

EXPERIMENT NO. 2

Aim: Application of Agile Process Model on the project(JIRA). Make Kanban Boards.

Theory:

Kanban is a common framework for agile and DevOps software development that provides transparency of work and team capacity. Kanban boards in Jira Software help teams visualize their workflow, limit work-in-progress, and maximize efficiency. The Jira Software Kanban board is designed to help teams continuously improve cycle time and increase efficiency.

Much more than a task board, the Jira kanban board functions to:

1. Promote transparency
2. Optimize workflow
3. Easily spot bottlenecks
4. Continuously improve Kanban boards give your team full visibility into what's next, so when one work item is completed, the team can quickly move on to the next.

Jira Software kanban boards are ideal for teams who practice agile methodologies; teams of all types can take advantage of the kanban board to facilitate smooth project management.

Here are a few ideas.

1. Software Development
2. Marketing
3. Business & HR Advantages of Kanban boards are:'

a) Better Visibility: Visualization is an important Kanban practice, and the most recognizable feature of the method is the Kanban board. Every project has a backlog of tasks to get through, and a series of process states that a task must pass through before it is delivered. Using the Kanban board, everyone can instantly see how tasks are moving through the process. The simplicity of its visual presentation enables you to easily spot bottlenecks while they are forming.

b) Improved Efficiency: Every product manager wishes they could get more done. Throwing extra resources at a problem is a possible solution when there's some room in the budget, but what if you could do more with what you already have? The most obvious benefit of using Kanban is improved flow efficiency that happens shortly after the method is implemented into your organization.

c) Increased Productivity: Improved efficiency naturally leads to the next Kanban benefit, which is increased productivity. Kanban benefits your productivity by shifting the focus from starting work to finishing work.

d) Preventing Team Overburden: Traditional management methods rely on planning upfront and pushing the work on to your team. This results in teams struggling with more work than they

have the bandwidth for. Kanban suggests the implementation of pull system – the team pulls tasks into the workflow only when they have the capacity to do so.

e) Reduced Waste: Eliminating or reducing waste is a cornerstone of lean management. It was an integral feature of the Toyota Production System, the ancestor of modern kanban. Waste is defined as any action that uses resources without adding value. Value refers to something that the customer is willing to pay for. Many activities would not be classed as “value-adding” according to these criteria but are nevertheless essential to delivering quality products. The area to target is a nonessential waste.

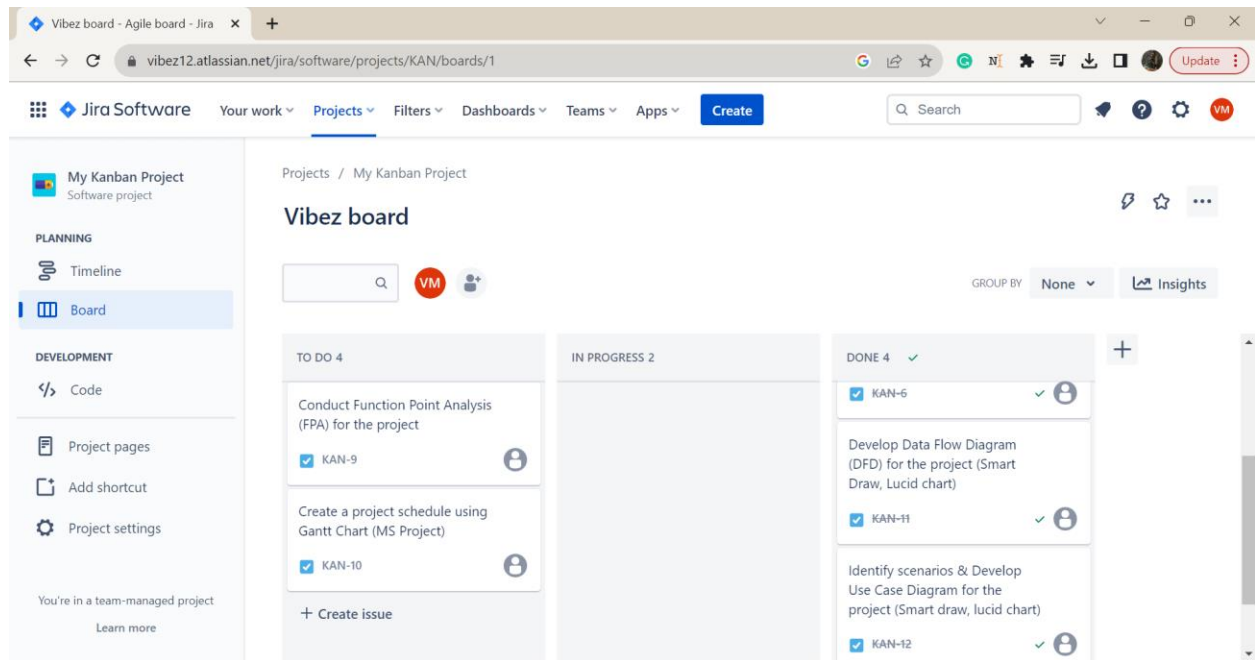
f) Flexibility: For many companies, the strive for business agility is driven by the need for flexibility. Especially for early-stage companies, the freedom to respond swiftly and decisively to your customers’ needs and competitors’ actions is essential to successful growth. With no prescribed phase durations, features are released as soon as they are completed. By choosing directions with a Kanban roadmap rather than relying on a rigid general project plan, product managers are free to reassess immediate priorities based on changes in the market. The Kanban Method suggests an approach of backlog management that helps teams become more self-managed while bringing transparency and consistency to the decision-making process.

OUTPUT:

The screenshot displays the Jira Software interface for a Kanban board titled "Vibez board" under the project "My Kanban Project". The interface is organized into three main columns: "TO DO 4", "IN PROGRESS 2", and "DONE 4".

- TO DO 4:** Contains two tasks:
 - "Develop a Risk Mitigation, Monitoring and Management Plan (RMMM) for the project" (KAN-7)
 - "Application of COCOMO model for cost estimation of the project" (KAN-8)
- IN PROGRESS 2:** Contains two tasks:
 - "Application of Agile Process Model on the project (JIRA)" (KAN-5)
 - "Develop Activity & State Diagram for the project (Smart Draw, Lucid chart)" (KAN-14)
- DONE 4:** Contains two tasks:
 - "Write a detailed Problem Statement for any case study. Justify which process model would be best suited to apply on it" (KAN-4)
 - "Develop SRS document in IEEE format for the project" (KAN-6)

The left sidebar shows navigation options for "My Kanban Project", including "PLANNING" (Timeline, Board), "DEVELOPMENT" (Code), "Project pages", "Add shortcut", and "Project settings". The top navigation bar includes "Jira Software", "Your work", "Projects", "Filters", "Dashboards", "Teams", "Apps", and a "Create" button. The URL bar shows the Jira instance address: `vibez12.atlassian.net/jira/software/projects/KAN/boards/1`.



Conclusion : -

Hence, we implemented the application of Agile Process Model on the project (JIRA) using Kanban Boards.