Project Planning Phase

Date	20 October 2022
Team ID	PNT2022TMID53106
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	Account Creation	USN-1	As a user, I can create an account on the application.	5	High	Madhulica, Arandeep
Sprint-1	Login	USN-2	I can successfully login to the application using provided login credentials.	5	High	Vaibhav, Srivatsan
Sprint-1	Storage	USN-3	As a user, my data will be stored on cloud in IBM Database.	5	High	Vaibhav, Srivatsan
Sprint-2	Registration as Donor	USN-4	As a user, I can fill as a donor and my blood report details will be stored in database for a suitable match as and when required.	3	Low	Madhulica, Arandeep
Sprint-2	Donation History	USN-5	No. of registered donors and their donation history for each registered account is retrieved from the database.	10	High	Madhulica, Arandeep
Sprint-2	Plasma Matching	USN-6	For a receiver of plasma, real time blood group matching is done using database data.	5	Low	Vaibhav, Srivatsan
Sprint-3	Front End	USN-7	Create front end for all above listed services and connect them to back end and database.	10	Medium	Madhulica, Arandeep
Sprint-4	SendGrid Implementation	USN-8	Using SendGrid to automate the email-sending process without maintaining email servers.	5	Low	Vaibhav, Srivatsan
Sprint-4	Additional Features	USN-9	Implement all additional features of the application	5	Low	Madhulica, Arandeep
Sprint-4	Testing	Testing	Testing all the features of the application.	15	High	Vaibhav, Srivatsan

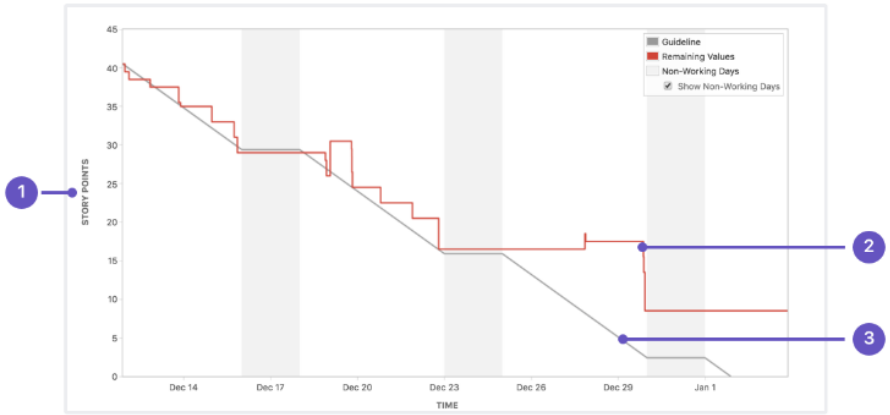
Project Tracker, Velocity & Burndown Chart: (4 Marks)

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	15	6 Days	23 Oct 2022	29 Oct 2022	Will be updated as we go.	
Sprint-2	8	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	25	6 Days	14 Nov 2022	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)

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

Burndown Chart:



1. **Estimation statistic**: The vertical axis represents the estimation statistic that you've selected.

2. **Remaining values**: The red line represents the total amount of work left in the sprint, according to your team's estimates.

3. **Guideline**: The grey line shows an approximation of where your team should be, assuming linear progress. If the red line is below this line, congratulations - your team's on track to completing all their work by the end of the sprint. This isn't foolproof though; it's just another piece of information to use while monitoring team progress.

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.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts