

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	5 November 2022
Team ID	PNT2022TMID33244
Project Name	Project – Smart waste management system for metropolitan cities.
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can download the application or can have a web account/ application.	4	High	Revathy S
Sprint-1	Registration	USN-2	As a user, I can register myself through application or website using login credentials.	3	High	Ranjani M
Sprint-1	Registration	USN-3	As a user, I will receive confirmation mail to confirm the user and his details.	4	High	Revathy S
Sprint-2	Login	USN-4	As a user, I can login into the application by entering user email and password.	5	High	Renuka P
Sprint-2	View	USN-5	As a user, I can view the garbage level near their area and report to clear the waste if not taken.	4	Medium	Renuka P
Sprint-2	View	USN-6	As a user, I can view garbage truck activities and can access customer care services.	3	Low	Shalini S
Sprint-3	Actions	USN-7	As a user, I have the right to report the head office if service has not been properly provided.	5	High	Shalini S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Actions	USN-8	As a user, I can track the truck and garbage service schemes.	4	High	Ranjani M
Sprint-3	Management	USN-9	As an admin, management process is mine. I can provide user services and monitor garbage and truck activities based on schedule.	5	High	Revathy S
Sprint-4	Testing	USN-10	As a tester, I can check whether the sensors are working properly.	4	Medium	Renuka P
Sprint-4	Testing	USN-11	As a tester, I check the processing systems like sensors, GPS, etc.,	4	Medium	Shalini S
Sprint-4	Testing	USN-12	As a tester, I can monitor the activities are happening according to schedule.	5	High	Revathy S

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022		

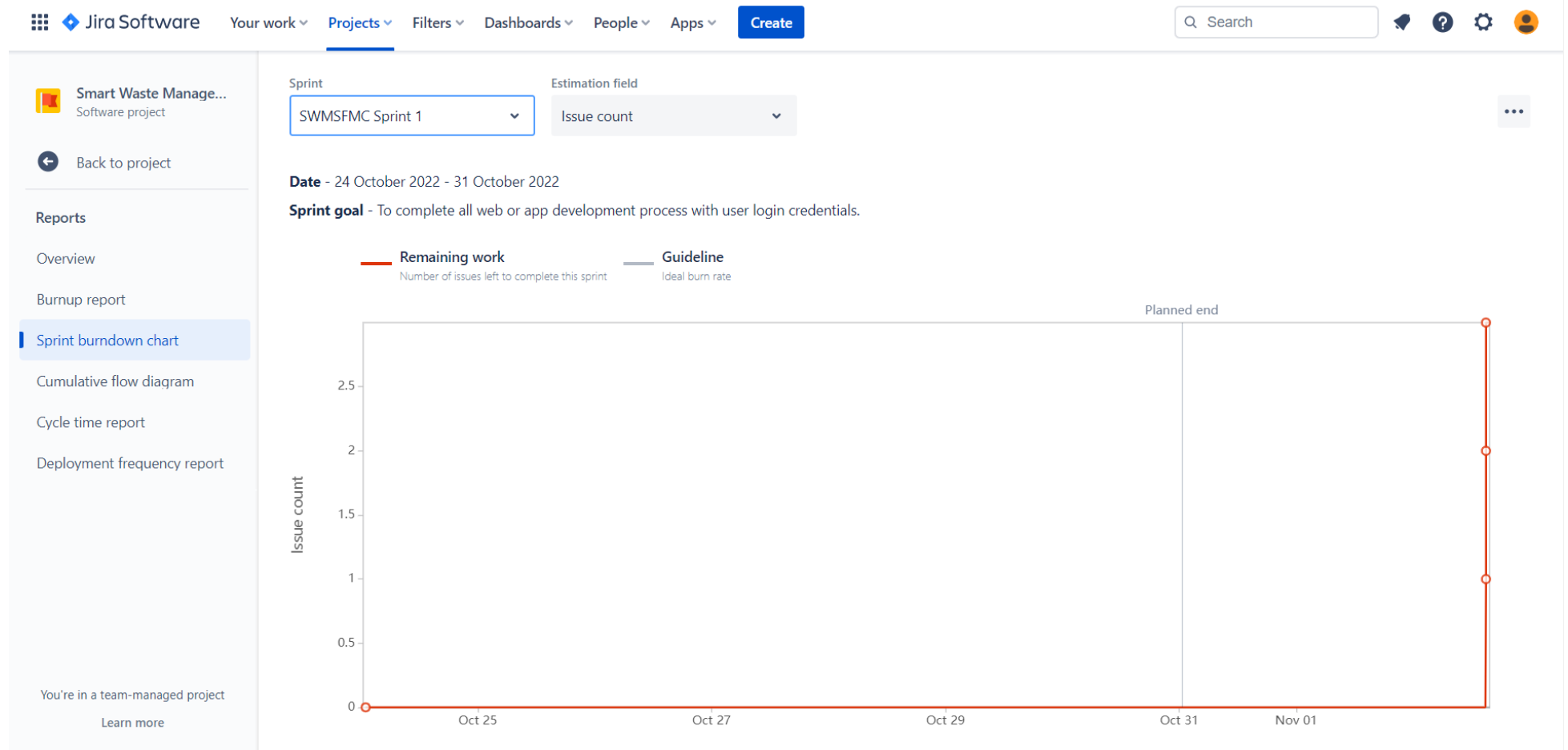
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{\textit{sprint duration}}{\textit{velocity}} = \frac{20}{10} = 2$$

