Project Planning Phase

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

Date	29 October 2022
Team ID	PNT2022TMID06387
Project Name	Project - Detecting Parkinson’s Disease 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-2	Home Page	USN-1	Description about Parkinson's disease.	8	Low	Hariharan M Raja M
Sprint-2		USN-2	Details about the test vitals required for the testing.	13	Low	Raja M Hariprasath B
Sprint-3	Registration	USN-3	As a user, I can register for the application by entering my username, email, phone number, and password, and confirming my password.	5	Medium	Hari Priya D Hariharan M
Sprint-3	Login	USN-4	As a user, I can log in to the web application by entering my email id & password.	5	Medium	Hari Priya D Raja M

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Main Page(Test vitals)	USN-5	As a user, I submit the required image for the prediction.	3	Medium	Hariharan M Hariprasath B
Sprint-3	Result	USN-6	Results will be displayed	8	High	Hariprasath B Raja M Hari Priya D
Sprint-1	Data collection	USN-7	Collect the required data for the detection of Parkinson's disease	8	High	Hariharan M Hari Priya D Raja M
Sprint-1	Data preprocessing	USN-8	Clean and analyze the data to avoid noise and duplications	8	High	Hari Priya D Hariharan M Hariprasath B
Sprint-1	Model Building	USN-9	Build the model using a Random forest classifier to classify the images.	5	High	Raja M Hariprasath B Hariharan M
Sprint-4	Deploy the model	USN-10	Deployment of ML model using IBM Watson Studio, object storage.	13	High	Hariharan M Hari Priya D Hariprasath B Raja M
Sprint-4	Integrate the web app with the IBM model	USN-11	Use flask for the integration purpose.	8	Medium	Hari Priya D Hariprasath B

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	21	6 Days	04 Nov 2022	29 Oct 2022	21	29 Oct 2022
Sprint-2	21	6 Days	31 Oct 2022	05 Nov 2022	21	02 Nov 2022
Sprint-3	21	6 Days	07 Nov 2022	12 Nov 2022	21	12 Nov 2022
Sprint-4	21	6 Days	18 Nov 2022	19 Nov 2022	21	18 Nov 2022

Velocity: we have a 6-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).

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{21}{6} = 3.5$$