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

Date	29 October 2022
Team ID	PNT2022TMID19998
Project Name	Project - Analytics of Hospital Health care data
Maximum marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection	USN-1	The User needs a complete data about the patients admitted in the hospital and a dataset should be prepared.	20	Medium	Gokul Kishore Dhiyaneshwaran Arun G
Sprint-1	Data Exploration	USN- 2	As a user, I need nicely visualized dashboard of number of beds occupied and number of free beds in hospital.	10	High	Tamilarasu Naveen K C

Sprint		USN				
Sprint-2	Track of patient visit of Hospital	USN-3	Tracking a patient Health care over years of visit and Screening of data they have in hospital.	10	Medium	Arun G Gokul Kishore
Sprint -2	Dashboard	USN - 4	As a user, I want the interactive dashboard to analyse the data. Have the data in terms of Graph.	20	High	Tamilarasu Naveen K C
Sprint-3	Detailed EHR's of patient	USN-5	Provided greater details in the EHR's of individual patient with clear idea of what to do.	10	Medium	Arun G Gokul Kishore Dhiyaneshwaran
Sprint- 3	Story Creation	USN-6	As a user, I need the story animation of the data set with insights	20	High	Tamilarasu Naveen K C Arun G
Sprint-4	Predict LOS	USN-7	As a user, I want the flawless system to predict the length of stay of the patients	10	High	Tamilarasu Naveen K C Dhiyaneshwaran
Sprint-4	Using ML algorithm for Prediction	USN-8	As a user, I need prior knowledge of LOS can aid in logistics such as room and bed allocation planning.	20	High	Tamilarasu Naveen K C Dhiyaneshwaran Arun G Gokul Kishore

Project Tracker, Velocity & Burndown Chart:

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Approx)
Sprint-1	20	5 Days	29 Oct 2022	03 Nov 2022	20	03 Oct 2022
Sprint-2	20	5 Days	03 Nov 2022	07 Nov 2022	20	07 Nov 2022
Sprint-3	20	5 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	5 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)

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

Burn Down 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.

SPRINT	DATE	ESTIMATED EFFORT	ACTUAL EFFORT
SPRINT-1	29-OCT-22	20	20
	30-0CT-22	19	20
	31-OCT-22	18	19
	01-NOV-22	17	19
	02-NOV-22	17	18
	03-NOV-22	16	17
SPRINT-2	03-NOV-22	14	13
	04-NOV-22	13	12
	05-NOV-22	12	11
	06-NOV-22	10	9
	07-NOV-22	8	7

SPRINT-3	08-NOV-22	7	6
	09-NOV-22	6	6
	10-NOV-22	5	5
	11-NOV-22	5	5
	12-NOV-22	5	5
	13-NOV-22	4	4
SPRINT-4	14-NOV-22	4	4
	15-NOV-22	3	3
	16-NOV-22	2	2
	17-NOV-22	2	2
	18-NOV-22	1	1
	19-NOV-22	1	1