



TSU en Tecnologías de la Información Área Desarrollo de Software Multiplataforma

Nombre:

García Arreola Howard Isaí

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Profesor:

Ray Brunett Parra Galaviz

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Agile methodology selection: Kanban

With Kanban, teams use online Kanban board tools to represent where certain tasks are in the development process. Tasks are represented by cards on a board, and stages are represented in columns. As team members work on tasks, they move cards from the backlog column to the column that represents the stage the task is in. This method is a good way for teams to identify roadblocks and to visualize the amount of work that's getting done.

When to use Kanban?

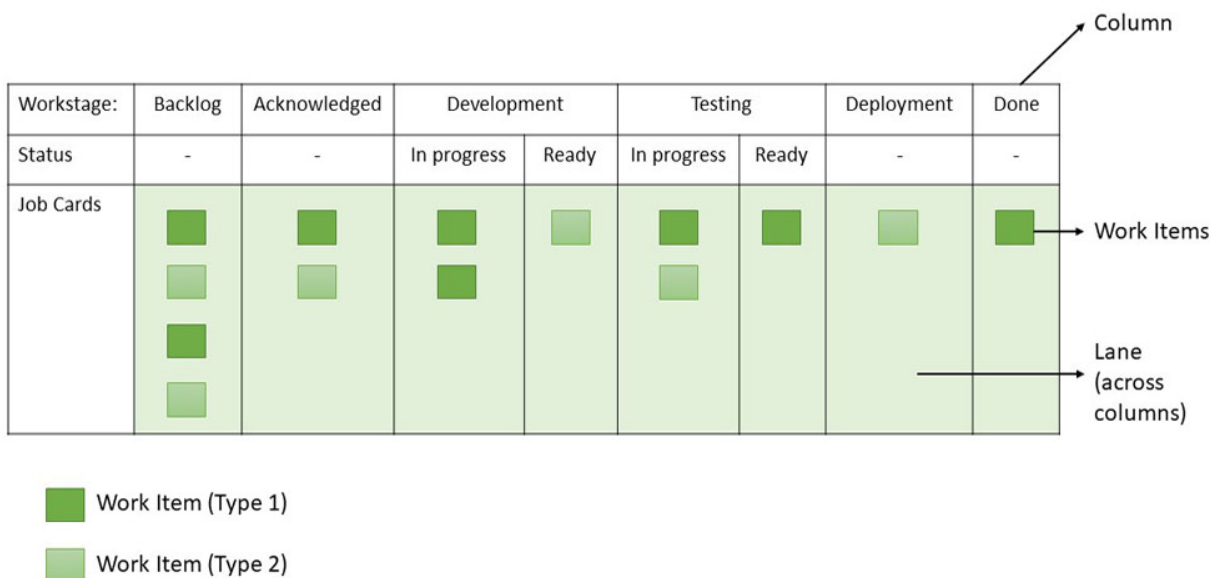
- Frequent changing requirements which need to be delivered faster.
- Frequent releases are there (Periodically).
- When incoming work is continuous.
- Where task priority needs to be decided dynamically based on task nature and type.
- The best suit is for Ticket or Production support projects.

Board

Kanban's board can be explained and should generally follow these practices:

1. **Visualize Workflow:** The Kanban board is divided into columns, each representing a stage in the workflow. Tasks are represented by cards that move across the board as they progress through the stages.
2. **Limit Work in Progress (WIP):** Set limits on the number of tasks that can be in each stage at any given time. This helps prevent overloading team members and ensures a smooth flow of work.
3. **Manage Flow:** Continuously monitor the flow of tasks through the board. Identify bottlenecks and areas where tasks are getting stuck, and make adjustments to improve efficiency.
4. **Make Process Policies Explicit:** Clearly define and communicate the rules and guidelines for how tasks move through the board. This ensures everyone understands the process and follows it consistently.

5. **Implement Feedback Loops:** Regularly review the board and the workflow with the team. Hold meetings to discuss progress, identify issues, and make improvements.
6. **Improve Collaboratively, Evolve Experimentally:** Encourage team members to suggest improvements and experiment with changes to the workflow. Continuously seek ways to optimize the process and enhance productivity.



Principles of Kanban

- **Start with the existing process:** It is a change management method that starts with the existing process. Changes are done in the system in incremental and evolutionary ways. Unlike Scrum, there's no specific process or roles defined in Kanban.
- **Agree to continue evolutionary and incremental changes:** After starting with the existing process, the team must agree on continuous, incremental, and evolutionary changes. The changes should be small and incremental.
- **Admire current roles, processes, responsibilities & titles:** Though Kanban suggests continuous incremental changes in the process, it respects current roles,

responsibilities, and job titles. This helps the team to gain confidence as they get started with Kanban.

- **Leadership at all levels:** Kanban does not expect leadership from a specific set, rather the actions of **leadership at all levels in the organization**, are very much encouraged.

Why did I pick Kanban

I chose the Kanban methodology due to its visual board-like function, which aligns perfectly with my learning style. As a visual learner, I find it easier to comprehend and manage tasks using a board structure. Additionally, Kanban promotes a collaborative workflow rather than a hierarchical leadership structure, fostering teamwork and shared responsibility.

However, one potential drawback is the level of maturity required from the team. If the team lacks the maturity to self-manage tasks and complete them on time, the entire project could face significant challenges. Effective implementation of Kanban relies heavily on the team's ability to handle tasks independently and maintain a steady workflow.

References:

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