

Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID08777
Project Name	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, and password, and confirming my password.	6	High	Kannan R Thanusha N R
Sprint-1	Login	USN-2	As a user, I can log into the application by entering my email & password.	6	High	Kannan R Kanimozhi V
Sprint-1	Admin Register	USN-3	An admin can register through the admin registry.	4	Medium	Thanusha N R Mohammed Almas.S
Sprint-1	Admin Register via Script	USN-4	Creating an Admin Account using a python script. For security reasons we should implement a separate python script.	4	High	Kannan R Thanusha N R
Sprint-2	Implementing Authentication System	USN-5	Creating an authentication and secured system for both admin and users using flask application	6	High	Kannan R Mohammed Almas.S
Sprint-2	Creating tables	USN-6	Creating Db2 account and creating tables in Db2 in IBM cloud db2	4	Medium	Thanusha N R Kanimozhi V
Sprint-2	Creating SSL certificate and integrating with html code	USN-7	Creating the SSL certificate to connect db2 via html code.	6	High	Kannan R Mohammed Almas.S
Sprint-2	Creating dashboard	USN-8	Admin and Donor can interact using this application.	4	Medium	Thanusha N R Kanimozhi V

Sprint	Functional Requirement (Epic)	User Story Number	User StoryNumber	Story Points	Priority	Team Members
Sprint-3	Plasma request and donor acknowledge feature	USN-9	Admin can request for plasma which will be shown in the user portal.	6	High	Kannan R Kanimozhi V
Sprint-3	Creating dashboard for admin	USN-10	In Admin dashboard, admin can view all the plasma request that has been requested by the recipient/user.	6	High	Kannan R Mohammed Almas.S
Sprint-3	Integrating the Watson chat bot	USN-11	Users can use the chatbot for basic clarification.	4	Medium	Kanimozhi V Mohammed Almas.S
Sprint-3	Integration with SendGrid .	USN-12	The source/verification mail for both user(donar and recipient).	4	Medium	Thanusha N R Kanimozhi V
Sprint-4	Docker installation	USN-13	Installing Docker CLI.	4	Low	Thanusha N R Kanimozhi V
Sprint-4	Creating docker image	USN-14	Setting up the docker environment and creating the docker image file.	6	High	Kannan R Mohammed Almas.S
Sprint-4	Kubernetes	USN-15	creating pods in Kubernetes and upload it in IBM cloud.	6	Medium	Thanusha N R Kanimozhi V
Sprint-4	End-to-End Testing	USN-16	Implementing End-to-End testing.	6	High	Kannan R Mohammed Almas.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	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	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).

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

Velocity:

AV = Sprint Duration / Velocity = 20/6 = 3.3333...

Sprint 1(AV)= 3.34

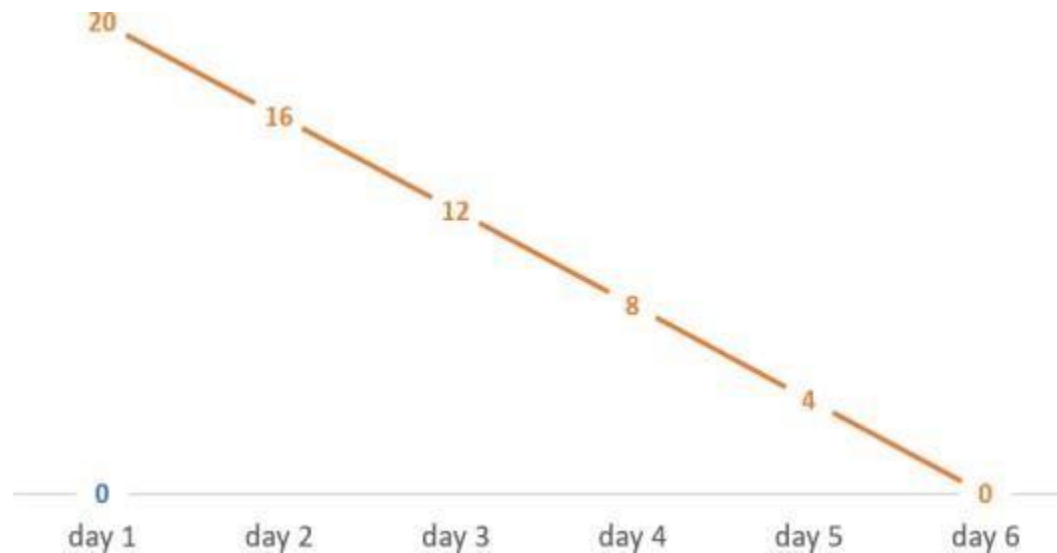
Sprint 2(AV)=3.34

Sprint 3(AV)=3.34

Sprint 4(AV)=3.34

Burndown Chart:

A burndown 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, burndown 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>

Reference:

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

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