

Experiment No. 07**AIM: To Create Scrum Board for Scrum Master using JIRA Tool.**

THEORY:

1. Introduction to Scrum Boards in JIRA

A Scrum Board in JIRA is a visual management tool that helps teams manage their backlog, sprint planning, daily stand-ups, and sprint reviews. It represents the workflow of tasks from "To Do" to "Done" using columns and swimlanes.

2. Understanding the Role of a Scrum Master in Relation to the Scrum Board

The Scrum Master facilitates the Scrum process, ensures agile principles are followed, and helps the team stay organized. In JIRA, the Scrum Master customizes the Scrum Board to:

- Enable clear visibility of work.
- Support effective sprint planning.
- Monitor team performance and bottlenecks.

3. Key Components of a Scrum Board in JIRA

- **Columns:** Represent different stages of work (e.g., To Do, In Progress, Review, Done).
- **Swimlanes:** Group issues by priority, assignee, or epics.
- **Backlog:** A list of all tasks that are not yet assigned to a sprint.

- **Filters:** Define what issues appear on the board using JQL (JIRA Query Language).
- **Quick Filters:** Allow for quick views (e.g., show issues assigned to a specific team member).

4. Steps to Create a Scrum Board in JIRA

Step 1: Access JIRA and Navigate to Board Creation

- Go to the JIRA dashboard.
- Click on "Boards" in the top navigation bar.
- Select "Create Board."

Step 2: Choose the Board Type

- Scrum Board: Ideal for teams working in sprints.
- Choose "Scrum Board" and click "Next."

Step 3: Select a Board Source

- From an Existing Project: If the team already has a project.
- From an Existing Filter: If you want to create a board based on specific JQL queries.

Step 4: Configure Board Settings

- Name the board clearly (e.g., "Sprint Board – Team Alpha").
- Assign the board to the relevant project or filter.

Step 5: Customize Columns and Swimlanes

- Go to "Board Settings" > "Columns" to adjust stages.
- Define workflows for each column (e.g., setting "In Review" before "Done").
- Use "Swimlanes" to organize issues by Epic, Assignee, or Priority.

Step 6: Set Up Quick Filters

- Add custom filters to view specific issues (e.g., "My Issues," "High Priority").

Step 7: Manage Backlog and Sprints

- Enable the backlog view for effective sprint planning.
- Create and manage sprints, dragging issues from the backlog to the sprint.

5. Advanced Configurations

- **Card Layout:** Customize what information appears on each issue card.
- **Estimation:** Use story points or time estimates to track progress.
- **Work In Progress (WIP) Limits:** Set limits to prevent overloading the team.

