

Software Engineering & Project Management Lab Experiment No: - 06

Aim: To Study Agile Methodology and Test case Management using JIRA

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 Bit bucket 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:

1. **Open Atlassian.com, Select JIRA, and Login with the Required Credentials:**
 - Purpose: Atlassian provides cloud-based software products, with JIRA being one of its most popular tools for project management and issue tracking.
 - Steps:
 - Navigate to [Atlassian's official website](https://atlassian.com).
 - From the homepage, find and select JIRA Software.
 - You'll be directed to the JIRA login page where you'll need to enter your credentials (username and password) that were provided when your JIRA account was created.
 - If you don't have an account, you can register for one.
2. **Add Yourself to a Particular Team:** ○ Purpose: In a collaborative environment, teams are usually set up in JIRA to organize users who are working on related projects or tasks.

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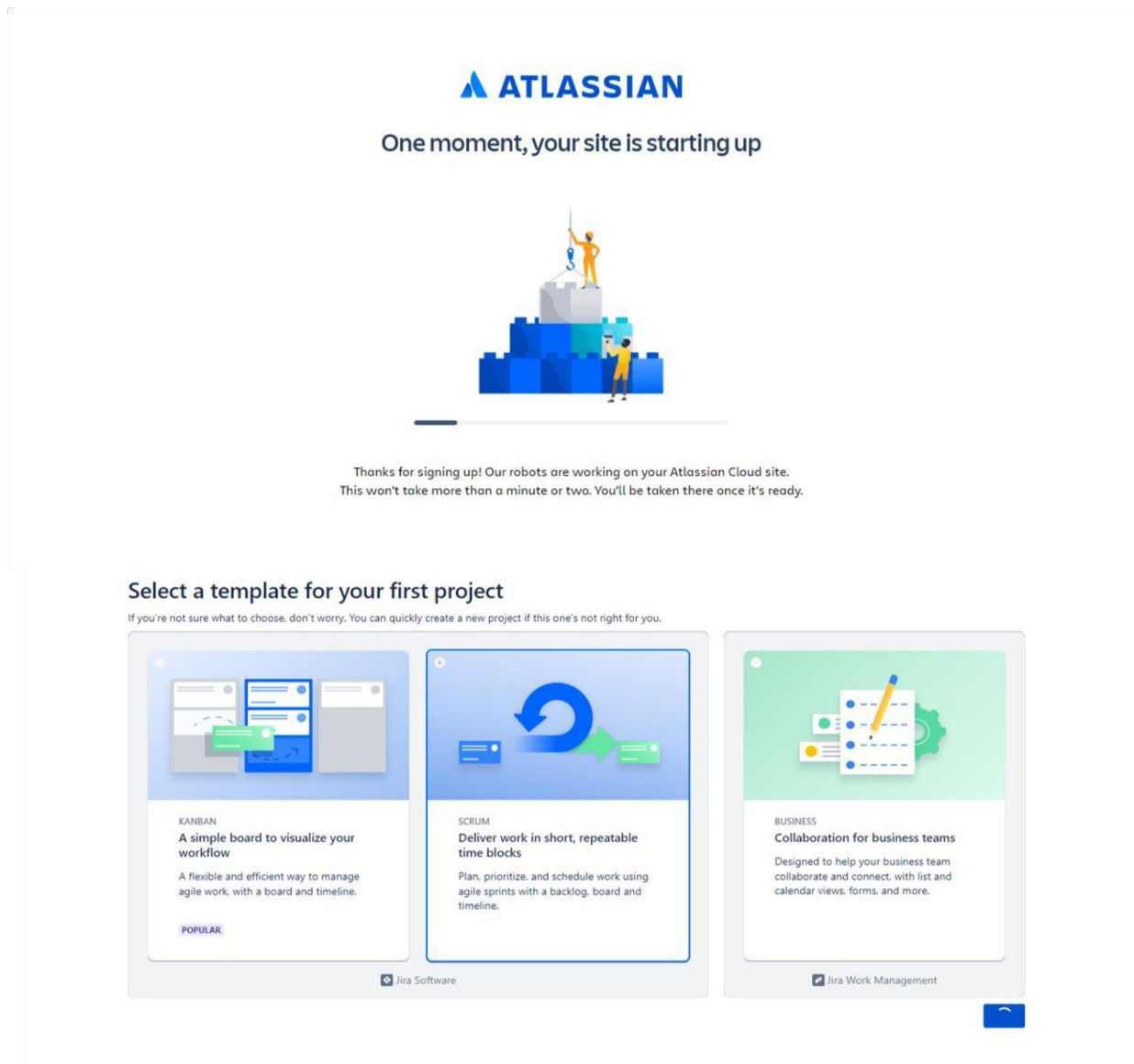
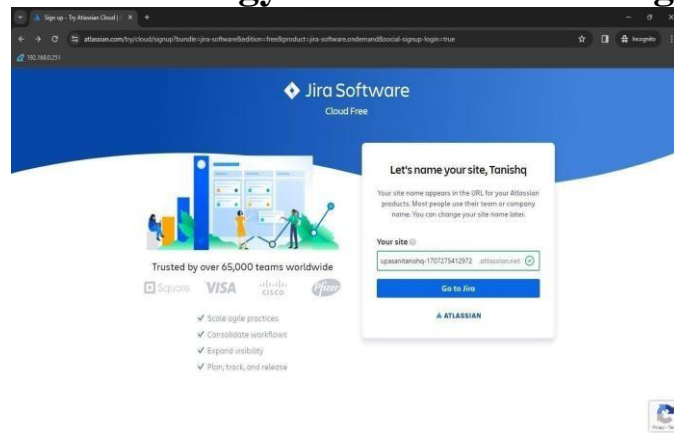
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- Steps:
 - After logging in, navigate to the "People" or "Teams" section of JIRA.
 - Search for the team you need to join (this will typically be an existing team assigned to a project or area of work).
 - Click to request membership or add yourself to the team, depending on the settings in your organization.
 - Your project manager or administrator might approve your membership.
- 3. Complete the Tasks Given by Your Project Manager: ○ Purpose: JIRA is often used to assign and track tasks within a project. Your project manager will create tasks or issues within JIRA and assign them to you.
 - Steps:
