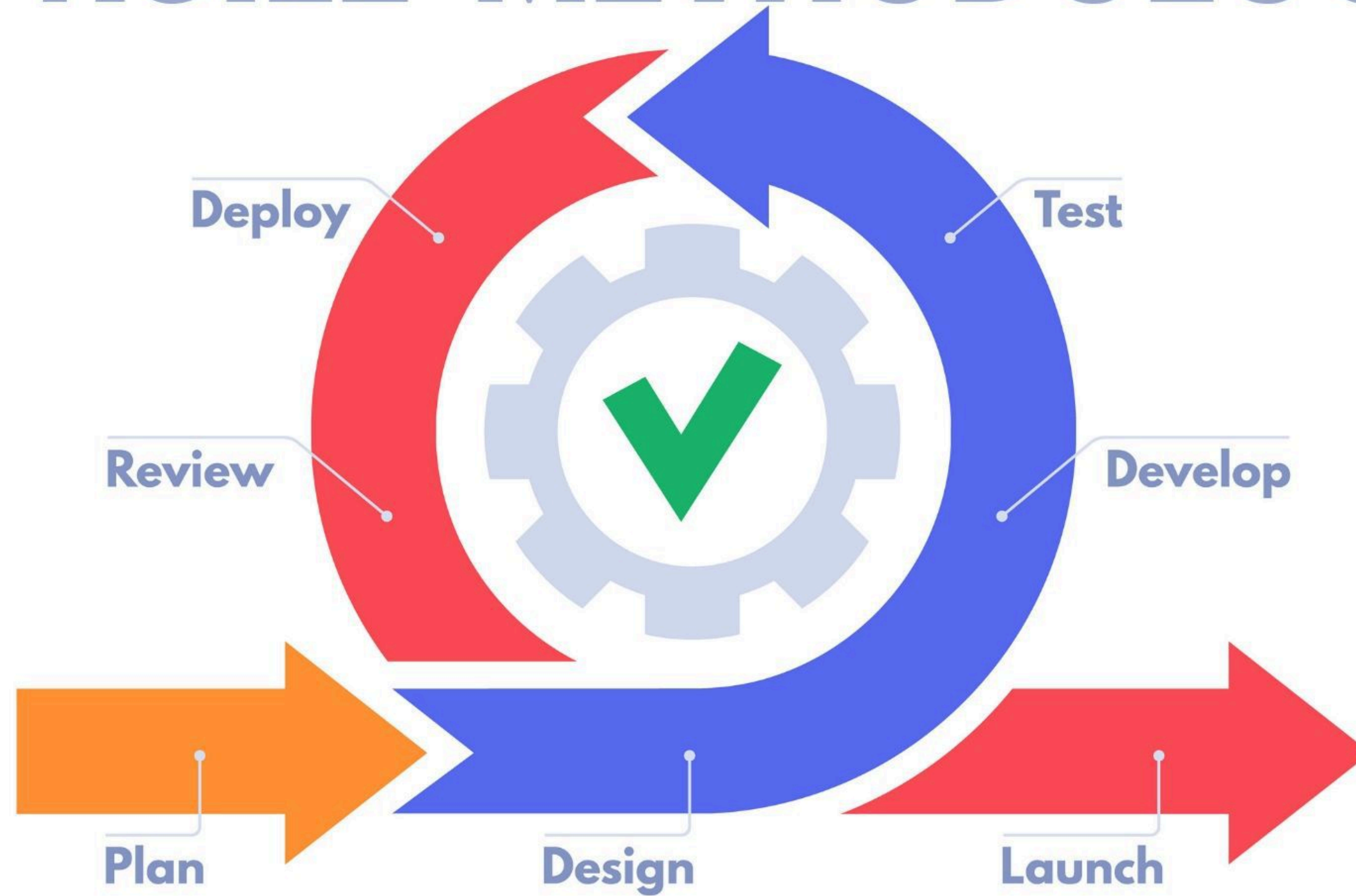# AGILE METHODOLOGY
