Project Planning Phase

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

Date	8 November 2023
Team ID	592655
Project Name	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	Data Collection	USN-1	As a user, I can collect patient data for training	5	High	Tarun Sreenivas
Sprint-1	Feature Selection	USN-2	As a user, I can identify relevant features	3	High	Tarun Sreenivas
Sprint-2	Model Development	USN-3	As a user, I can build machine learning model	8	High	Attada Karthikeya
Sprint-2	Testing	USN-4	As a user, I can evaluate model performance	5	Medium	Anish Narla
Sprint-3	Integration	USN-5	As a user, I can integrate model into application	5	Medium	P Sri Sai Yagnik
Sprint-3	User Interface	USN-6	Design UI for the prediction system	8	High	P Sri Sai Yagnik
Sprint-4	Documentation	USN-7	Create project documentation	3	Low	Anish Narla
Sprint-4	Optimization	USN-8	Optimize model for performance	3	Low	Attada Karthikeya

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 2022
Sprint-2	20	6 Days	30 Oct 2023	04 Nov 2023	20	04 Nov 2023
Sprint-3	20	6 Days	05 Nov 2023	10 Nov 2023	20	10 Nov 2023
Sprint-4	20	6 Days	05 Nov 2023	10 Nov 2023	20	10 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)

$$AV = \text{sprint duration} / \text{velocity} = 80/4 = 20$$

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