

Project Planning Phase

Team ID	PNT2022TMID05875
Project Name	Project - PLASMA DONOR APPLICATION

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	High	Rajsree T Subhiksha N
Sprint-1	Email Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	High	Sivaranjani N Subhiksha N
Sprint-1	Registration	USN-3	As a user, I can register for the application through Gmail and other Email services	Medium	Subhikshaa Shree V N
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password	High	Rajsree T Sivaranjani N
Sprint-1	Profile	USN-5	As a user, I am able to register myself as a registered plasma donor and view my profile page.	High	Subhiksha N Rajsree T
Sprint-2	Social Media	USN-6	As a user, I can link and register to the application through social media accounts	Low	Subhikshaa Shree V N
Sprint-2	Virtual Donor Badge	USN-7	As a user, I can receive a virtual donor badge once I am successfully registered.	Medium	Subhiksha N Subhikshaa Shree V N
Sprint-2	Plasma Request	USN-8	As a user, I can place a plasma request or donate plasma. I will include the Hospital details with the request.	High	Subhiksha N Rajsree T
Sprint-2	Verifying Request	USN-9	As a user, I will wait until my request is verified through Administrators of the app. (We Admins	High	Sivaranjani N

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			will verify the request after confirming with the concerned Hospital)		Subhikshaa Shree V N
Sprint-2	Verifying Donor	USN-10	As a user, I will wait until my donorship is verified through administrators of the app. (We Admins will verify the donor from a list of registered donors and share his details to the requester.)	High	Rajsree T Subhiksha N
Sprint-3	Donation Alarm	USN-11	The Registered Donor is notified with an alarm and a message regarding the request.	High	
Sprint-3	Accept the Request	USN-12	As a Donor, I will accept the plasma request based on my interest and volunteer for the donation.	Medium	Rajsree T Subhiksha N
Sprint-3	Communication Channel	USN-13	The Communication details of the donor will be sent to the Requester and vice versa. The Requester can personally communicate with the Donor. (Details of the donor will be provided according to the level of urgency)	High	Subhiksha N Subhikshaa Shree V N
Sprint-3	Donor Details	USN-14	The details of the volunteered donor are stored in the database.	Medium	Rajsree T Subhiksha N
Sprint-4	Support	USN-15	As a user, I can chat with a chatbot regarding my queries and doubts.	Medium	Subhiksha N Subhikshaa Shree V N
Sprint-4	Grievances and FAQ	USN-16	As a user, I can post my worries and grievances in the comment section. I can also find Frequently asked Questions with answers in the FAQ section.	Medium	Rajsree T Sivaranjani N
Sprint-4	Certificate and Rewards	USN-17	As a donor, I will receive an e-certificate after donations. Virtual rewards are also provided to the donor.	Low	Rajsree T Sivaranjani N
Sprint-4	About	USN-18	As a user, I will find about the importance of plasma donation in this section of the application.	Medium	Subhikshaa Shree V N Rajsree T
Sprint-4	Administrator		We admins will approve all the plasma transaction in the application after proper verification.	High	Subhiksha N Subhikshaa Shree V N

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					Sivaranjani N Subhiksha N
Sprint-4			We admins will update the plasma availability and donor count periodically.	Medium	Subhiksha N Rajsree T
Sprint-4			We admins will give fine touch to the application based on any updates needed in the future.	Medium	Subhikshaa Shree V N Subhiksha N Rajsree T Sivaranjani N

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	25 Oct 2022	30 Oct 2022	18	30 Oct 2022
Sprint-2	18	6 Days	05 Nov 2022	07 Nov 2022	18	07 Nov 2022
Sprint-3	18	6 Days	10 Nov 2022	13 Nov 2022	18	13 Nov 2022
Sprint-4	20	6 Days	15 Nov 2022	18 Nov 2022	20	18 Nov 2022

Velocity:

We have a 6-day sprint duration, and the velocity of the team is 18 (points per sprint), except the Sprint-4 is 20. To calculate the team's average velocity (AV) per iteration unit (story points per day)

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

Number of Sprints	Sprint-1	Sprint-2	Sprint-3	Sprint-4
Total Story Points	18	18	18	20
Duration	6 Days	6 Days	6 Days	6 Days
Average Velocity per Sprint	AV= 18/6 = 3	AV= 18/6 =3	AV= 18/6 =3	AV= 20/6 = 3.33

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

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

Average velocity per sprint = 74 / 24 ~= 3.083333 = 3

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.

