

Software Engineering and Project Management Lab Experiment No: - 07

Aim: To Create Scrum Board for Scrum Master using JIRA Tool.

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Theory:

JIRA is a powerful project management tool widely used for implementing Agile methodologies such as Scrum. It enables teams to plan, track, and manage software development tasks through user stories, sprints, and boards. This experiment focuses on setting up a Scrum project in JIRA, creating user stories, managing the backlog, and configuring Scrum boards.

Key Features of JIRA Scrum Projects:

- ❖ Template-driven Scrum project setup
- ❖ Interactive product backlog
- ❖ User story creation and prioritization
- ❖ Sprint planning and execution support
- ❖ Customizable Scrum boards
- ❖ Real-time collaboration and tracking

Components Involved:

<u>Component</u>	<u>Description</u>
Scrum Template	Predefined format to set up an Agile Scrum project
Product Backlog	Collection of prioritized user stories and tasks
User Stories	Functional requirements from the user's point of view
Scrum Board	Visual board to track tasks across sprints
Quick Filters	Help in narrowing down and managing the board

Demonstration (Theoretical Steps):

Step 1: Create a Scrum Project in JIRA

1. Log in to your JIRA account.
2. From the project templates, choose the Scrum template.
3. Once created, you'll land on the Product Backlog view — initially empty.

Step 2: Create User Stories or Tasks

- ❖ In JIRA, tasks, bugs, and stories are called issues.
- ❖ Use the Quick Create option to add user stories.
- ❖ Use the standard format for stories:
"As a {type of user}, I want {goal} so that I {receive benefit}".

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Step 3: Prioritize User Stories in the Backlog

Rearrange user stories by drag-and-drop or ranking.

The Product Owner typically prioritizes, and the team estimates effort.

This order decides what gets pulled into the sprint first.

Step 4: Create a Scrum Board

1. Go to Search > View all boards > Create board.
2. Select Scrum Board and link it to the existing project.
3. Configure columns and quick filters to match your workflow (e.g., To Do, In Progress, Done).

Step 5: Navigate Between Boards

- ❖ Use the Board Switcher from the left-hand menu under the project name.
- ❖ Easily switch between multiple boards if working on several projects.

