

## Project Planning Phase

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

Date	28 October 2022
Team ID	PNT2022TMID43155
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	A User can register and create the user account	5	High	Praveen Kumar, Dinesh
Sprint-1	login	USN-2	A User can sign-in to the application by entering the registered email id and password	5	High	Kumaresan,devarajan
Sprint-1	Admin Register	USN-3	An admin can register through the admin registry	5	High	Praveen Kumar, Dinesh
Sprint-1	Register Admin Via Script	USN-4	Creating an Admin Account using a python script. As for security reasons we should implement a separate python scrip	5	High	Devarajan,kumaresan
Sprint-2	Implementing Authentication System	USN-5	creating an authentication system for both admin and users using flask application	6	High	Kumaresan,devarajan
Sprint-2	Creating Tables	USN-6	Creating Db2 account and creating the tables in DB2 in IBM cloud db2	4	High	Devarajan,kumaresan
Sprint-2	Creating SSL certificate and integrating with python code	USN-7	Creating the SSL certificate to connect db2 via python code	4	High	Devarajan,kumaresan
Sprint-2	Creating dashboard	USN-8	Admin and Donor can interact with our application.	6	High	Praveen Kumar, Dinesh

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Plasma request and donor acknowledge feature	USN-9	Admin can create plasma requests which will be shown in the user portal	5	High	Kumaresan,devarajan
Sprint-3	Creating dashboard for admin	USN-10	Admin dashboard, admin can view the total request has been requested for plasma by the recipient/user.	5	High	Devarajan,kumaresan
Sprint-3	Integrating the Watson chat bot	USN-11	Users can use the chatbot for basic clarification using the chatbot	5	High	Praveen Kumar, Dinesh
Sprint-3	Integration with SendGrid	USN-12	The source/verification mail for both user(donor and recipient)	5	High	Praveen Kumar, Dinesh
Sprint-4	Docker installation	USN-13	Installing Docker CLI	6	High	Kumaresan, devarajan
Sprint-4	Creating docker image	USN-14	Setting up the docker environment and creating the docker image file	6	High	Devarajan, Kumaresan
Sprint-4	Kubernetes	USN-15	creating pods in Kubernetes and uploading it in IBM cloud	4	High	Devarajan, Kumaresan
Sprint-4	End-to-End Testing	USN-16	Implementing End-to-End testing	4	High	Kumaresan, devarajan

#### 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	24 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	31 Nov 2022	20	05 Oct 2022
Sprint-3	20	6 Days	07 Nov 2022	07 Nov 2022	20	12 Oct 2022

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-4	20	6 Days	14 Nov 2022	14 Nov 2022	20	19 Oct 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)

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

### 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.

<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>