Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID12535
Project Name	Project - Early Detection of Chronic Kidney Disease using Machine Learning
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	Homepage	USN-1	As a user, I can see the homepage of the application	4	Medium	Darwin Debbarma, Swetha
Sprint-2	Dashboard	USN-2	As a user, I must enter the required parameters required to make the prediction	7	High	Darwin Debbarma, Anita Priyadharshini
Sprint-3	Result	USN-3	As a user, I can view the report generated by the tool (Prediction result – Positive/Negative)	8	High	Anita Priyadharshini, Swetha
Sprint-2		USN-4	As an administrator, I should identify the most significant factors that lead to CKD based on the present trend and come up with the input parameter that should be given by the user for CKD prediction	5	High	Pavithra, Anita Priyadharshini
Sprint-3	Prediction	USN-5	As an administrator, I must use the most suitable ML model for detection of CKD	4	High	Pavithra, Swetha
Sprint-4		USN-6	As an administrator, I must ensure that the web application is live and is accessible on any device with internet connectivity	7	High	Darwin Debbarma, Pavithra

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	14 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)

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