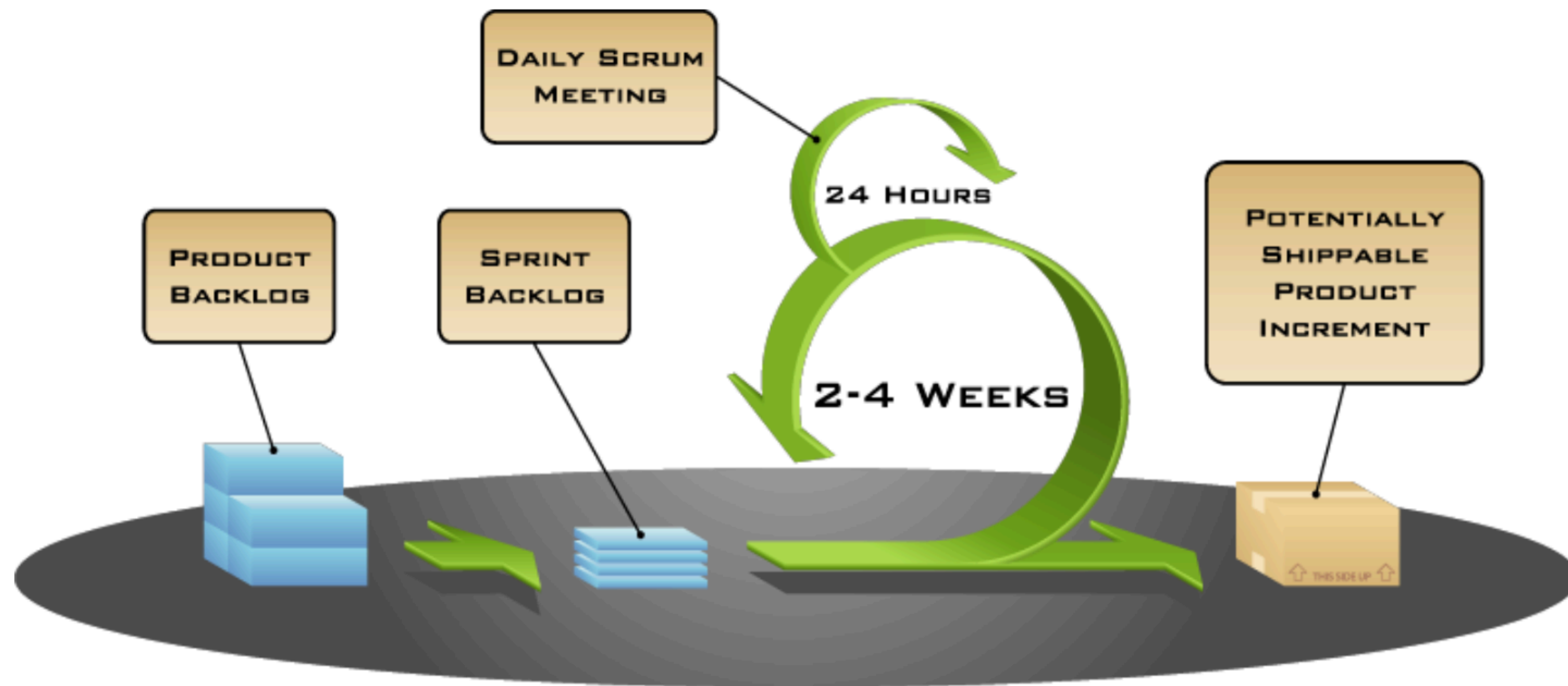
Scrum

