

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

Date	18 October 2022
Team ID	PNT2022TMID21554
Project Name	Analytics for Hospital's Health Care Data
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	Analysing and Visualizing Hospital health care data	USN-1	As a user, I want to know the details regarding to hospitals data As a patient, I want to visualize the hospital health care data.	10	Medium	Shujat Hussain, Sri Ram Prasad S
Sprint-1		USN-2	As a patient, I want to know all the details regarding to the dataset	5	Medium	Surya S, Namgail Dorjay
Sprint-2	Dashboard	USN-3	As a user/Patient, I want an interactive dashboard to understand the data easily.	5	High	Surya S, Shujat Hussain
Sprint-2		USN-4	As a patient, I want to find the available rooms/LOS in the hospital. As a patient/user I want to explore all the details in the given in the dataset	3	Medium	Sri Ram Prasad S,
Sprint -2		USN-5	As a user, I want to visualize all the details in the dataset in different formats	2	Low	Namgail Dorjay

Sprint-3	Prediction of LOS	USN-6	As a patient, I want to predict length of stay in the hospitals	7	High	Sri Ram Prasad S, Surya S
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Sprint-3		USN-7	As a Administrator, I want to know the Length of Stay of Each patients	3	Medium	Shujat Hussain
Sprint-4	Monitoring user response and Model Accuracy	USN -8	As a Patient, I want to monitor the model/system accuracy	5	Medium	Surya S
Sprint-4	Admin Login	USN-9	As the admin, I want to login to the admin dashboard	3	Low	Shujat Hussain
Sprint-4	Admin Dashboard	USN-10	As the admin ,I need to be able to monitor the user responses.	2	Medium	Shujat Hussain
Sprint-4		USN-11	As an admin , I want to be able to update the dataset for the model training and monitor the accuracy.	3	High	Surya S

Project Tracker, Velocity & Burndown Chart: (4 Marks)

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

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	15	6 Days	24 Oct 2022	29 Oct 2022	10	
Sprint-2	10	6 Days	31 Oct 2022	05 Nov 2022	20	
Sprint-3	13	6 Days	07 Nov 2022	12 Nov 2022	20	
Sprint-4	15	6 Days	14 Nov 2022	19 Nov 2022	20	

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)

Sprint	Total Story points	Sprint duration	Average velocity
Sprint -1	15	6 days	$15/6=2.5$
Sprint -2	10	6 days	$10/6=1.67$
Sprint -3	13	6 days	$13/6=2.16$
Sprint -4	15	6 days	$15/6=2.5$

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.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>
<https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference: <https://www.atlassian.com/agile/project-management>
<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>
<https://www.atlassian.com/agile/tutorials/epics>
<https://www.atlassian.com/agile/tutorials/sprints> <https://www.atlassian.com/agile/project-management/estimation> <https://www.atlassian.com/agile/tutorials/burndown-charts>