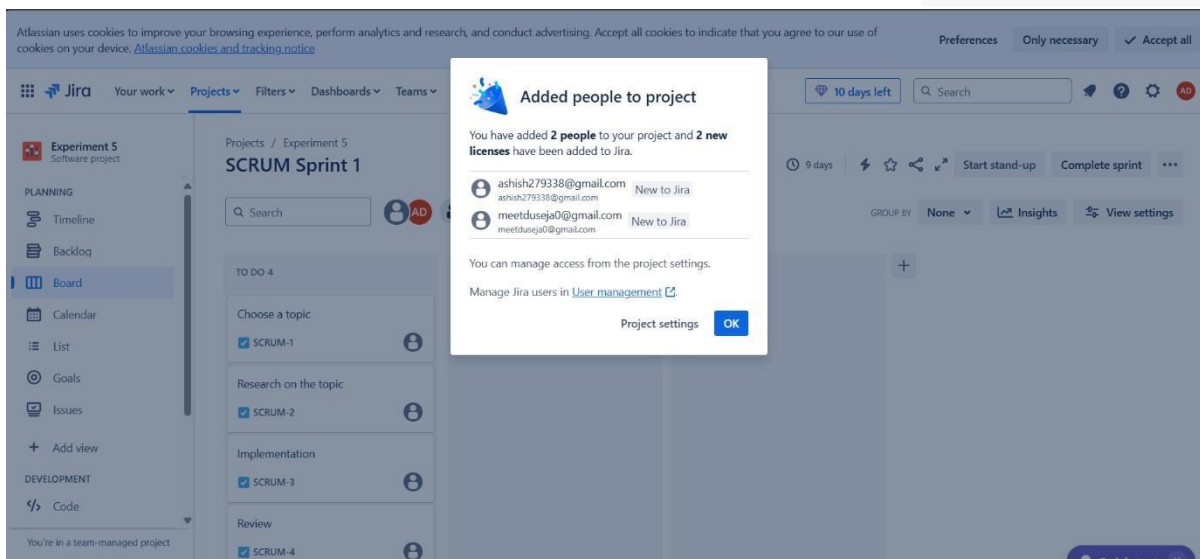
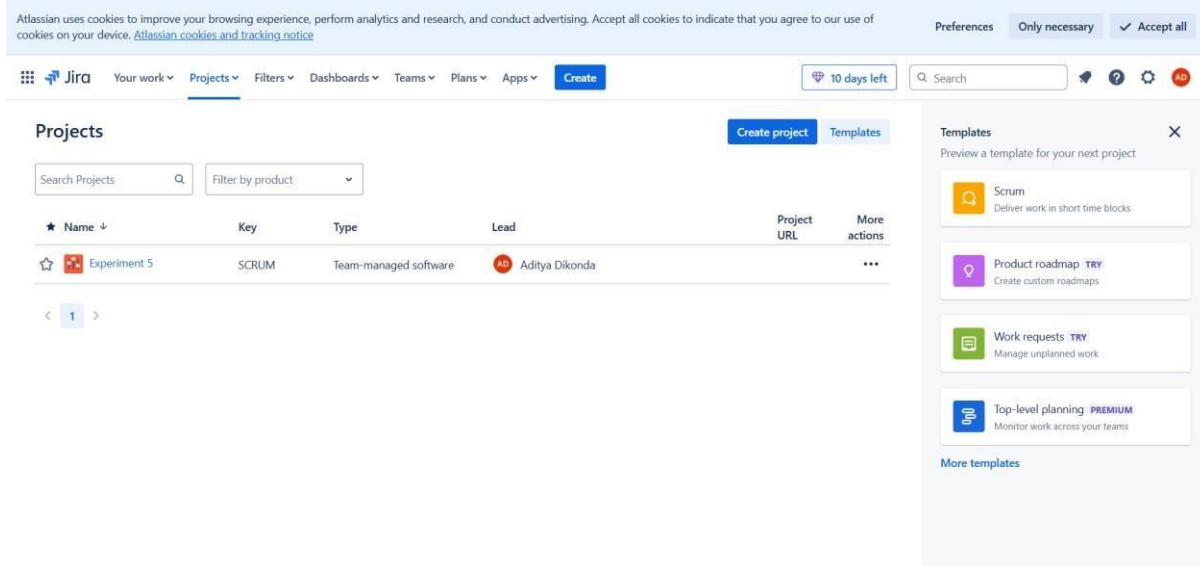
