Shri Vile Parle Kelavani Mandal's
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
(Autonomous College Affiliated to the University of Mumbai)
NAAC Accredited with "A" Grade (CGPA : 3.18)

Department of Computer Science and Engineering (Data Science)

Name: Rishabh Patil(60009200056/D12)

Subject: Applied Data Science (DJ19DSL703)

Experiment -3

(Agile Methodology)

Aim: Agile Tools (Jira) for Project Management

Theory:

Agile principles are a set of guiding values and practices that underpin the Agile methodology for software development and project management. These principles emphasize collaboration, adaptability, customer satisfaction, and iterative development.

Jira is a popular project management and issue tracking tool that is widely used for Agile software development and project management. It provides a flexible platform to plan, track, and manage Agile projects using various methodologies, including Scrum, Kanban, and others.

Creating an Agile Sprint:

1. Creating Agile Boards:
In Jira, you can create Agile boards to represent your Agile project. There are two primary types of boards: Scrum boards and Kanban boards. Scrum boards are used for projects following the Scrum methodology, while Kanban boards are for projects using Kanban.

2. Managing Backlogs:
Agile projects typically start with a backlog of work items, such as user stories, features, and tasks. In Jira, you can create and prioritize these backlog items, adding details like descriptions, acceptance criteria, and estimates.

3. Sprint Planning (for Scrum):
In Scrum, you plan work in fixed-duration iterations called sprints.
Jira allows you to select items from the backlog and add them to a sprint, defining the scope for that sprint. You can estimate and assign work to team members within the sprint.

4. Task Boards (Kanban) or Sprint Boards (Scrum):
Agile teams use boards to visualize and manage their work. On a Kanban board, you have columns representing the workflow stages (e.g., To Do, In Progress, Done). On a Scrum board, you have a sprint backlog and can see the progress of tasks within the sprint.

5. Visualizing Progress:
Jira boards provide real-time visibility into the progress of work items as they move through the workflow. You can see what's in progress, what's completed, and what's in the backlog.

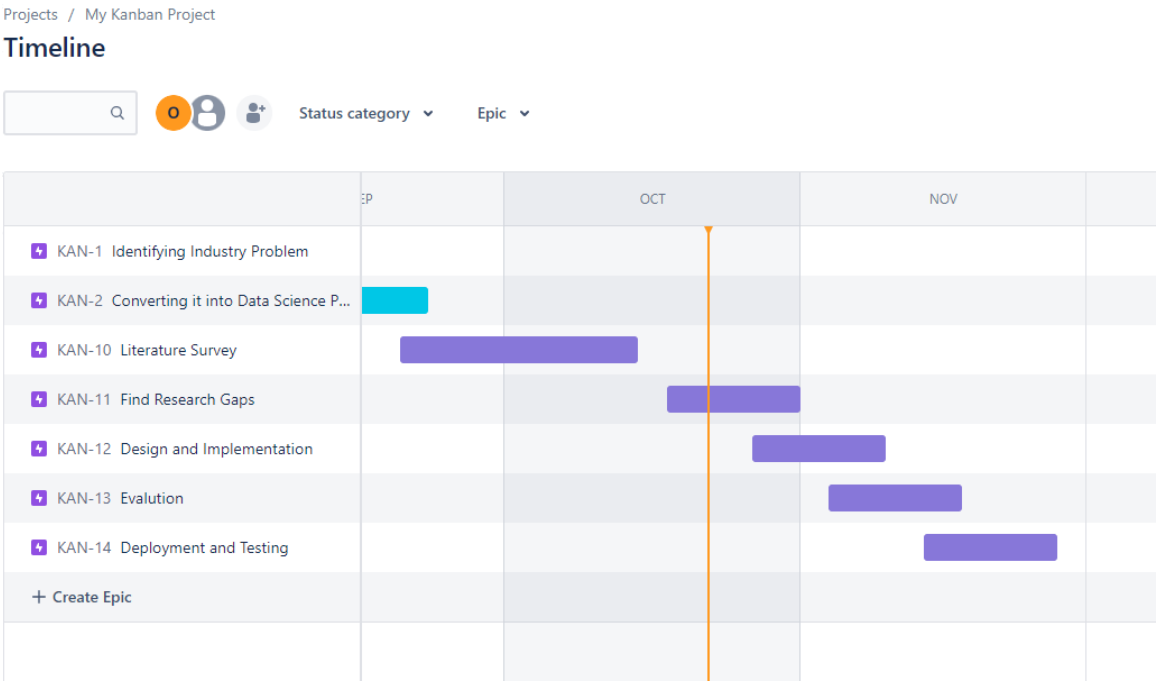
6. Daily Standup and Collaboration:
Teams often use Jira during daily standup meetings to update the status of tasks and identify blockers. Jira provides tools for communication and collaboration, including comments and mentions.