 - Once added to the team and assigned tasks, head to the "Dashboard" or "Active Sprint" section, where your tasks or issues are listed.
 - Each task is typically represented as an issue (which can be a bug, feature, improvement, etc.).
 - Open the assigned task, review the details, and start working on it.
 - Update the status of the task as you progress, marking it as In Progress, Under Review, or Done based on your progress.
- 4. Create Projects and Assign Them to Your Team Members:
 - Purpose: As a team member or project manager, you might have the ability to create new projects and manage teams or assign tasks within those projects. ○ Steps:
 - Navigate to the "Projects" section and select "Create Project".
 - Define the project name, description, and type (Scrum, Kanban, etc.).
 - Once the project is created, you can start adding tasks (issues) and assign them to different team members, giving them due dates and priority levels.
 - You may also configure workflows for different project phases.
- 5. Create Your Own Test Cases:
 - Purpose: In software development or other industries, creating test cases is essential for quality assurance. JIRA allows you to document these test cases to track and ensure quality.
 - Steps:
 - Go to your JIRA board and create a new "Issue" (often labeled as a "Test Case" in specific testing workflows).
 - Add the details of the test case, such as Test Description, Test Steps, Expected Results, and Actual Results once executed.
 - Assign the test case to yourself or another team member for execution.
 - The test case can be linked to specific tasks or user stories to ensure quality checks are included in the process.
 - Update the status of the test case after completion, whether it passes or fails. This process helps manage tasks and projects efficiently in JIRA, ensuring transparency and accountability within a team or project.