6. Best Practices for Scrum Masters Using JIRA Boards

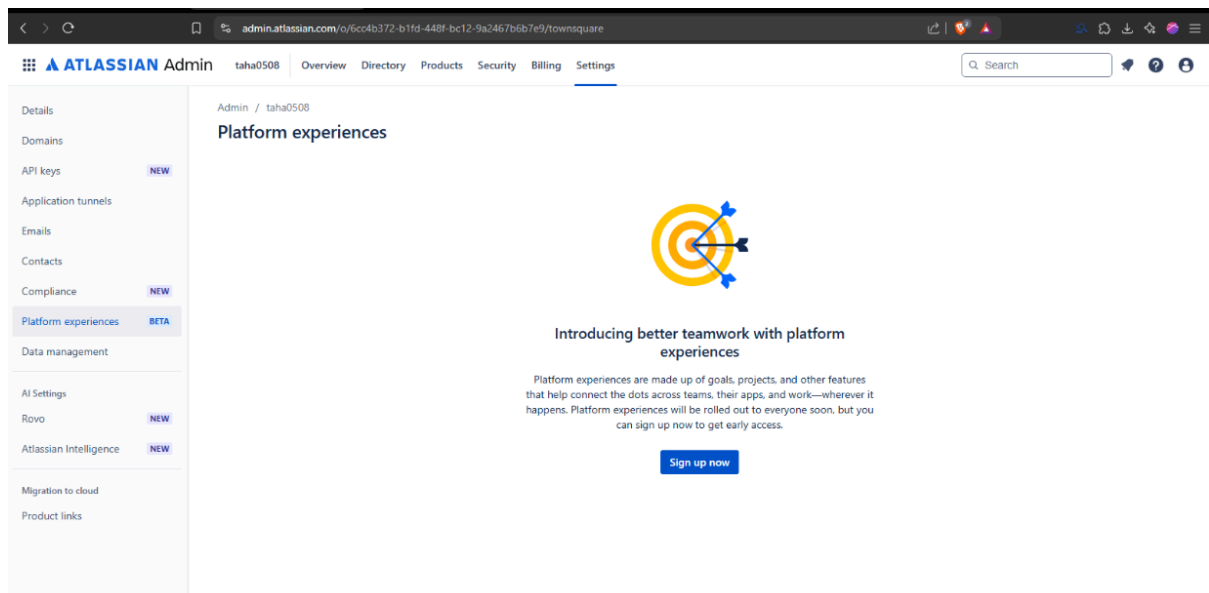
- Regularly review and update the board to reflect the current sprint status.
- Use filters and swimlanes to focus on critical issues during stand-ups.
- Encourage the team to update the board in real-time for transparency.

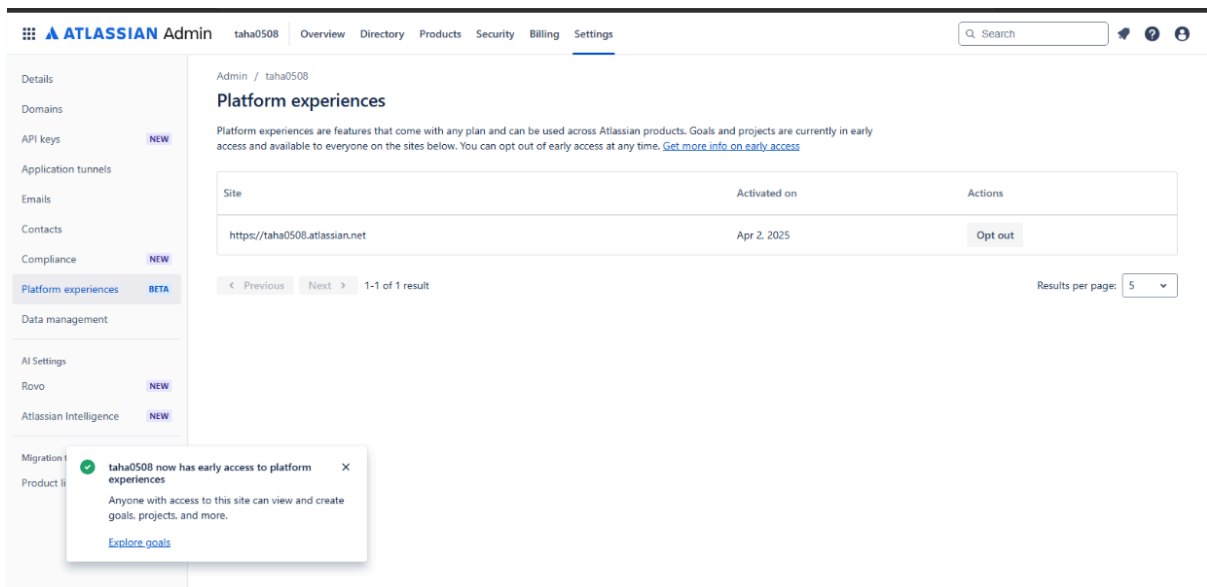
- Analyze board data to identify trends, blockers, and areas for improvement.

