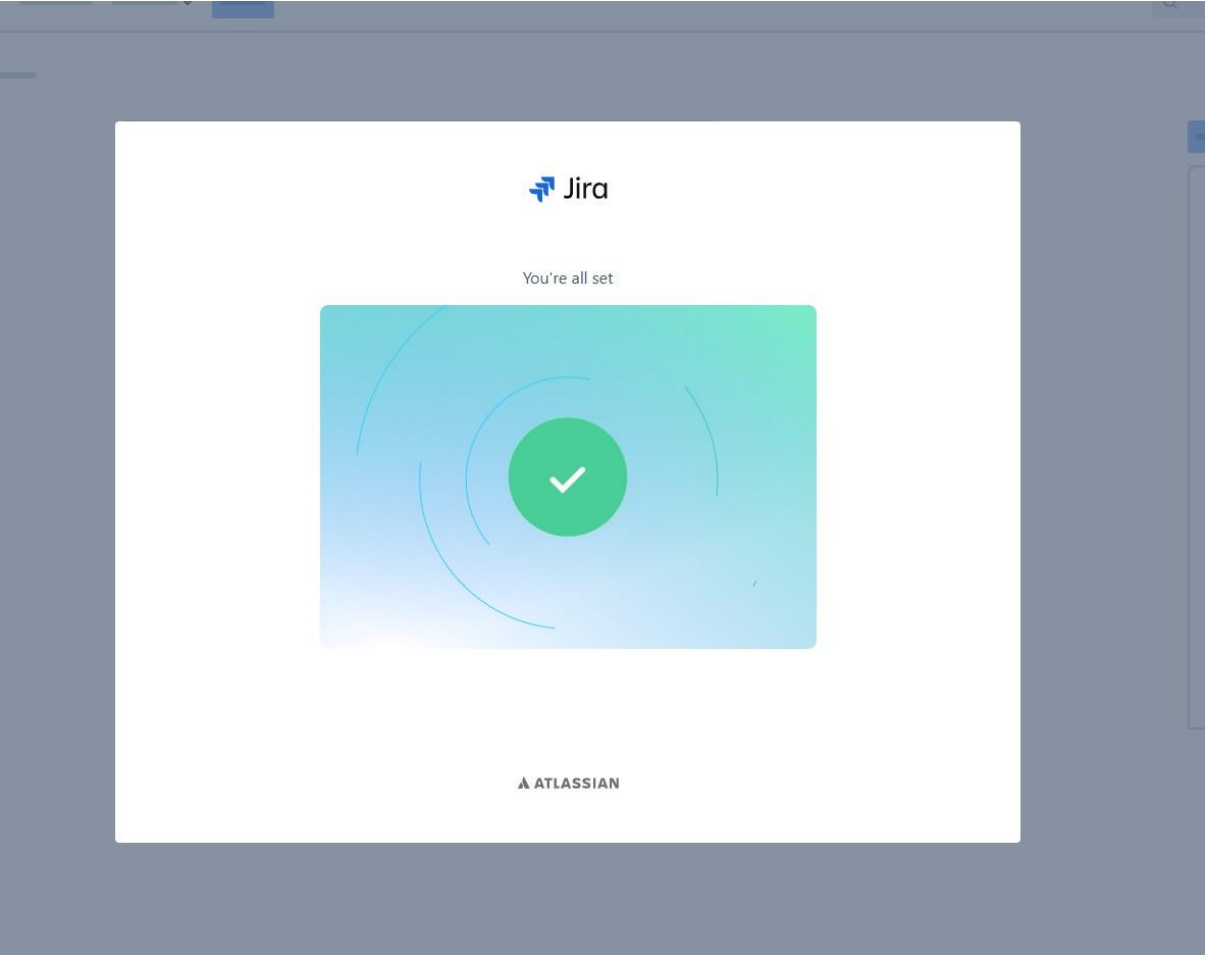
Kanban
Visualize work and maximize efficiency with a kanban board



Project management
Manage, track, and assign tasks to streamline project workflows

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Khazima's Project Software project

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DEVELOPMENT Code Project pages Project settings Archived issues NEW

Projects / Khazima's Project Timeline

Search timeline KH

Sprints + Create Epic

Create a team

Bring everyone together with one team you can @mention, filter, and assign work to. What's a team?

Team name* Khazima's Team

Who can see your team name? *

Who should be in this team? *

Khazima Hammad Choose people

You can invite up to 50 people at once.

Membership controls

☒ Anyone can join this team without approval

Cancel Create a team

Quickstart

- Create a project
- Map out your project goals
- Identify small chunks of work
- Monitor and manage risk
- Create an issue

Create Issue | ...

Issues are individual pieces of work that you assign to teammates.

Show me View issue tutorial

Start with the basics

Invite your teammates

Connect your tools

Dismiss Quickstart

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People and teams Create team Add people

Search for people and teams

People

More search options in Atlas

Your teammate Add people

Khazima Hammad

Arya

Dhanisha Jeswani

Your teams

Share pages and mention teams rather than individual members

Join or create a team now to start collaborating!

Browse all teams Create team

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Sprints

E6-1 E6-1 Welcome members DONE

+ Create Epic

Give feedback Share Export

View settings

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The top screenshot displays the Jira 'Timeline' view for 'Experiment 6'. It shows a list of sprints (E6-1 to E6-7) with their progress bars. The bottom screenshot displays the Jira 'Summary' view for 'Experiment 6', featuring a status overview pie chart, a priority breakdown bar chart, team workload details, and recent activity logs.

Summary View Data:

- Status Overview:** 7 Total issues. Legend: To Do: 3, In Progress: 2, Done: 0.
- Priority Breakdown:**

Priority	Count
Highest	1
High	1
Medium	4
Low	0
Lowest	0
- Team Workload:**

Assignee	Workload (%)
Unassigned	47%
Arya	29%
Dhanishu J...	14%
Khozaima Y...	10%
- Types of Work:**

Type	Distribution (%)
Epic	86%
Story	14%
Task	0%
Bug	0%
Subtask	0%
- Epic Progress:** E6-1 E6-1 Welcome members: 100%.

Conclusion: Hence, we have successfully implemented Agile Methodologies in JIRA.