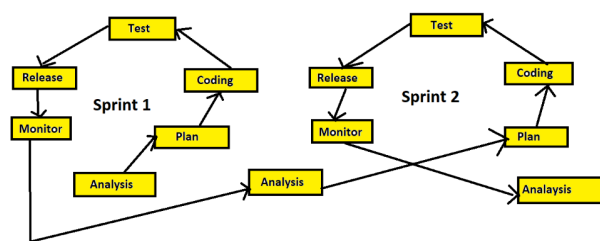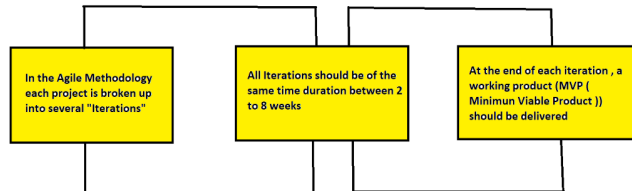# Agile Methodology

Wednesday, January 8, 2025   2:17 PM

Agile Methodology :

Agile Methodology is a modern, iterative approach to software development and project management.

In the Agile Methodology each project is broken up into several "Iterations"

All Iterations should be of the same time duration between 2 to 8 weeks

At the end of each iteration , a working product (MVP (Minimun Viable Product)) should be delivered

Sprint 1 — Test, Release, Coding, Monitor, Plan, Analysis

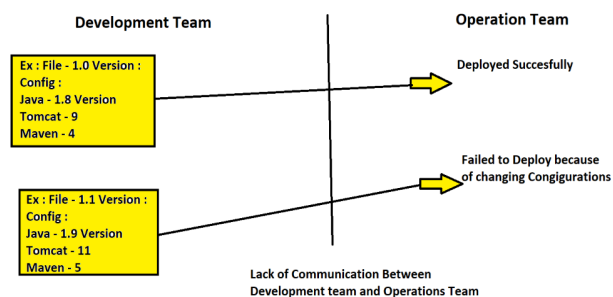Sprint 2 — Test, Release, Coding, Monitor, Plan, Analaysis

Benefits of Agile Methodology :

- **Flexibility:** Easily adapts to changing project needs.
- **Customer-Centric:** Continuous feedback ensures alignment with customer expectations.
- **Faster Time-to-Market:** Frequent releases deliver value sooner.
- **Improved Collaboration:** Promotes teamwork and communication.
- **Higher Quality:** Regular testing and retrospectives improve software quality.

Disadvantages :

- Platform Dependency
- Environment Dependency
- Lack of Communication between Development team and Operations team

Development Team

Operation Team

Ex : File - 1.0 Version :
Config :
Java - 1.8 Version
Tomcat - 9
Maven - 4

Deployed Succesfully

Ex : File - 1.1 Version :
Config :
Java - 1.9 Version
Tomcat - 11
Maven - 5

Failed to Deploy because of changing Congigurations

Lack of Communication Between Development team and Operations Team

When to Use Agile Methodology :

- Projects with dynamic, evolving requirements.

- Teams seeking to deliver incremental value quickly.
- Environments that encourage collaboration and frequent feedback.
- Complex projects that benefit from iterative planning and development.

In order to overcome the these issues or limitations we have next model called **DevOps**.