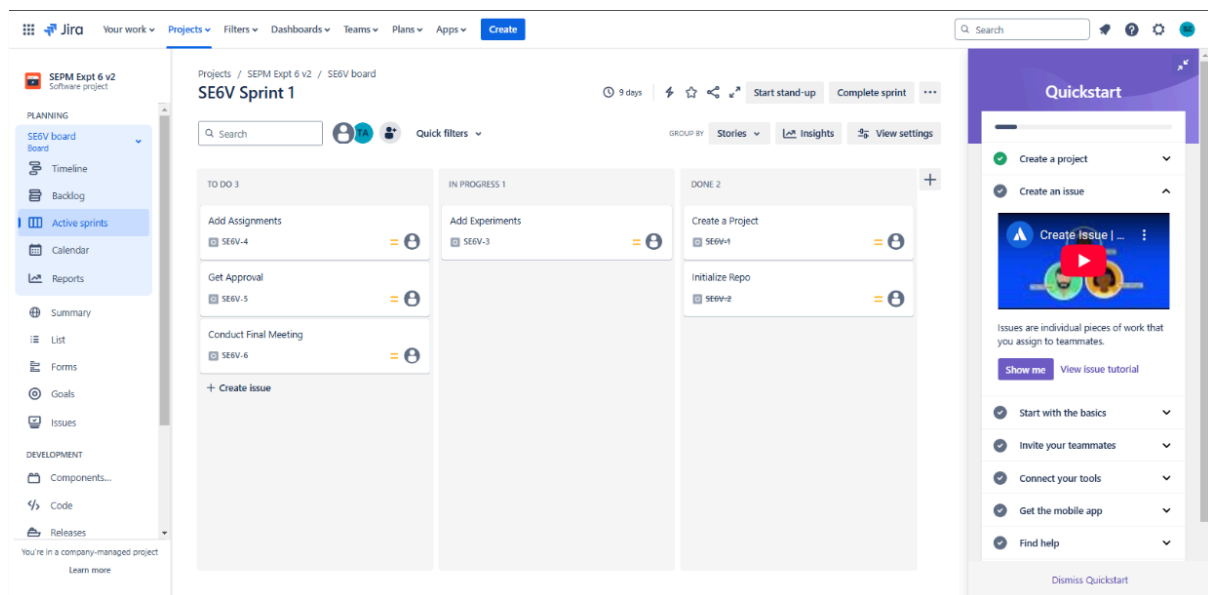
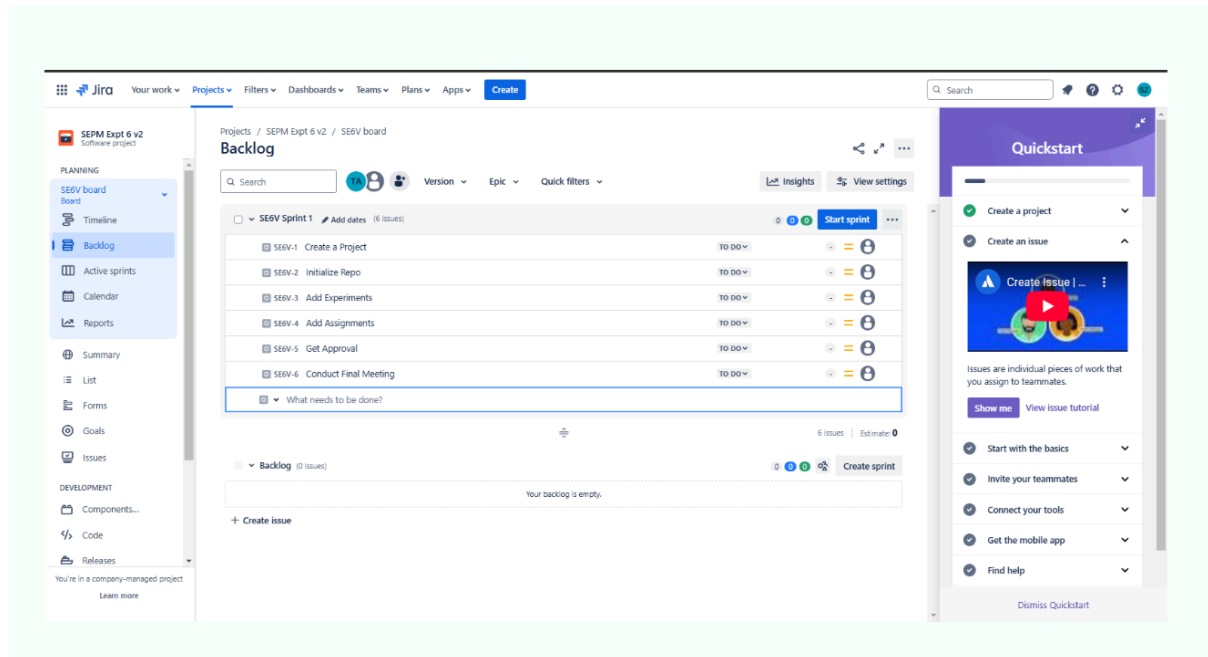
7. Monitoring and Reporting

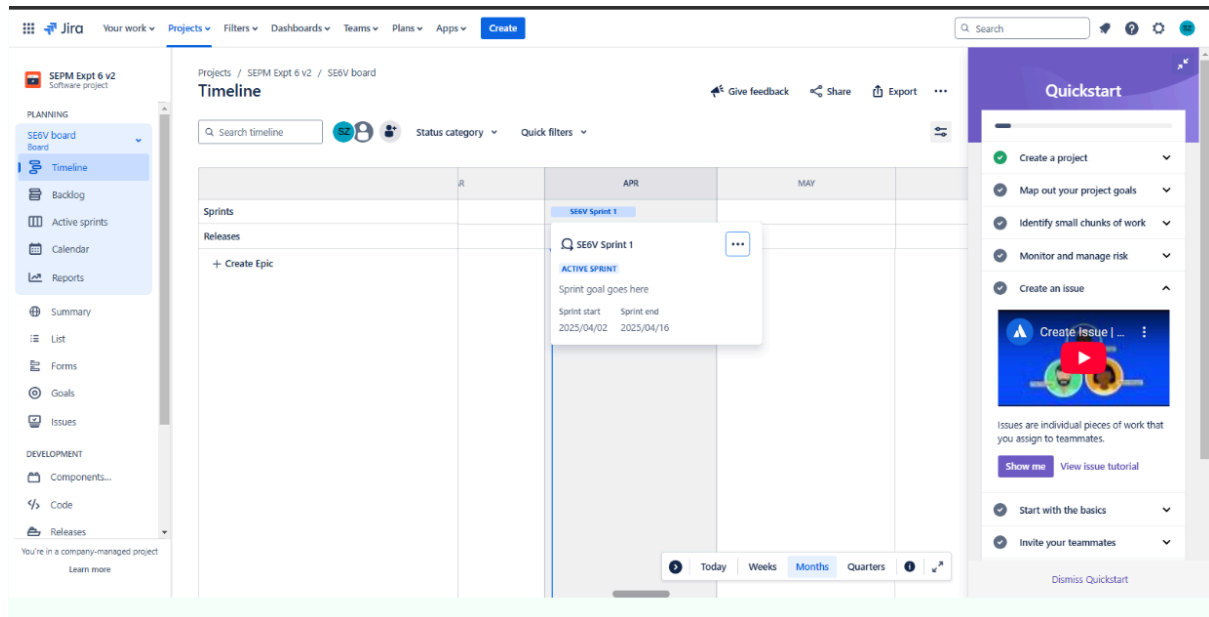
- Utilize JIRA reports (burndown charts, velocity charts) to track sprint progress.
- Configure dashboards for high-level insights on team performance.

Output:









CONCLUSION: Hence, we have successfully implemented a Scrum project using JIRA.