

## Experiment 06

**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.

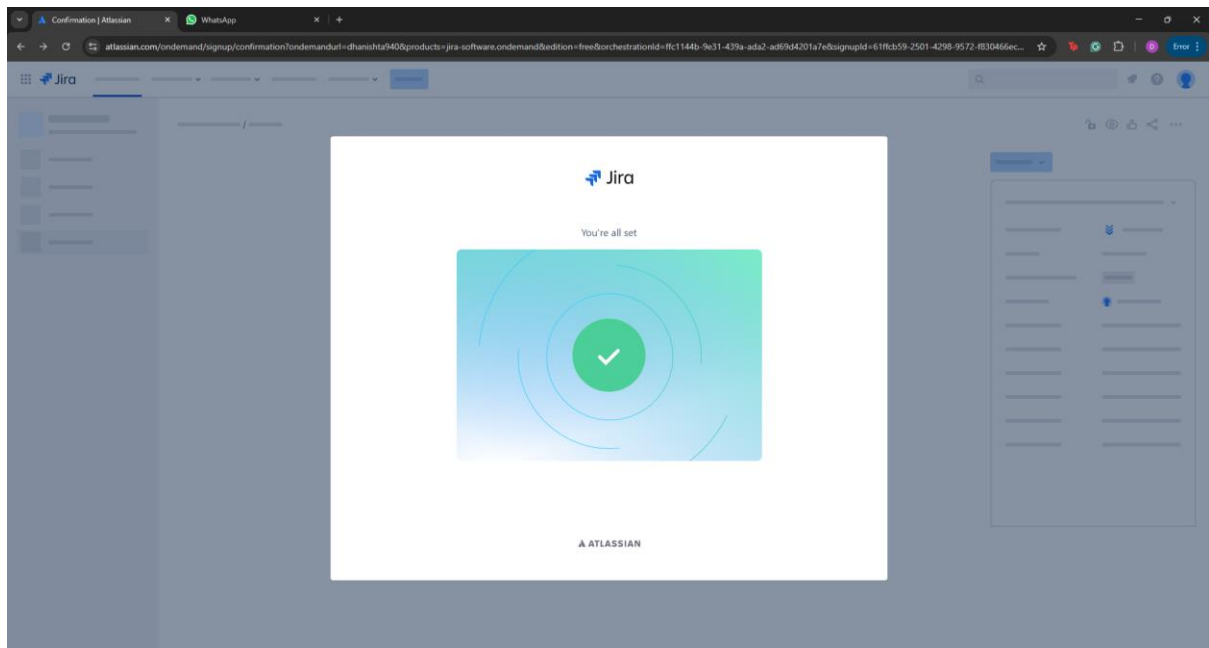
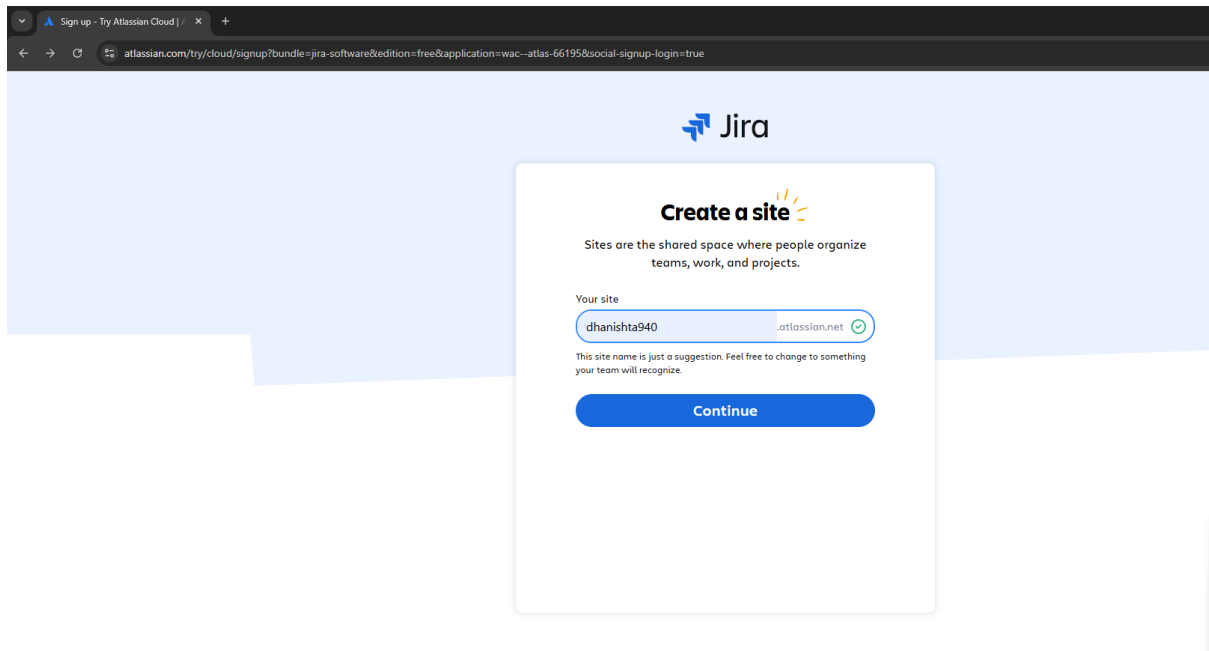
**Reporting and Analytics:** JIRA offers robust reporting and analytics capabilities, allowing teams to gain insights into their project progress, team performance, and other key metrics. Users can create custom dashboards, charts, and reports to monitor and analyse project data.

