**EXPERIMENT NO. 2**

**Aim : -** Application of Agile Process Model on the project (JIRA).Make Kanban board using jira software.

**Theory : -**

The Agile process model has gained immense popularity in the field of project management due to its flexibility, adaptability, and iterative approach to development. JIRA, a widely used project management tool, offers robust support for Agile methodologies. In this theory, we will explore the application of the Agile process model using JIRA and demonstrate how to create a Kanban board within the software.

Agile Process Model Overview:

The Agile process model is a collaborative and customer-centric approach to project management. It emphasizes continuous improvement, flexibility, and delivering value to stakeholders in incremental iterations. Agile is particularly well-suited for projects with changing requirements and a need for rapid adaptation.

Application of Agile in JIRA:

JIRA is a versatile project management tool that can accommodate various Agile frameworks, including Scrum, Kanban, and hybrid models. To apply Agile principles using JIRA:

Project Setup: Start by creating a new project in JIRA and choose the Agile template that aligns with your project's needs, such as Scrum or Kanban.

User Stories and Backlog: In Agile, requirements are often represented as user stories. Use JIRA to create a backlog of user stories, each representing a feature or task. Prioritize them based on business value and customer needs.

Sprint or Workflow Configuration: For Scrum projects, configure sprints and set sprint goals. In Kanban, define the workflow stages that tasks will progress through. Customize these to match your team's workflow.

Task Management: Create tasks or issues for each user story or feature. Assign them to team members and set due dates. JIRA allows for easy tracking of progress and reallocation of tasks as needed.

Burndown Charts (Scrum) or Cumulative Flow Diagrams (Kanban): Utilize JIRA's reporting capabilities to track project progress. Burndown charts are valuable for Scrum projects, while Cumulative Flow Diagrams provide insights for Kanban teams.

Creating a Kanban Board in JIRA:

A Kanban board in JIRA is a visual representation of your workflow stages and tasks. Here's how to create one:

Board Creation: In JIRA, go to your project and select "Boards" from the left-hand menu. Click "Create Board" and choose "Kanban Board."

Configure Board: Name your board and select the project and filter that will be associated with it. Define the columns that represent your workflow stages (e.g., "To Do," "In Progress," "Done").

Card Configuration: Customize the cards that represent tasks or issues. You can include details like assignees, due dates, and priority.

Swimlanes (Optional): To further organize tasks, you can create swimlanes based on criteria such as assignees, epics, or labels.

Quick Filters: Set up quick filters to easily sort and view tasks based on specific criteria.

Automation Rules: JIRA allows you to automate certain actions, such as moving tasks to specific columns when criteria are met.

**Conclusion : -**

Applying the Agile process model within JIRA provides a powerful framework for project management. Whether you're using Scrum or Kanban, JIRA's flexibility, reporting, and customization options can help teams stay organized, collaborate effectively, and continuously deliver value to stakeholders. Creating a Kanban board within JIRA is a practical way to visualize and manage work in a Kanban system, promoting transparency and efficiency in project management.