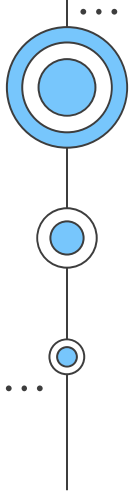


# Professional Software Testing & Quality Assurance

Instructor  
**Parvez Hossain**



# SCRUM

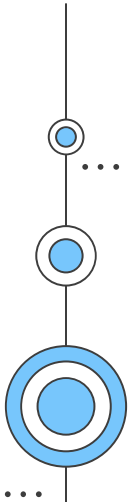
Scrum is a popular framework for agile project management that is commonly used in software development and other industries to manage complex and adaptive work. It is designed to facilitate collaboration, adaptability, and iterative progress in projects, especially those with rapidly changing requirements.

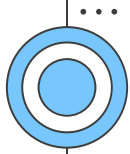
Scrum is centered around the concept of iterative and incremental development, where work is divided into smaller, manageable units called "sprints." A sprint is a time-boxed period (usually 2-4 weeks) during which a specific set of tasks or user stories are worked on by the development team. At the end of each sprint, a potentially shippable product increment is delivered, allowing stakeholders to see and provide feedback on the progress.

Key components of the Scrum framework:

- **Roles:** Product Owner, Scrum Master, Development Team
- **Artifacts:** Product Backlog, Sprint Backlog, Increment
- **Events:** Sprint Planning, Daily Scrum (Standup), Sprint Review, Sprint Retrospective

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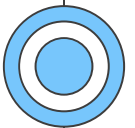
# Using SCRUM in Jira

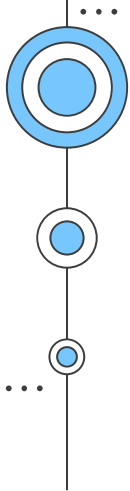
Scrum in Jira involves setting up your projects, creating and managing user stories and tasks, and tracking progress using Scrum-specific features.

- **Create a Scrum Project**
- **Configure Project Settings**
- **Backlog Management**
- **Create Sprint**
- **Sprint Planning**
- **Sprint Execution**
- **Daily Stand-up**
- **Review & Report**

In Jira, "Sprint" refers to a time-bound period during which a project team works on a set of tasks or user stories.

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# Difference Between Scrum & Kanban

Scrum and Kanban are **two popular Agile methodologies** used for managing and organizing work in software development and other industries. While they both **share the Agile principles of flexibility, continuous improvement, and collaboration**, they have some key differences in terms of their processes and practices.

## 1. Framework vs Methodology:

**Scrum:** Scrum is a **well-defined framework** with specific roles, events and artifacts.

**Kanban:** Kanban is a **methodology or approach** rather than a static framework. It focuses on **visualizing and optimizing workflows** using a kanban board.

## 2. Roles and Structure:

**Scrum:** **Scrum has defined roles** such as Scrum Master (facilitates the process), Product Owner (represents the customer or business), and Development Team (carries out the work). These roles have specific responsibilities and interactions.

**Kanban:** **Kanban doesn't define specific roles.** It usually relies on the existing team structure and doesn't introduce new roles like Scrum does.

## 3. Iteration vs Continuous Flow:

**Scrum:** **Scrum operates in fixed time iterations called Sprints**, typically ranging from 1 to 4 weeks.

**Kanban:** **Kanban emphasizes a continuous flow of work without fixed iterations.** Work items move through the workflow stages, leading to a more consistent and incremental delivery.



# Thanks!

Do you have any questions?

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