Project Planning Phase
Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	24-October 2022
Team ID	PNT2022TMID33058
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-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Dheeptha.M Praveena.T
Sprint-1	Verification	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Rashmika.S Sakthipriya.S
Sprint-2	Profile	USN-3	As a user, I can create a profile for the application	2	Low	Praveena.T Rashmika.S
Sprint-1	Sign up page	USN-4	As a user, I can sign up for the application through Gmail	2	Medium	Dheeptha.M Rashmika.S
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Praveena.T Sakthipriya.S
Sprint-2	Dashboard	USN-6	As a user I can create ,upload and delete the related data	1	Low	Dheeptha.M Sakthipriya.S
Sprint-2	Data uploading	USN-7	As a user ,I can upload images of spiral and waves to the websites in order to receive a diagnosis	2	High	Rashmika.S Sakthipriya.S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Result	USN-8	As a user ,I can receive diagonised results and recommendations based on inputs	2	Medium	Dheeptha.M Praveena.T

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Data Collection	USN-7	I need to collect data (images of spirals and waves drawn by healthy people and Parkinson's patients).	2	High	Dheeptha.M Praveena.T Rashmika.S
Sprint-3	Data Pre-Processing	USN-8	I need to clean my data and prepare it for model building by doing pre-processing activities such as resizing, converting from RGB to grayscale etc.	2	High	Dheeptha.M Praveena.T Sakthipriya.S
Sprint-4	Model Building	USN-9	I need to build the model using Random Forest Classifier for spiral images and K Nearest Neighbour (KNN) for wave images	2	High	Praveena.T Rashmika.S Sakthipriya.S
Sprint-4	Model Deployment	USN-10	I need to deploy the Machine Learning model that was built.	2	High	Dheeptha.M Rashmika.S Sakthipriya.S
Sprint-3	Application Building	USN-11	I need to build the website for the application using HTML, CSS etc	2	High	Dheeptha.M Praveena.T Rashmika.S Sakthipriya.S

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	19 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)

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

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