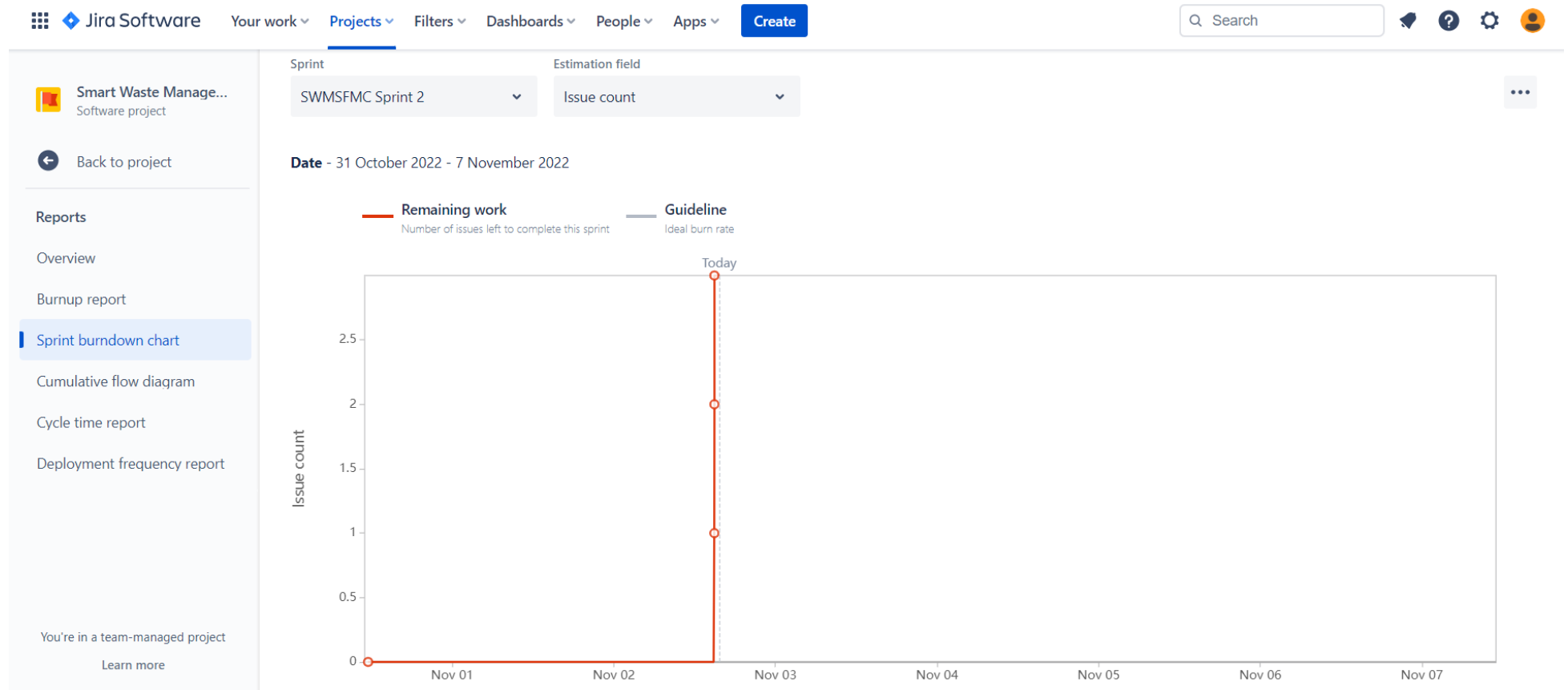
Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

