

## Project Planning Phase

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

Date	23 October 2022
Team ID	PNT2022TMID43983
Project Name	Project - Plasma Donor Application
Maximum Marks	8 Marks

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

Use the below template to create product backlog and sprint schedule

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 or mobile no, password, and confirming my password.	3	High	Mahadevan, Amarnath
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	3	High	Mohammed Ashik, Dinesh Kumar
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	3	High	Mahadevan, Amarnath
Sprint-1		USN-4	As an admin, I can log in to the admin panel.	3	High	Mohammed Ashik, Dinesh Kumar
Sprint-2	Dashboard	USN-5	As a receiver, I can create request for a plasma	3	High	Mahadevan, Amarnath
Sprint-2		USN-6	As a donor, I can check the plasma the requests posted.	3	High	Mohammed Ashik, Dinesh Kumar
Sprint-2	Verification	USN-7	As an admin , I need to verify the users and hospitals.	2	Medium	Mahadevan, Amarnath
Sprint-2	Dashboard	USN-8	As an admin ,I can create requests and place them on priority.	3	High	Mohammed Ashik, Dinesh Kumar
Sprint-3	Registration	USN-9	As a user, I can register for the application through different SSO's.	1	Low	Mahadevan, Amarnath

Sprint-3	History	USN-10	As a user, I can see my history of donating or requesting plasma.	1	Low	Mohammed Ashik, Dinesh Kumar
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Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Dashboard	USN-11	As a hospital, I can raise notifications about the upcoming plasma donation drives.	2	Medium	Mahadevan, Amarnath
Sprint-4		USN-12	As a user, I can interact with chatbot incase of queries.	1	Low	Srinath, Jayaram
Sprint-4		USN-13	As a donor, I can download the plasma donation certificate	2	Medium	Mahadevan, Amarnath
Sprint-4		USN-14	As an admin, I can remove suspicious users.	3	High	Srinath, Jayaram

#### 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	12	6 Days	24 Oct 2022	29 Oct 2022	12	29 Oct 2022
Sprint-2	11	6 Days	31 Oct 2022	05 Nov 2022	11	05 Nov 2022
Sprint-3	4	6 Days	07 Nov 2022	12 Nov 2022	4	12 Nov 2022
Sprint-4	6	6 Days	14 Nov 2022	19 Nov 2022	6	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-1	12	6 Days	24 Oct 2022	29 Oct 2022	12	29 Oct 2022	2
Sprint-2	11	6 Days	31 Oct 2022	05 Nov 2022	11	05 Nov 2022	1.83
Sprint-3	4	6 Days	07 Nov 2022	12 Nov 2022	4	12 Nov 2022	0.66
Sprint-4	6	6 Days	14 Nov 2022	19 Nov 2022	6	19 Nov 2022	1

Total no of days = 6+6+6+6

= 24

Total Story points = 12+11+4+6

= 33

Average Velocity per Sprint = 33/24

= 1.375

## 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.