**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:**

- Open altassian.com, select JIRA and Login with the required Credentials





One moment, your site is starting up



Thanks for signing up! Our robots are working on your Atlassian Cloud site. This won't take more than a minute or two. You'll be taken there once it's ready.

### Select a template for your first project

If you're not sure what to choose, don't worry. You can quickly create a new project if this one's not right for you.



**KANBAN**  
A simple board to visualize your workflow

A flexible and efficient way to manage agile work, with a board and timeline.


**POPULAR**

Atlassian Software



**SCRUM**  
Deliver work in short, repeatable time blocks

Plan, prioritize, and schedule work using agile sprints with a backlog, board and timeline.

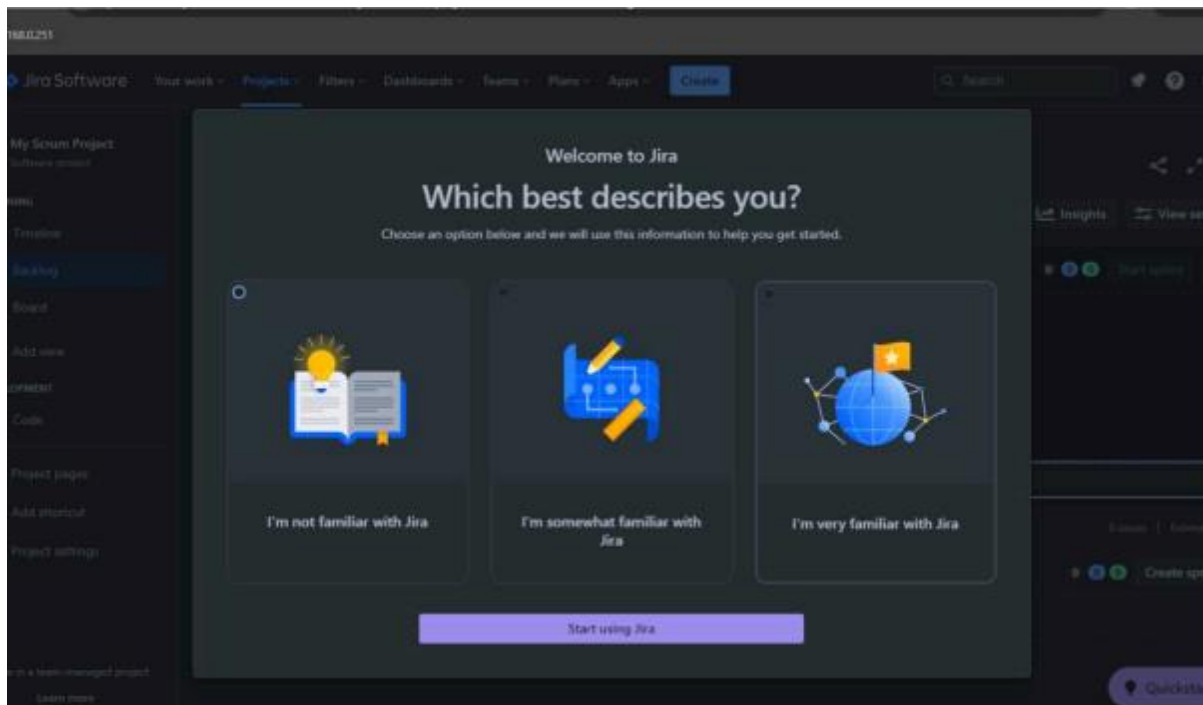


**BUSINESS**  
Collaboration for business teams

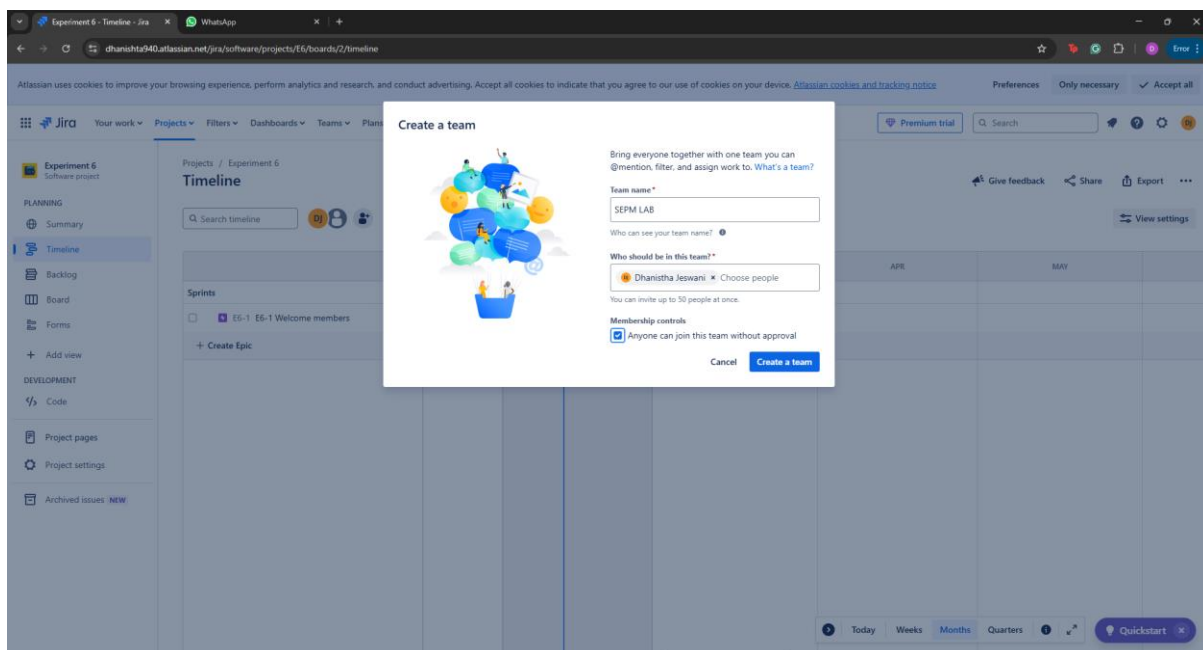
Designed to help your business team collaborate and connect, with list and calendar views, forms, and more.