Output:

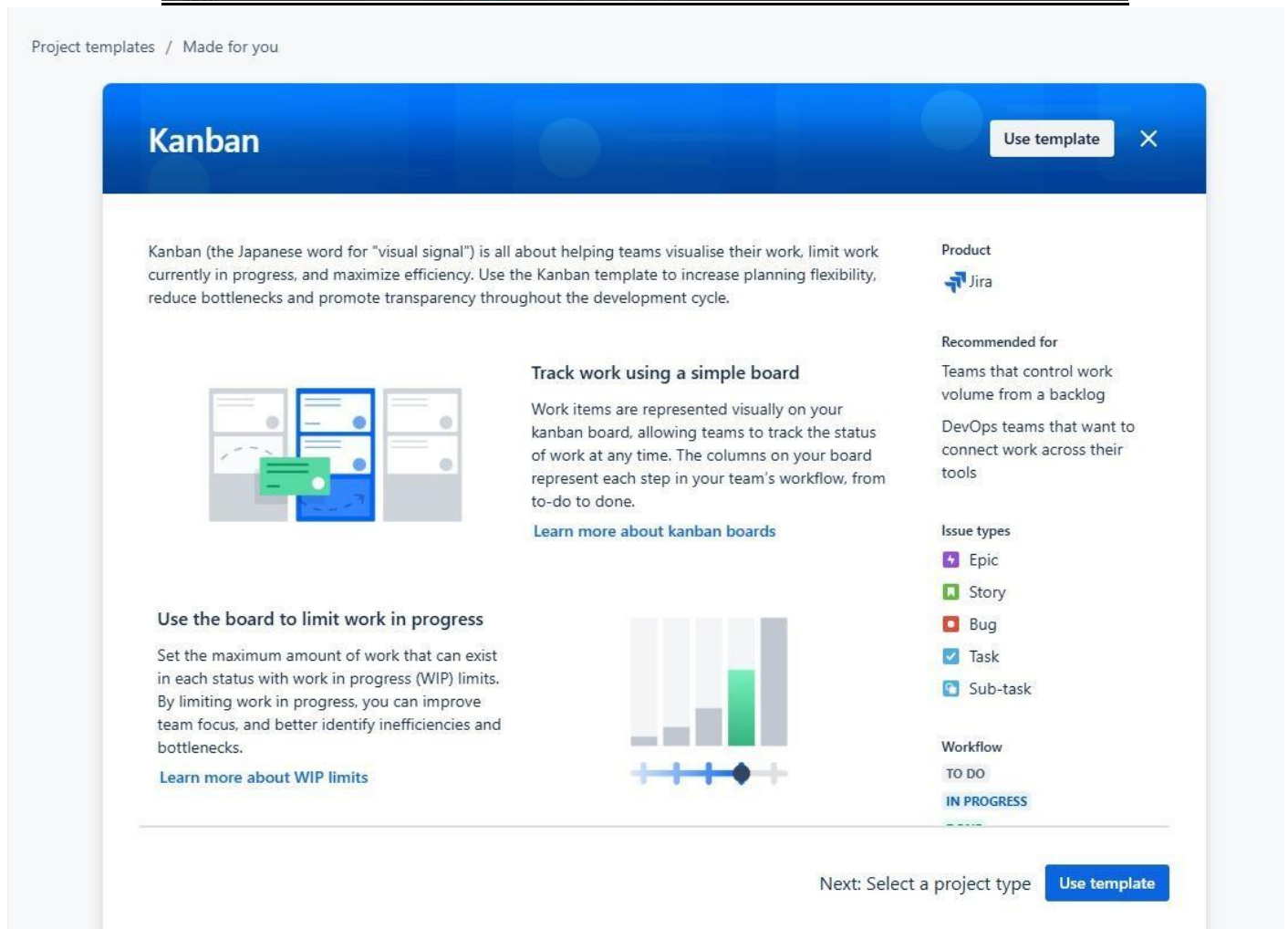
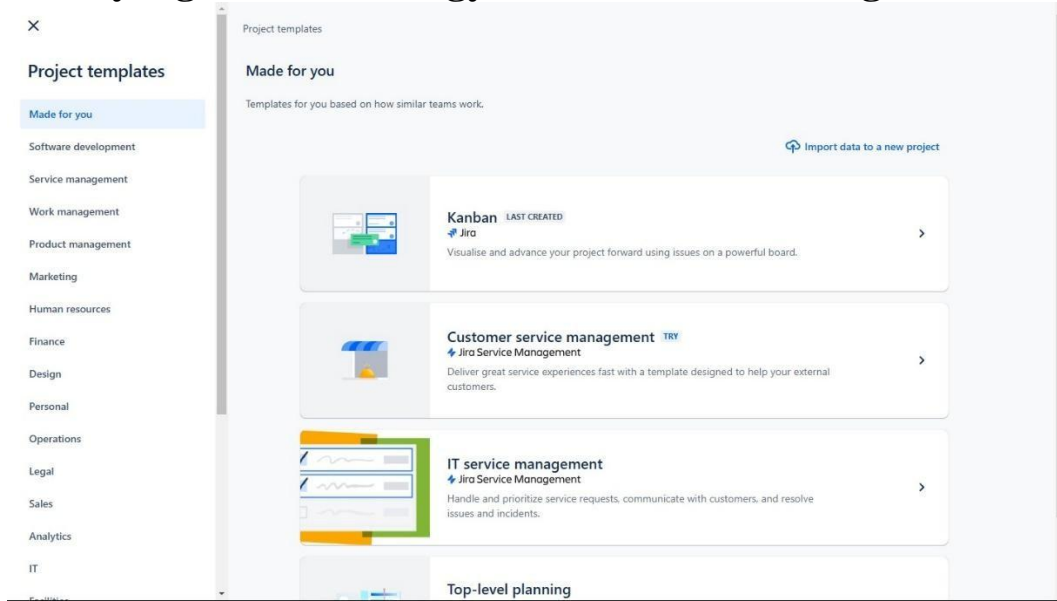
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[Back to project templates](#)