(Only a brief intro)

Elements of Scrum

Products:
   Product Backlog
   Sprint Backlog

Process:
   Sprint Planning Meeting
   Daily Scrum Meeting
   Sprint Retrospective
   Sprint Review Meeting

Backlogs

The **product backlog** is all the **user stories** for the product.

These are some backlog tasks for a web app.

SCRUM-1 As a new user, I want to create a new account — TO DO

SCRUM-2 As a user, I want to change my password. — TO DO

SCRUM-3 As a user, I want to delete my account. — TO DO

SCRUM-4 As a user, I want to change my email address. — TO DO

SCRUM-5 As a system administrator, I want to manually delete a spam... — TO DO

SCRUM-6 As a user, I want to change my user icon. — TO DO

SCRUM-7 As a manager, I want to know how many user accounts th... — TO DO

Sprint backlog

The **sprint backlog** is all the features that will be worked on for that sprint. These should be broken down into discrete tasks:

Fine-grained

Estimated

Assigned to individual team members

Acceptance criteria should be defined
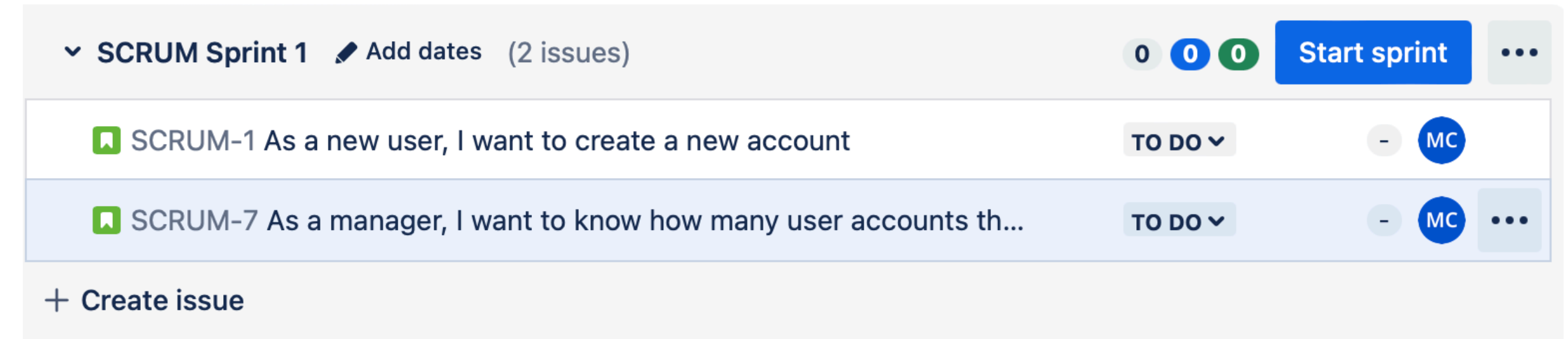
Roles

- **Product owner**: prioritizes, refines backlog items ("grooming the backlog"). Happens anytime.
- **Developers**: choose which tasks to commit to each sprint
  - Should ask questions of product owner
    - Can we do these two items out of order?
    - What if we change this task?
    - When you say X, do you mean...?
- **Scrum Master**: helps team follow the process
  - "Let's take that offline"

Sprint Planning (entire team)

- Why is this sprint valuable? Consider a theme for the sprint.
- What can be done this sprint?
  - Select items from the backlog
- How will the chosen work get done?
  - Decompose backlog items into tasks
  - Developers choose tasks
  - Product owner does not dictate how this is done

During a sprint

- No changes are made that would endanger the Sprint Goal;

- Quality does not decrease;

- The Product Backlog is refined as needed; and,

- Scope may be clarified and renegotiated with the Product Owner as more is learned.

https://scrumguides.org/docs/scrumguide/v2020/2020-Scrum-Guide-US.pdf

More Meetings

Daily Scrum Meeting ("standup")
  Quick Meeting to touch base on :
    What have I done? What am I doing next? What am I stuck on/need help?
    Do not spend more than 15 minutes on this meeting

Sprint Review Meeting
  Review Product; adjust backlog. Which user stories were completed?

Sprint Retrospective
  Review sprint process; make changes for next time

Form teams of about 5.

- Elect one product owner, who knows the story of Goldilocks
- Elect one scrum master

For the rest of today

- Two sprints. Each includes:
  - Sprint planning (5 mins)
  - Two work days (1-minute standup at start of second day; 5 minutes of work per day)
  - Sprint review: 4 mins
  - Retrospective: 5 mins (only for first sprint)