Project Planning Phase

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

Date	27 October 2023
Team ID	PNT2022TMID592629
Project Name	Project - Disease Prediction Using Machine Learning
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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Manish, Samarth, Navneel, Vanshika
Sprint-1	Registration	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Manish, Samarth, Navneel, Vanshika
Sprint-2	Registration	USN-3	As a user, I can register for the application through Facebook	2	Low	Manish, Samarth, Navneel, Vanshika
Sprint-1	Registration	USN-4	As a user, I can register for the application through Gmail	2	Medium	Manish, Samarth, Navneel, Vanshika
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password, there is a separate log in for doctor and patient	1	High	Manish, Samarth, Navneel, Vanshika
Sprint-2	Dashboard	USN-6	As a user, I can view a personalized dashboard after logging in.	3	High	Manish, Samarth, Navneel, Vanshika
Sprint-3	Data Collection	USN-7	As a user, I can provide my symptoms for disease prediction	3	High	Manish, Samarth, Navneel, Vanshika
Sprint-4	Disease Processing	USN-8	As a user, I can see my health data being processed for prediction.	3	Medium	Manish, Samarth, Navneel,

						Vanshika
Sprint-4	Disease Prediction	USN-9	As a user, I can see receive predictions for potential diseases.	5	High	Manish, Samarth, Navneel, Vanshika
Sprint-4	User Notifications	USN-10	As a user, I can receive notifications about predicted diseases.	2	Medium	Manish, Samarth, Navneel, Vanshika
Sprint-5	Testing and validation	USN-11	As a user, I want to ensure the predictions and accurate.	3	High	Manish, Samarth, Navneel, Vanshika
Sprint-5	Deployment	USN-12	As a user, I want the application to be deployed as public use.	3	High	Manish, Samarth, Navneel, Vanshika
Sprint-6	Testing	USN-13	The team members later on tested the model.			Manish, Samarth, Navneel, Vanshika

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 2023	29 Oct 2023	20	29 Oct 2023
Sprint-2	20	6 Days	31 Oct 2023	05 Nov 2023	20	05 Nov 2023
Sprint-3	20	6 Days	07 Nov 2023	12 Nov 2023	20	12 Nov 2023
Sprint-4	20	6 Days	14 Nov 2023	19 Nov 2023	20	19 Nov 2023

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)

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

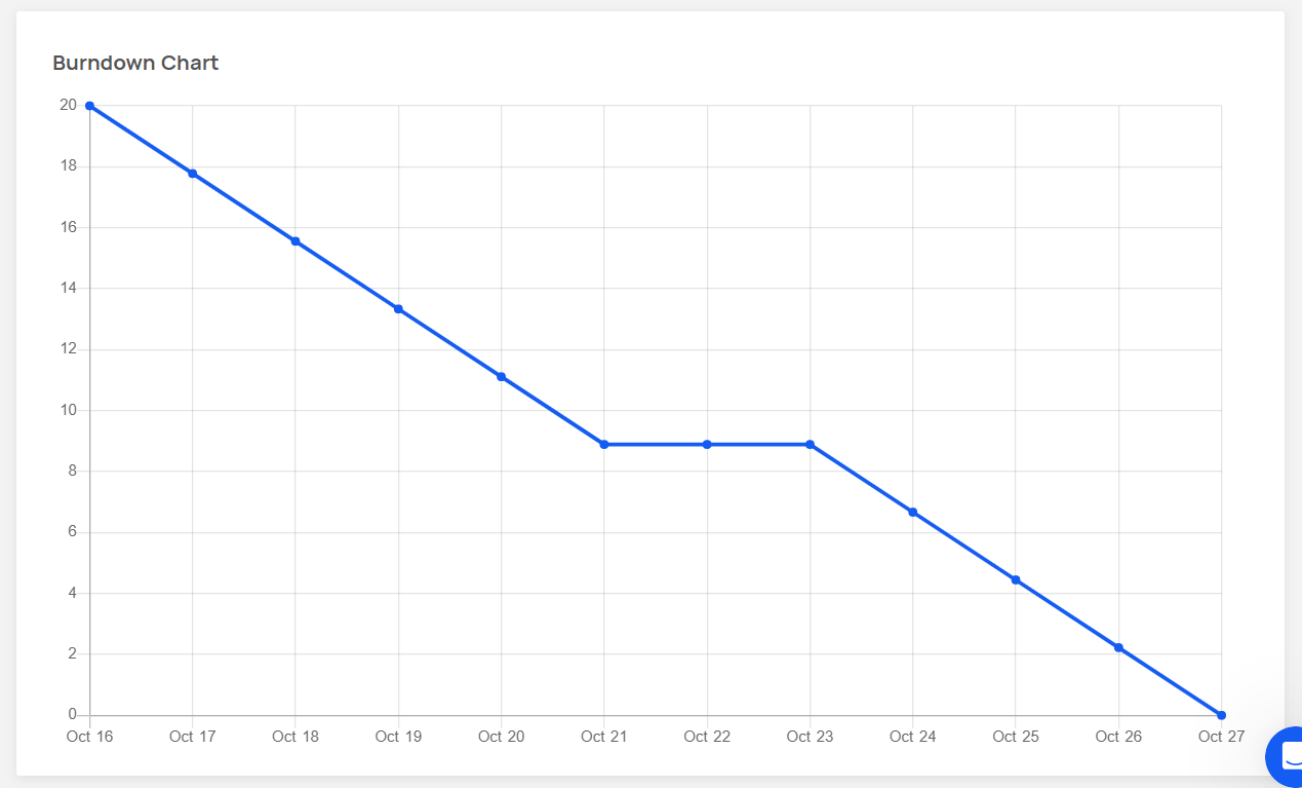
Burndown Chart:

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.
With an average velocity (AV) of 2 points per day, here's the Burndown Chart for all four sprints:

Burndown Chart

Sprint	End Date	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Points Completed	Story Points
Sprint -1	29-10-23	20	18	16	14	12	10	10	0
Sprint -2	05-11-23	20	18	16	14	12	10	10	0
Spint-3	12-11-23	20	18	16	14	12	10	10	0
Sprint -4	19-11-23	20	18	16	14	12	10	10	0

In this Burndown Chart, each day shows the planned story points and the actual story points completed for that day. The "Story Points Completed" column is updated based on the team's progress, and the "Total Remaining Story Points" column shows the remaining points as the sprint progresses. The sprints are completed when the "Total Remaining Story Points" reach 0.



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

Team members:

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