

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

Date	18 October 2022
Team ID	PNT2022TMID14546
Project Name	Project - Visualizing and Predicting Heart Diseases with an Interactive Dashboard
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	Exploring the dataset	USN-1	As a user, I can view the details of data.	3	High	Raswanth
		USN-2	As an analyst, I will explore the data and clean the data for building the efficient model.	3	High	Aswath
		USN-3	As an analyst, I will create a data module.	4	High	Indu Nandhana
Sprint-2	Data Visualization	USN-4	As an analyst, I will create an exploratory data analysis to identify the significant factors for disease prediction.	5	High	Gokula Sree
		USN-5	As an analyst, I will visualize the various causes for the disease using various chart types.	5	High	Raswanth, Gokula Sree
Sprint-3	Disease Prediction	USN-6	As an analyst, I will generate different models to find the model with high accuracy and efficiency	5	Medium	Aswath,Indu Nandhana

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
		USN-7	As an analyst, I will choose a suitable model for my solution.	5	High	Raswanth
Sprint-4	Dashboard Creation	USN-8	As an analyst, I will create a dashboard showing the analysis of the user	3	High	Aswath
		USN-9	As an analyst, I will generate the result of heart disease prediction.	3	High	Indu Nandhana
		USN-10	As an analyst, I will import my model into a suitable framework.	4	High	Raswanth, Aswath

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	5 Days	24 Oct 2022	29 Oct 2022	10	29 Oct 2022
Sprint-2	10	5 Days	31 Oct 2022	05 Nov 2022	10	05 Nov 2022
Sprint-3	10	5 Days	07 Nov 2022	12 Nov 2022	10	12 Nov 2022
Sprint-4	10	5 Days	14 Nov 2022	19 Nov 2022	10	19 Nov 2022

Velocity:

Imagine we have a 5-day sprint duration, and the velocity of the team is 10 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$\begin{aligned} AV &= \frac{\text{Sprint Duration}}{\text{Velocity}} \\ &= 10 / 5 = 2 \end{aligned}$$

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.

