

Project Planning Phase

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

Date	24 October 2022
Team ID	PNT2022TMID29857
Project Name	Plasma Donor Application
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	A user can register for the application by entering their email, password, and confirming the password.	3	High	Varatharajan N Prem V
Sprint-1	Email verification	USN-2	A user will receive confirmation email once they have registered for the application.	3	High	Varatharajan N Tamilselvan G
Sprint-1		USN-3	A user can register for the application through Google	2	Medium	Varatharajan N Yasvanth S
Sprint-1	Login	USN-4	A user can log into the application by entering email & password	2	High	Varatharajan N Prem V
Sprint-1	Donor Profile	USN-5	A user is able to register themselves as verified plasma donor.	3	High	Varatharajan N Prem V
Sprint-2	Virtual Certificate	USN-6	A user will get a virtual donor certificate after a verified successful plasma donation.	2	Medium	Varatharajan N Mohan Kumar S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Plasma Request	USN-7	A verified clinic is able to make a plasma request in the application	3	High	Varatharajan N Mohan Kumar S
Sprint-2	Verification of Donor's details	USN-8	We the administrators will verify the details provided by the donors so only the genuine donors are able to use the application	2	Medium	Varatharajan N Prem V
Sprint-3	Accept the donation request	USN-9	A user and a registered donor will get a notification to accept the plasma request for their specific blood type.	3	High	Varatharajan N Prem V
Sprint-3	Communication Channel	USN-10	A patient is able to communicate with the donor personally within the application.	3	Medium	Varatharajan N Yasvanth S
Sprint-3		USN-11	A user and a registered donor is able to share their location with the recipient after accepting their plasma request.	3	Medium	Varatharajan N Tamilselvan G
Sprint-3	Administrator	USN-12	An admin will store the registered donor's details after verification into the database.	3	High	Varatharajan N Prem V
Sprint-4	Support	USN-13	A user is able to ask basic question related to plasma donation with the help of chat-bot.s	2	Medium	Varatharajan N Mohan Kumar S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4		USN-14	A user can find the answers for the frequently asked question about the plasma donation in the FAQ section	3	High	Varatharajan N Prem V
Sprint-4	About	USN-15	A new user can read about plasma and plasma donation in dedicated about section.	2	Medium	Varatharajan N Mohan Kumar S
Sprint-4	Administrator	USN-16	An admin will approve all the plasma transaction in the application after proper verification	3	High	Varatharajan N Tamilselvan G
Sprint-4		USN-17	An admin, I will update the plasma availability and donors count periodically	3	Medium	Varatharajan N Yasvanth 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	18	6 Days	24 Oct 2022	29 Oct 2022	18	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	18	6 Days	07 Nov 2022	12 Nov 2022	18	12 Nov 2022
Sprint-4	18	6 Days	14 Nov 2022	19 Nov 2022	18	19 Nov 2022

Velocity:

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)

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

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)	Average Velocity (AV) = Sprint duration / velocity
Sprint-1	18	6 Days	24 Oct 2022	29 Oct 2022	18	29 Oct 2022	3
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022	3.33
Sprint-3	18	6 Days	07 Nov 2022	12 Nov 2022	18	12 Nov 2022	3
Sprint-4	18	6 Days	14 Nov 2022	19 Nov 2022	18	19 Nov 2022	3

Total number of days = sprint 1 + sprint 2 + sprint 3 + sprint 4 = 6 + 6 + 6 + 6 = 24

Total number of story points = 18 + 20 + 18 + 18 = 74

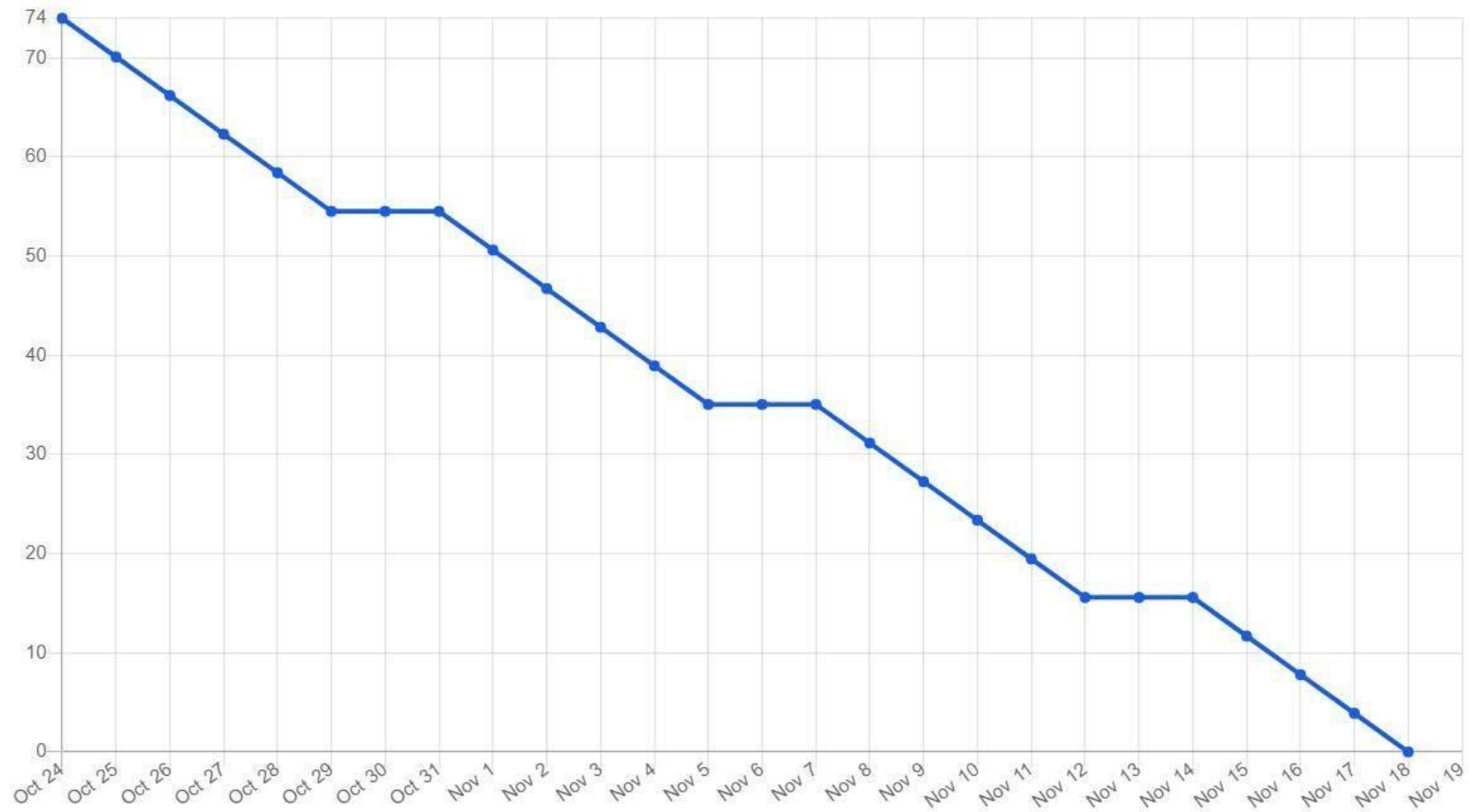
Average velocity per sprint = 74 / 24

≈ 3.083333

= 3

Burndown Chart:

Burndown Chart



Estimated Burndown Chart