1 Project template



Kanban
Jira

[Change template](#)

Visualise and advance your project forward using issues on a powerful board.

2 Choose a project type

You'll need to create a new project if you decide to switch project types later.

Team-managed

Set up and maintained by your team.

For teams who want to control their own working processes and practices in a self-contained space. Mix and match agile features to support your team as you grow in size and complexity.

Simplified configuration



Select a team-managed project

Company-managed

Set up and maintained by your Jira admins.

For teams who want to work with other teams across many projects in a standard way. Encourage and promote organizational best practices and processes through a shared configuration.

Expert configuration



Select a company-managed project

The last project you created was a team-managed project

Add project details

Explore what's possible when you collaborate with your team. Edit project details anytime in project settings.

Required fields are marked with an asterisk *

Name *

Try a team name, project goal, milestone...

Access *

Choose an access level

Key *

Template

[Change template](#)



Kanban
Jira

Visualise and advance your project forward using issues on a powerful board.

Type

[Change type](#)



Team-managed

Control your own working processes and practices in a self-contained space.

[Cancel](#)

[Create project](#)

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Add project details

Explore what's possible when you collaborate with your team. Edit project details anytime in project settings.

Required fields are marked with an asterisk *

Name *

Access *

 Open

Key ⓘ *

Template

Change template



Kanban
Jira
Visualise and advance your project forward using issues on a powerful board.

Type


Change type









Team-managed
Control your own working processes and practices in a self-contained space.

Cancel


Create project


**pookies<3**
Software project


PLANNING


-  Summary
-  Timeline
-  **Board**
-  List
-  Forms
-  Add view

DEVELOPMENT





-  Code

 Project pages




 Project settings



 Archived issues **NEW**

Projects / pookies<3


 Start stand-up ...