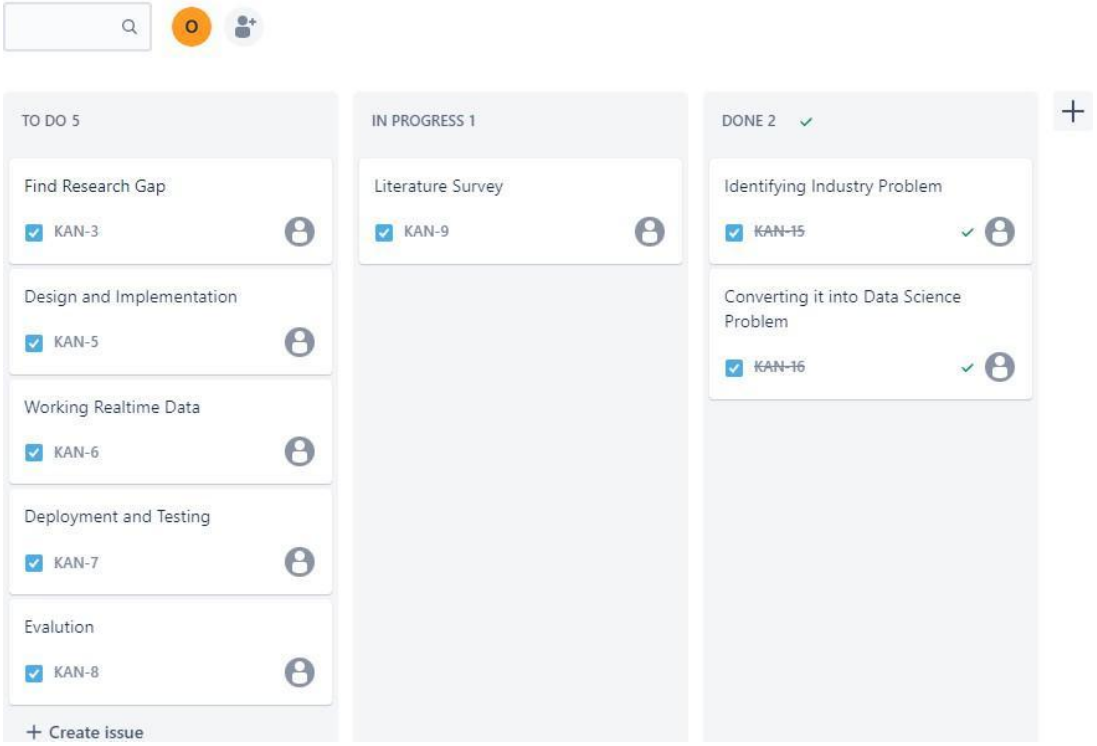
Creating Sprint in Jira step-by-step:

- Make a Jira project as Scrum type
- Go to the Backlog of your project
- Click the Create Sprint button at the top of the backlog
- Drag and drop issues from the backlog into your sprint
- Click Start sprint
- Update the Sprint name and add a Sprint goal if you want
- Select the Duration for the sprint
- Click Start

Lab Assignment:

1. Implement Sprint in Jira for a data science project which can be done using Agile methodology.



Projects / My Kanban Project

KAN board