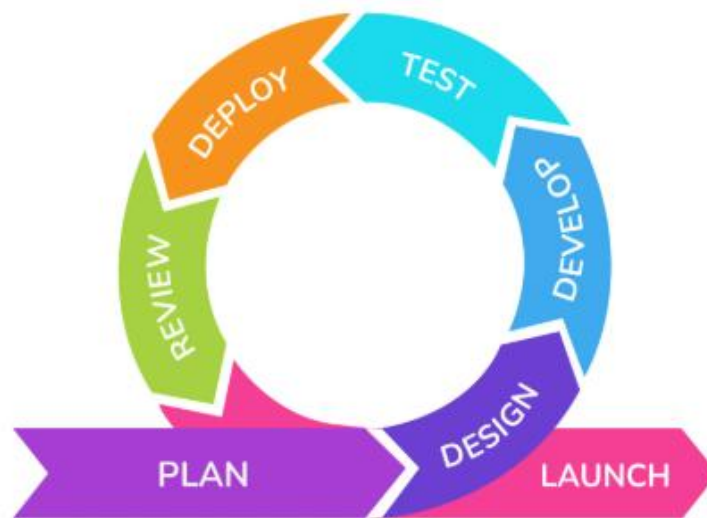


# Agile and Scrum

## Introduction to Agile

Agile is a project management and software development methodology that focuses on iterative development, collaboration, customer feedback, and small, rapid releases. Agile encourages adaptive planning, early delivery, and continuous improvement, all while promoting flexibility in responding to change.



## Principles of Agile

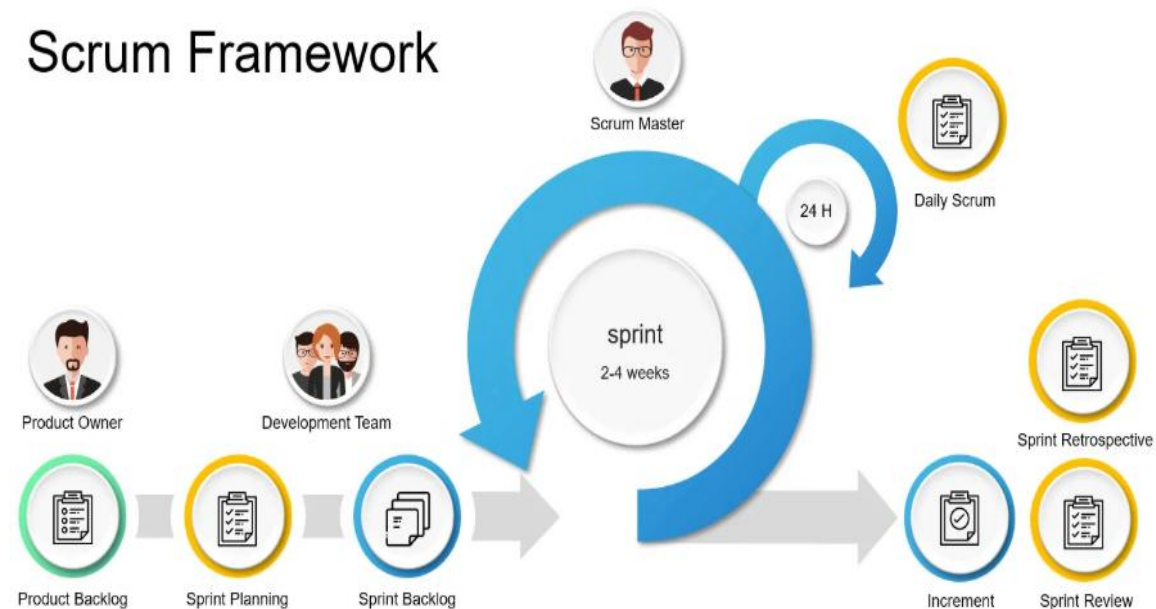
1. Customer satisfaction through early and continuous delivery of valuable software.
2. Welcoming changing requirements, even late in development.
3. Frequent delivery of working software.
4. Close collaboration between business people and developers.
5. Motivated individuals with the support and trust needed to get the job done.
6. Face-to-face communication as the most effective method of conveying information.
7. Working software is the primary measure of progress.
8. Continuous attention to technical excellence and good design.
9. Simplicity—the art of maximizing the amount of work not done—is

essential.

10. Regular reflection and adjustments for better effectiveness.

## Scrum Framework

Scrum is one of the most popular frameworks used within Agile methodology. It is a lightweight framework designed to help teams deliver complex projects by breaking them into smaller, manageable increments called Sprints. A Sprint usually lasts 2-4 weeks and results in a potentially shippable product increment.



## Scrum Roles

### Product Owner

The Product Owner is responsible for defining the features of the product and ensuring that the development team delivers value to the business.

**The key responsibilities of the Product Owner include:**

- Creating and managing the Product Backlog.
- Defining product features and priorities.
- Ensuring clarity in requirements for the development team.

- Making decisions on scope and release dates.
- Representing the voice of the customer or stakeholders.

## Scrum Master

The Scrum Master acts as a facilitator for the Scrum team. Their role is to ensure that the Scrum framework is followed effectively and to remove any obstacles that may hinder the team's progress.

### The Scrum Master's responsibilities include:

- Coaching the team on Agile and Scrum practices.
- Facilitating Scrum ceremonies such as Daily Stand-ups, Sprint Planning, and Retrospectives.
- Helping to remove impediments that block progress.
- Protecting the team from external distractions.
- Promoting a culture of collaboration and continuous improvement.

