

## Project Planning Phase

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

<b>Date</b>	26 October 2022
<b>Team ID</b>	PNT2022TMID18166
<b>Project Name</b>	Project - Analytics of Hospital Health care data

#### Product Backlog, Sprint Schedule, and Estimation

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
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.	2	Medium	Kamalesh P, krishnaraj K
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.	4	High	Ashwath S, Dheeraaj P, Kamalesh P
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.	2	Medium	Krishnaraj K, Ashwath S

Sprint -2	Dashboard	USN - 4	As a user, I want the interactive dashboard to analyse the data. Have the data in terms of Graph.	4	High	Dheeraaj P, Ashwath S, Krishnaraj K
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.	2	Medium	Kamalesh P, Dheeraaj P
Sprint- 3	Story Creation	USN-6	As a user, I need the story animation of the data set with insights	4	High	Ashwath S, Krishnaraj K
Sprint-4	Predict LOS	USN-7	As a user, I want the flawless system to predict the length of stay of the patients	4	High	Kamalesh P, Krishnaraj K, Dheeraaj P
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.	4	High	Dheeraaj P, Ashwath S, Kamalesh P,

### 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 (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)

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

### 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	24-OCT-22	20	20
	25-OCT-22	19	20
	26-OCT-22	18	19
	27-OCT-22	17	19
	28-OCT-22	17	18
	29-OCT-22	16	17
	30-OCT-22	15	15
SPRINT-2	31-OCT-22	14	13
	01-NOV-22	13	12
	02-NOV-22	12	11
	03-NOV-22	11	11
	04-NOV-22	11	11
	05-NOV-22	10	9
	06-NOV-22	9	8
	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

## Progress Burdown Chart

