

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

Date	22 October 2022
Team ID	PNT2022TMID07721
Project Name	Analytics for Hospital's Health-Care Data
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	Data Collection & Data Prep	USN-1	As a user I need to get proper data specialist to use my data for data prediction and data analytics	20	High	Abisha R Dhayalini P U
Sprint-1	Data Cleaning & Removing Empty and NULL Values	USN-2	As a user I need to be very clear in my hospital records no error in hospital record should happen	10	Medium	Savitha P Dhayalini P U
Sprint-2	Visualization using IBM Cognos	USN-2	Data presented in numbers and letters are difficult to understand so graphs and charts are needed to be done	10	Medium	Dharshan Prasath H Abisha R
Sprint-2	Creating predictive analysis model using python using those above visualization	USN-3	As a hospital management authority I need a model for prediction before feeding the actual hospital data set directly into the system	20	High	Dharshan Prasath H Savitha P
Sprint-3	Creating summary tabs for the initial dashboard	USN-4	After data exploration summary tabs may help me to create a predictive analysis – Data specialist	10	Medium	Dhayalini P U Savitha P
Sprint-3	Completing the fully interactive dashboard	USN-4	As an authority member of hospital, I need insights of all data using interactive dashboard	10	High	Dharshan Prasath H Abishar R
Sprint-4	Creating a particular data analytics model for predicting the length of stay	USN-5	As a staff of the hospital, I need a perfect prediction model As a resource manager I need a pre records of the length of stay to avoid shortage at the last minute	20	High	Dharshan Prasath H Savitha P
Sprint-4	Finalizing the project modules and testing	USN-6	Regular testing for flawless working in prediction model is required and delivery of the project- Data Specialist	20	High	Abisha R Dhayalini P U

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)

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