POOK board




GROUP BY **None**  Insights  View settings

TO DO

 Create

IN PROGRESS

DONE 

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The image displays two screenshots of the JIRA software interface. The top screenshot shows an issue page for 'POOK-1'. It includes sections for 'Assignments' with a '+ Add' button and '@ Apps' link, a 'Description' field with the placeholder 'Add a description...', and an 'Activity' section with tabs for 'All', 'Comments', and 'History'. A comment input box is visible with the placeholder 'Add a comment...' and a 'Pro tip: press M to comment' message. On the right, a sidebar contains a 'To Do' dropdown, 'Actions' and 'Improve issue' buttons, a 'Pinned fields' section, a 'Details' section with fields like 'Assignee' (Unassigned), 'Labels' (None), 'Parent' (None), 'Team' (None), 'Development' (Create branch, Create commit), and 'Reporter' (Alisha). The bottom screenshot shows the 'Timeline' view for the 'pookies' project. It features a search bar, user avatars, and filters for 'Status category' and 'Epic'. The timeline itself is a grid with columns for 'FEB', 'MAR', and 'APR'. A list of sprints is on the left, including 'SCRUM-1 assignment', 'SCRUM-3 to be done by alisha TO DO', 'SCRUM-2 lecture' (with a date range of 2025/03/10 to 2025/03/23), 'SCRUM-6 complete all pendi... TO DO', 'SCRUM-4 experiments', 'SCRUM-5 complete all pendi... TO DO', 'SCRUM-7 notes', and 'SCRUM-8 make notes TO DO'. A '+ Create Epic' button is at the bottom left. The bottom right of the timeline view has a navigation bar with 'Today', 'Weeks', 'Months', 'Quarters', and a 'Quickstart' button.

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Projects / pookies

Timeline

Give feedback Share Export

A SJ

Status category

Epic

Sprints

SCRUM-1 assignment

SCRUM-3 to be done by... TO DO

SCRUM-2 lecture

SCRUM-6 complete all pendi... TO DO

SCRUM-4 experiments

SCRUM-5 complete all pendi... TO DO

SCRUM-7 notes

SCRUM-8 make notes TO DO

+ Create Epic

Today Weeks Months Quarters

SCRUM-1 /

SCRUM-3

to be done by alisha

+ Add

To Do Actions

Improve issue

Description

Add a description...

Confluence content

Product requirements REQUEST TO TRY

Pinned fields

Click on the next to a field label to start pinning.

Projects / pookies

Timeline

Give feedback Share Export

A SJ

Status category

Epic

Sprints

SCRUM-1 assignment

SCRUM-3 to be done by alisha TO DO

SCRUM-2 lecture

SCRUM-6 complete all pendi... TO DO

SCRUM-4 experiments

SCRUM-5 complete all pendi... TO DO

SCRUM-7 notes

SCRUM-8 make notes TO DO

+ Create Epic

Today Weeks Months Quarters

SCRUM-1 /

SCRUM-3

Details

Assignee SJ Sujal Jain Assign to me

Labels None

Parent SCRUM-1 assignment

Team None

Sprint None

Story point estimate None

Development Create branch Create commit

Reporter A Alisha

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Projects / pookies

Timeline

Give feedback Share Export

Search timeline A SJ Status category Epic

The screenshot shows the Jira Timeline view for a project named 'pookies'. The timeline is set to 'Months' and shows a grid for the month of February. On the left, a list of sprints is visible: SCRUM-1 assignment, SCRUM-3 to be done by alisha (TO DO), SCRUM-2 lecture, SCRUM-6 complete all pendi... (TO DO), SCRUM-4 experiments, SCRUM-5 complete all pendi... (TO DO), SCRUM-7 notes, and SCRUM-8 make notes (TO DO). A task 'SCRUM-3 to be done by alisha' is highlighted in blue. On the right, a 'Details' panel for the selected task shows the assignee as 'Suja Jain', labels as 'None', parent as 'SCRUM-1 assignment', team as 'None', sprint as 'None', story point estimate as 'None', and reporter as 'Alisha'. The bottom navigation bar includes 'Jira', 'Your work', 'Projects', 'Filters', 'Dashboards', 'Teams', 'Plans', 'Apps', and a 'Create' button. A '30 days left' badge is also present.

People and teams

Create team Add people

Search for people and teams

People

More search options in Atlas

Your teammate

Add people

Alisha

Sujal Jain

Aarya

Your teams

Browse all teams

Your new team!

Create team

pookies<3

Show all your teams

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

LO Mapping: LO3 is mapped.