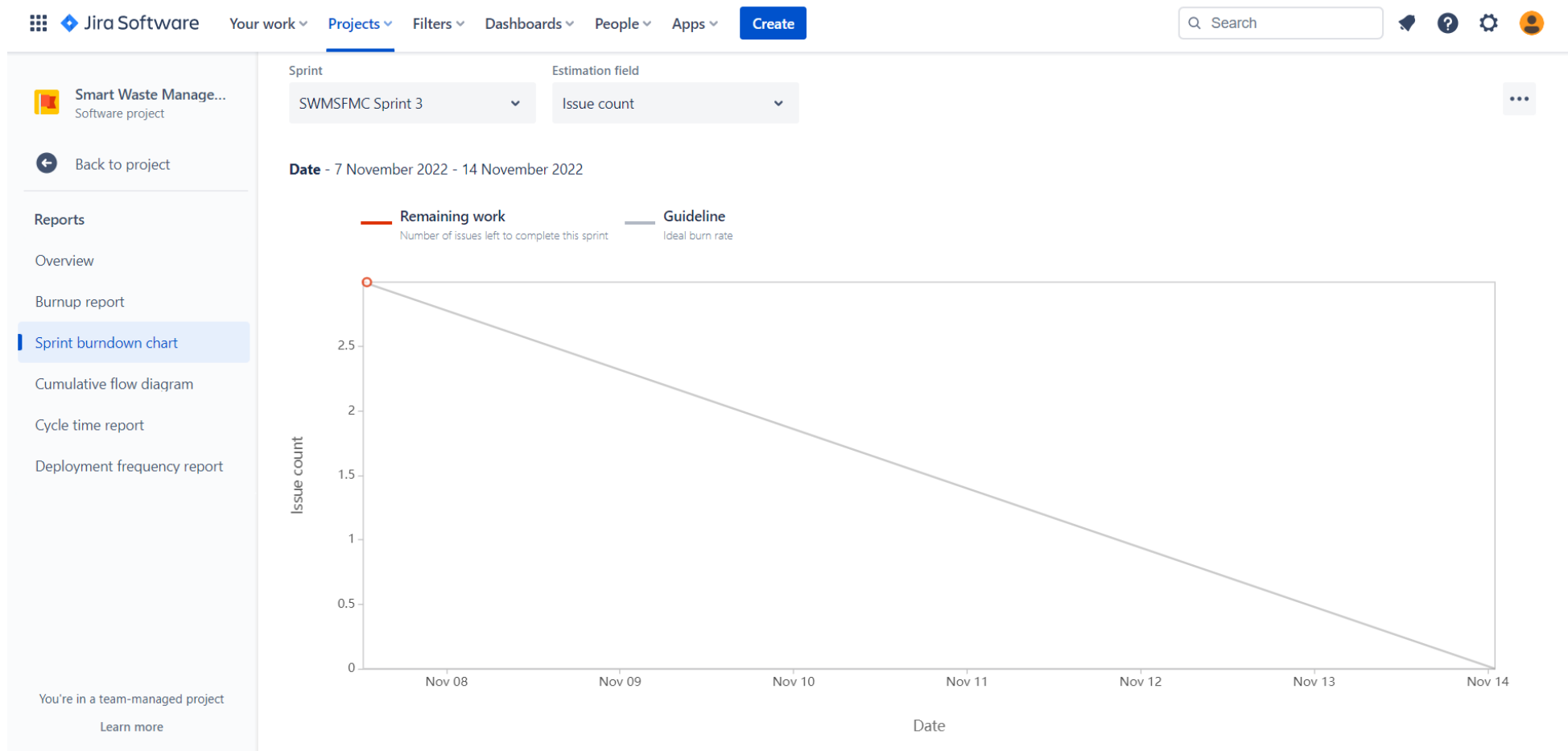
Sprint-1:



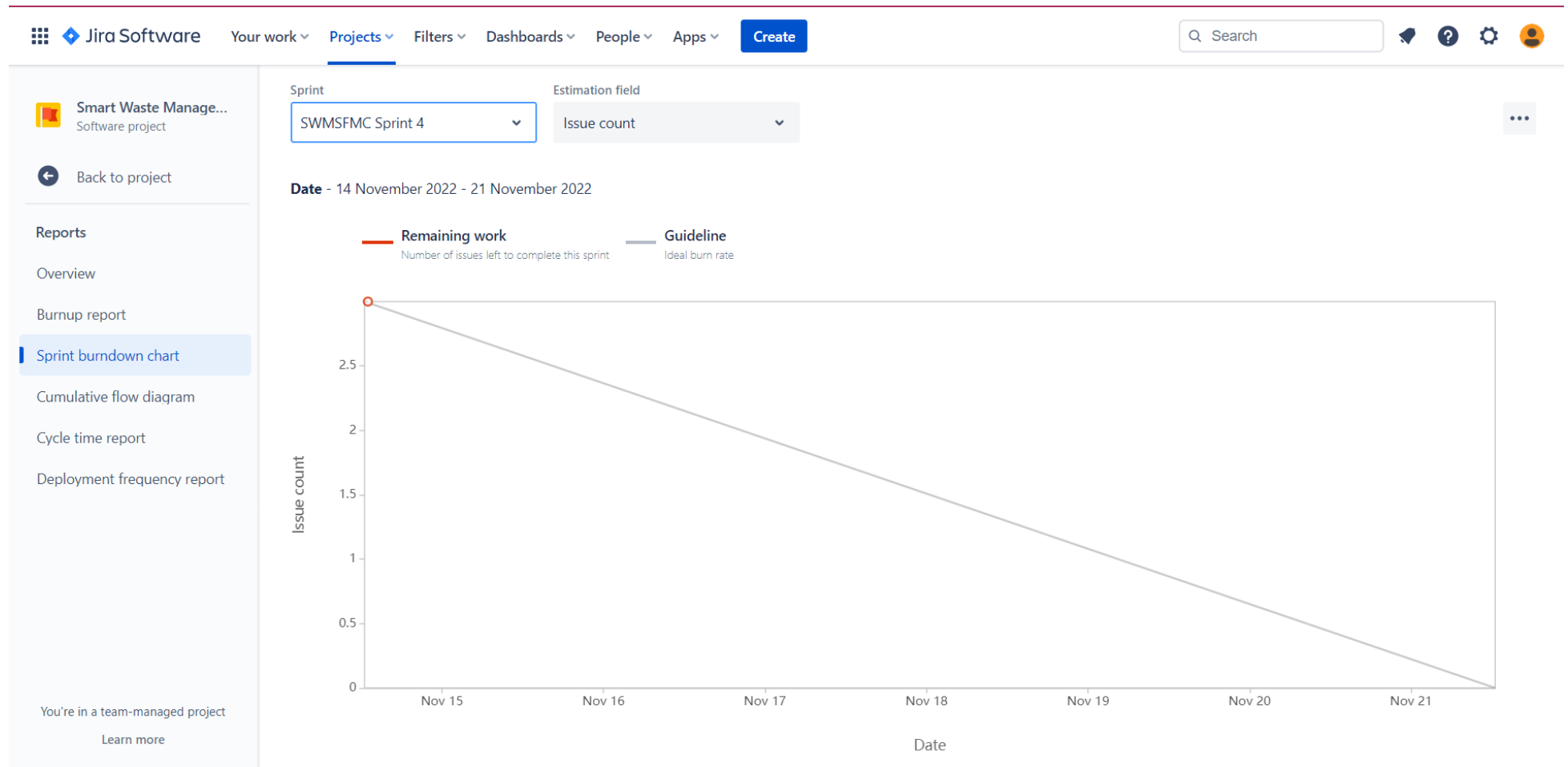
Sprint-2:



Sprint-3:



Sprint-4:



Sprint roadmap:

	SEP	OCT	NOV	DEC	JAN '23	
Sprints			SWMS... SWMS... SWMS... SWMSF...			
> SWMSFMC-15 Registration						
> SWMSFMC-16 Login						
> SWMSFMC-18 view						
> SWMSFMC-20 Actions						
> SWMSFMC-21 Management						
> SWMSFMC-24 Testing						