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

Date	24 October 2022
Team ID	PNT2022TMID17680
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	A user(donor) can register a account in our portal	3	High	Pradeep Ragul, ThinaHarish
Sprint-1	Login	USN-2	A user can log into the application by entering email & password.	3	High	Shiva Shastha Saurav
Sprint-1	Admin Register	USN-3	An admin can register their details on the website.	2	Medium	Pradeep Ragul Saurav
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 script.	2	High	Shiva Shastha Thina Harish
Sprint-2	Implementing Authentication System	USN-5	creating a authentication system for both admin and users using sessions and cookies in flask application	3	High	Pradeep Ragul Shiva Shastha
Sprint-2	Creating Tables For User, Admin Plasma Donor	USN-6	Creating Db2 account and creating the tables[**user,admin,plasma request**] in DB2 in IBM platform	2	Medium	Thinaharish Saurav

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Creating SSL certificate and integrating with python script	USN-7	Creating the SSL certificate to connect db2 via python script.	3	High	Pradeep Ragul Shiva Shastha
Sprint-2	Creating Dashboard	USN-8	Admin and Donor can interact with our application.	2	Medium	Saurav C Pradeep ragul
Sprint-3	Plasma request and donor acknowledge feature	USN-9	Admin can create plasma requests which will be shown in the user portal.	3	High	Shiva Shastha Saurav C
Sprint-3	Creating inventory for admin	USN-10	Admin inventory , admin can view the total request has been donated and current plasma request by all admin.	3	High	Thinaharish Pradeep ragul
Sprint-3	Integrating the watson chat bot	USN-11	Users can use the chatbot for basic clarification using the chatbot.	2	Medium	Saurav ThinaHarish
Sprint-3	Integration of sendgrid.	USN-12	The donor gets the details of the recipient like where the donor should give the blood(**location**),contact person(**number**).	2	Medium	Pradeep Ragul
Sprint-4	Docker installation	USN-13	Installing Docker CLI	1	Low	Shiva Shastha

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4		USN-14	Setting up the docker environment and creating the docker image file	3	High	Thina Harish Saurav
Sprint-4	Kubernetes	USN-15	creating pods in Kubernetes and uploading it in IBM cloud	3	Medium	Pradeep Ragul Shiv Shashtha
Sprint-4	end to end Testing	USN-16	Implementing end-to-end testing	3	High	Saurav ThinaHarish

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	10	6 Days	24 Oct 2022	29 Oct 2022	10	29 Oct 2022
Sprint-2	10	6 Days	31 Oct 2022	05 Nov 2022	10	05 Nov 2022
Sprint-3	10	6 Days	07 Nov 2022	12 Nov 2022	10	12 Nov 2022
Sprint-4	10	6 Days	14 Nov 2022	19 Nov 2022	10	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)

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

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 duration / velocity
Sprint-1	10	6 Days	24 Oct 2022	29 Oct 2022	10	29 Oct 2022	1.66
Sprint-2	10	6 Days	31 Oct 2022	05 Nov 2022	10	05 Nov 2022	1.66
Sprint-3	10	6 Days	07 Nov 2022	12 Nov 2022	10	12 Nov 2022	1.66
Sprint-4	10	6 Days	14 Nov 2022	19 Nov 2022	10	19 Nov 2022	1.66

Total number of days = sprint 1 + sprint 2 + sprint 3 + sprint 4 = 6 + 6 + 6 + 6 = 24

Total number of story points = 10 + 10 + 10 + 10 = 40

Average velocity per sprint = 40 / 24

= 1.6666

Burndown Chart