Atlassian Work Management

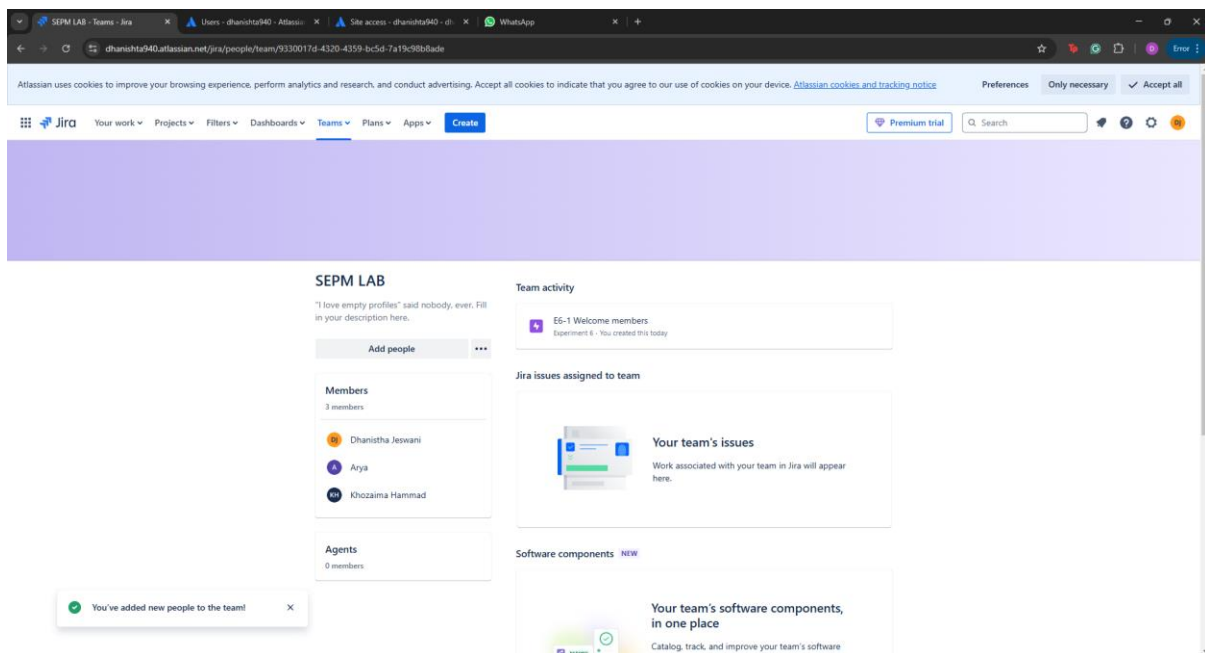




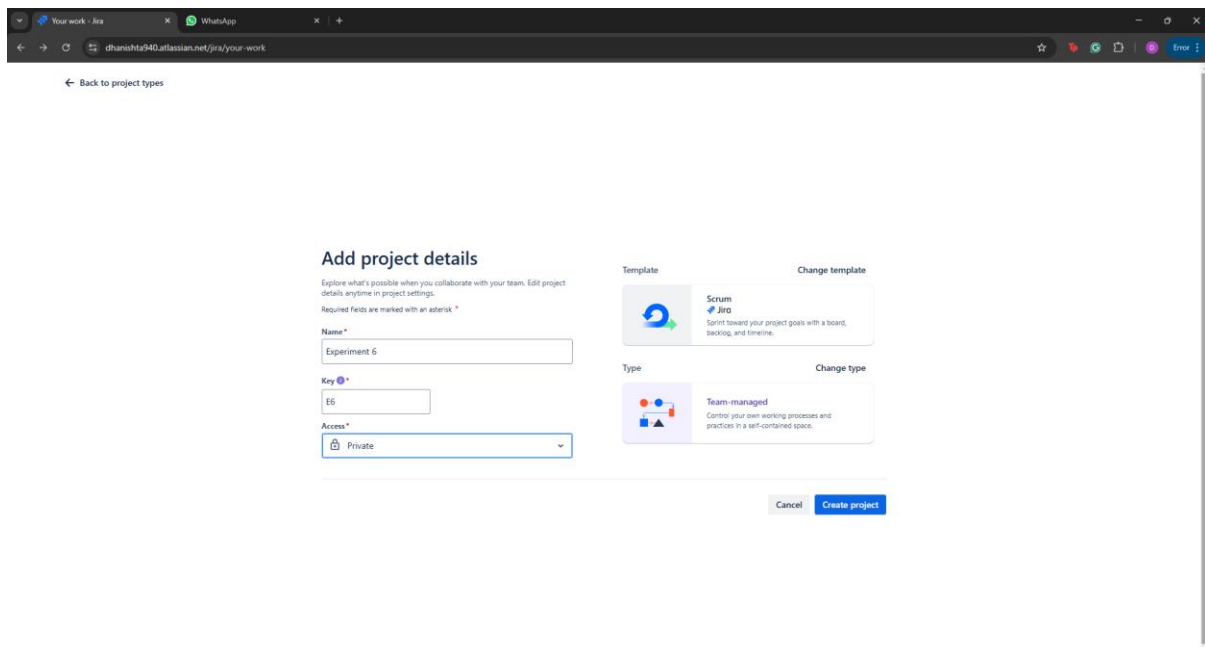
- Creating a team



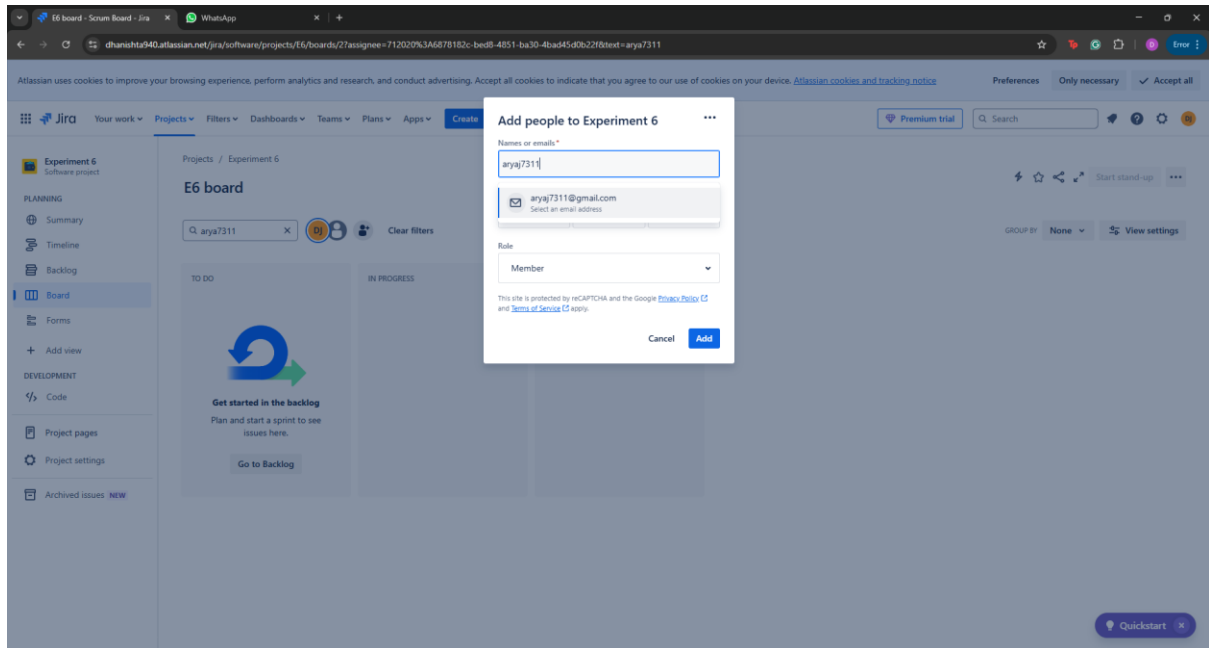
- Adding members to the team



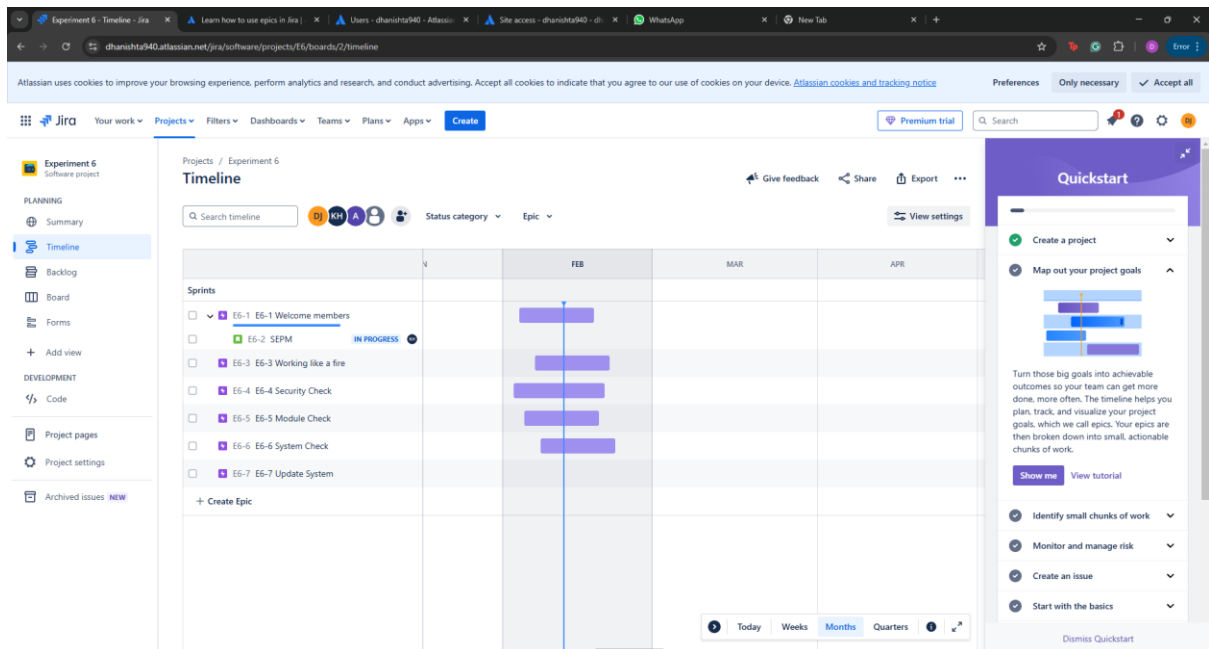
- Creating a project



- Adding people to the project



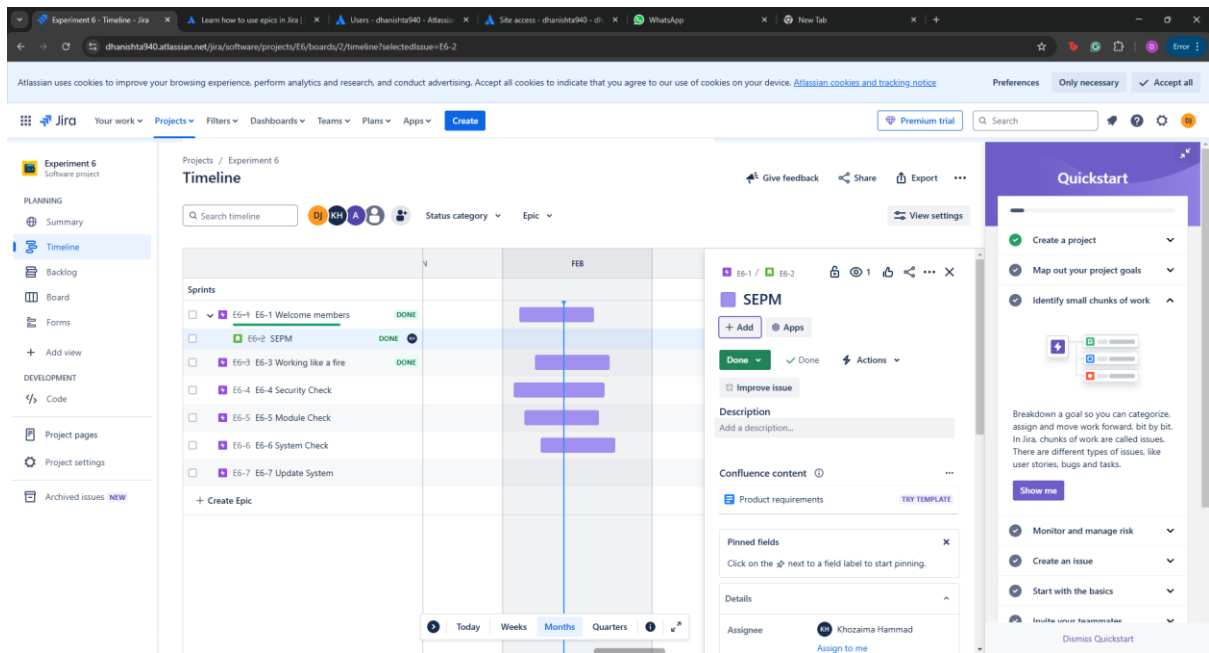
- Adding and assigning tasks



The screenshot shows the Jira interface for the 'Experiment 6' project. The left sidebar contains navigation links for Planning (Summary, Timeline, Backlog, Board, Forms), Development (Code), and Project pages (Project pages, Project settings, Archived issues). The main area displays the 'Timeline' view for the project. A search bar is at the top. Below it, a list of sprints is shown: E6-1 Welcome members, E6-2 SEPM (IN PROGRESS), E6-3 Working like a fire, E6-4 E6-4 Security Check, E6-5 E6-5 Module Check, E6-6 E6-6 System Check, and E6-7 E6-7 Update System. A detailed view of issue E6-3 is open on the right, showing its Confluence content (Project plan), Pinned fields, and Details (Assignee: Anya, Labels: Unassigned, Automatic, Team: Anya, Start date: Feb 20, 2025, Due date: Feb 20, 2025, Development: Create branch, Create commit, Reporter: Khozaima Hammad). A 'Quickstart' panel is visible on the far right.

- Task completion

The screenshot shows the Jira interface for the 'Experiment 6' project. The left sidebar contains navigation links for Planning (Summary, Timeline, Backlog, Board, Forms), Development (Code), and Project pages (Project pages, Project settings, Archived issues). The main area displays the 'Timeline' view for the project. A search bar is at the top. Below it, a list of sprints is shown: E6-1 Welcome members (DONE), E6-2 SEPM, E6-3 Working like a fire, E6-4 E6-4 Security Check, E6-5 E6-5 Module Check, E6-6 E6-6 System Check, and E6-7 E6-7 Update System. A detailed view of issue E6-1 is open on the right, showing its Confluence content (Project plan), Pinned fields, and Details (Assignee: Dhanistha Jeswani, Status: Done). A 'Quickstart' panel is visible on the far right.



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