

Project Planning Phase

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

Team ID	PNT2022TMID12046
Project Name	Project - 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	As a user, I can register for the application by entering my email, password, and confirming my password.	4	High	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef N
Sprint-1	Email Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	4	High	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef N
Sprint-1	Registration	USN-3	As a user, I can register for the application through Gmail and other Email services	2	Medium	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef N
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password	4	High	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef 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.	4	High	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef N
Sprint-2	Social Media	USN-6	As a user, I can link and register to the application through social media accounts	2	Low	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef N

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Virtual Donor Badge	USN-7	As a user, I can receive a virtual donor badge once I am successfully registered.	4	Medium	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef 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.	4	High	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef N
Sprint-2	Verifying Request	USN-9	As a user, I will wait until my request is verified through Administrators of the app. (We Admins will verify the request after confirming with the concerned Hospital)	4	High	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef 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.)	4	High	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef N
Sprint-3	Donation Alarm	USN-11	The Registered Donor is notified with an alarm and a message regarding the request.	5	High	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef N
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.	4	Medium	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef 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)	5	High	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef N
Sprint-3	Donor Details	USN-14	The details of the volunteered donor are stored in the database.	4	Medium	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef N

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Support	USN-15	As a user, I can chat with a chatbot regarding my queries and doubts.	3	Medium	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef 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.	3	Medium	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef 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.	3	Low	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef N
Sprint-4	About	USN-18	As a user, I will find about the importance of plasma donation in this section of the application.	3	Medium	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef N
Sprint-4	Administrator		We admins transaction verification will approve all the application after the plasma proper.	3	High	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef N
Sprint-4			We admins will update the plasma availability and donor count periodically.	3	Medium	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef N
Sprint-4			We admins will give fine touch to the application based on any updates needed in the future.	3	Medium	Yaazhini P, Vignesh U, Shivaraja M, Mohamed Ismail Shereef N

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	18	6 Days	31 Oct 2022	05 Nov 2022	18	05 Nov 2022
Sprint-3	18	6 Days	07 Nov 2022	12 Nov 2022	18	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 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.