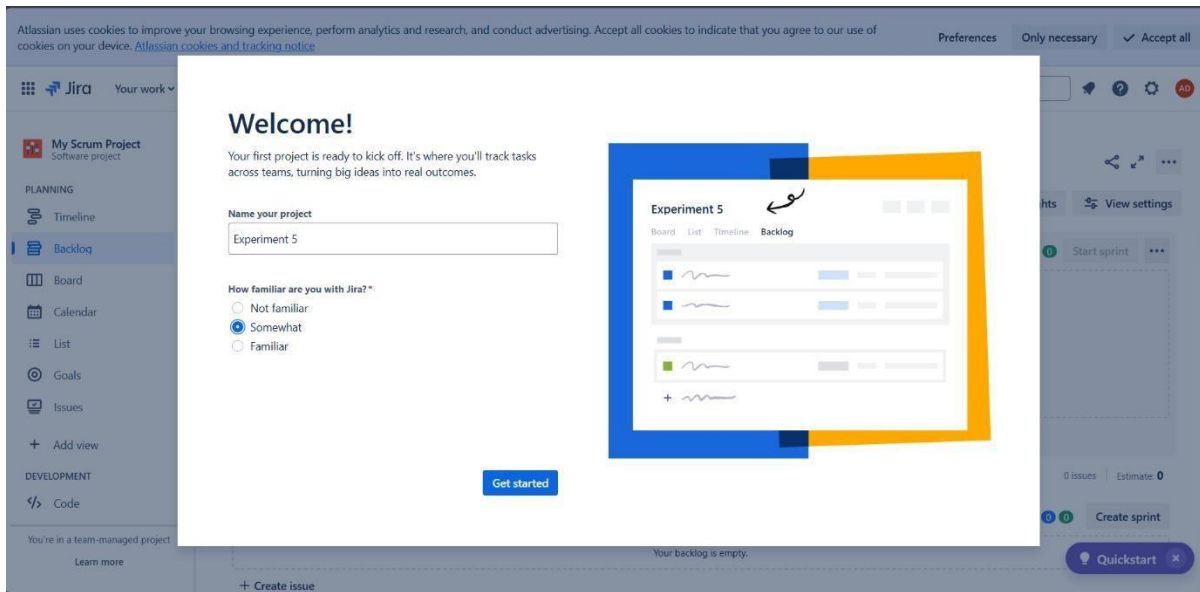
Use Case Example:

- ❖ Sprint-based development of a college project management portal.
- ❖ Bug tracking and resolution in an Agile web app project.
- ❖ Managing feature releases and feedback cycles for a mobile app.

Implementation:

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The image displays three sequential screenshots of the Jira web interface, illustrating the steps to create a Scrum Board for a project named 'Experiment 5'.

Top Screenshot: Shows the 'Choose a topic' dialog box for creating a new issue. The 'Add' button is highlighted. The 'Details' section on the right shows the issue is assigned to 'Aditya Dikonda', has no labels, parent, team, or sprint, and is reported by 'ashish279338'.

Middle Screenshot: Shows the 'Add Flag' dialog box. The text 'Not a good topic' is entered in the input field. The 'Confirm' button is highlighted.

Bottom Screenshot: Shows the 'SCRUM Sprint 1' board. The board is divided into columns: 'TO DO 4', 'IN PROGRESS', and 'DONE'. The 'TO DO 4' column contains four issues: 'Choose a topic' (SCRUM-1), 'Research on the topic' (SCRUM-2), 'Implementation' (SCRUM-3), and 'Review' (SCRUM-4). The 'IN PROGRESS' and 'DONE' columns are currently empty.

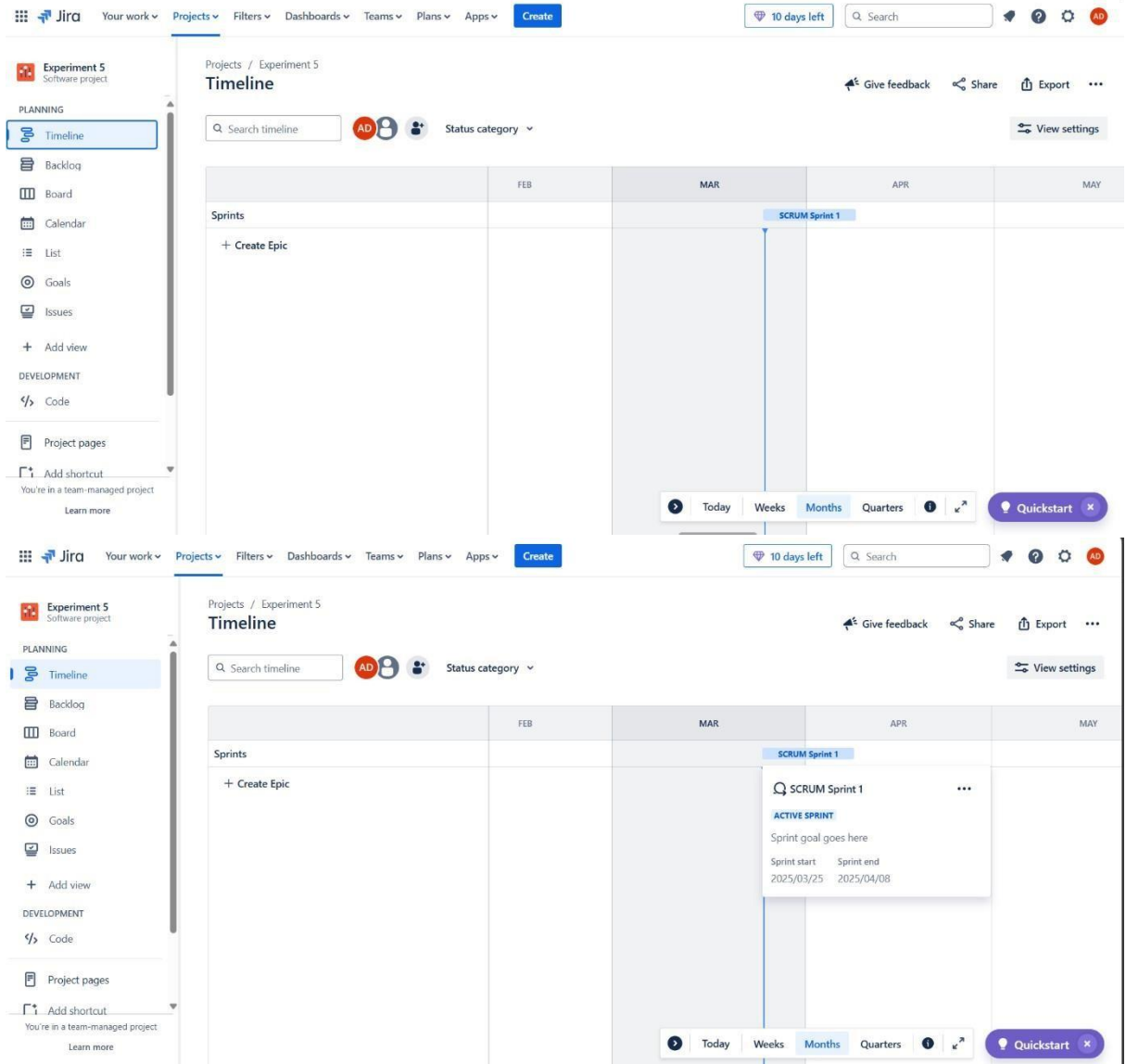
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The image displays two screenshots of the Jira web application interface. The top screenshot shows a 'Remove Flag' dialog box overlaid on the Jira interface. The dialog box has a title bar 'Remove Flag' and a text input field containing 'Good topic:'. Below the input field are 'Cancel' and 'Confirm' buttons. The background shows the Jira interface with a sidebar on the left containing navigation options like 'Experiment 5', 'PLANNING', 'Timeline', 'Backlog', 'Board', 'Calendar', 'List', 'Goals', 'Issues', 'Add view', 'DEVELOPMENT', 'Code', and 'Project pages'. The main content area shows a 'SCRUM' board with a 'TO DO' column containing four issues: 'SCRUM-1 Choose a topic', 'SCRUM-2 Research on the topic', 'SCRUM-3 Implementation', and 'SCRUM-4 Review'. The bottom screenshot shows the 'Backlog' view for 'Experiment 5'. The sidebar is the same. The main content area shows a 'Backlog' view with a search bar, a filter dropdown set to 'Epic', and a list of issues under 'SCRUM Sprint 1 25 Mar - 8 Apr (4 issues)'. The issues are the same as in the top screenshot. Below the sprint list is a 'Backlog (0 issues)' section with a 'Create sprint' button. At the bottom right, there is a 'Quickstart' button.

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Conclusion: We have successfully created Scrum Board for Scrum Master using JIRA Tool.

LO Mapping: LO is mapped