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

Team ID	PNT2022TMID52612
Project Name	Project - Detecting Parkinson's
	Disease
	Using Machine Learning
Maximum Marks	8 Marks

## **Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

The below template shows the product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Upload Images	USN-1	As a user, I can upload the images in the website in order to obtain the prediction result of parkinson's disease	2	High	1.Yokesh RS 2. Vishal Karthik S 3. Gourav Gopal 4. Nalin Suriya S
Sprint-4	Test Vital Page	USN-2	As a user, I will get the prediction result and accuracy on the test vital page.	3	High	1.Yokesh RS 2. Vishal Karthik S 3. Gourav Gopal 4. Nalin Suriya S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Dashboard	USN-3	Dashboard displays the symptoms, causes and medications for the Parkinson disease	2	Low	1.Yokesh RS 2. Vishal Karthik S 3. Gourav Gopal 4. Nalin Suriya S
Sprint-1	Data Collection	USN-4	As an Administrator, I need to collect data (images of spirals and waves drawn by healthy people and Parkinson's patients).	2	High	1.Yokesh RS 2. Vishal Karthik S 3. Gourav Gopal 4. Nalin Suriya S
Sprint-1	Data Pre- Processing	USN-5	As an Administrator, I should clean my data and prepare it for model building by doing pre- processing activities such as resizing, visualizing the dataset and converting from RGB to grayscale	2	High	1.Yokesh RS 2. Vishal Karthik S 3. Gourav Gopal 4. Nalin Suriya S
Sprint-2	Model Building	USN-6	As an Administrator, I need to build the model using Random Forest Classifier for spiral images and Convolutional Neural Networks (CNN) for wave images	3	High	1.Yokesh RS 2. Vishal Karthik S 3. Gourav Gopal 4. Nalin Suriya S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Deployment of Model	USN-7	As an Administrator, I need to deploy the Machine Learning model that was built.	2	Medium	1.Yokesh RS 2. Vishal Karthik S 3. Gourav Gopal 4. Nalin Suriya S
Sprint-3	Building Frontend of the application	USN-8	As an Administrator, I need to build the website for the application using HTML, CSS etc.	2	High	1.Yokesh RS 2. Vishal Karthik S 3. Gourav Gopal 4. Nalin Suriya S
Sprint-4	Connecting the ML model, Frontend and Backend	USN-9	As an Administrator, I can integrate the deployed model and web application using python flask server.	3	High	1.Yokesh RS 2. Vishal Karthik S 3. Gourav Gopal 4. Nalin Suriya 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-	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
1						
Sprint-	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
2						
Sprint-	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
3						
Sprint-	20	6 Days	14 Nov 2022	19 Nov 2022	20	14 Nov 2022
4						

### **Velocity:**

For example, 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)

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

In our project, we have a 6-days 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)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{6} = 3.3$$

#### **Burndown Chart:**

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile <u>software</u>

<u>development</u> methodologies such as <u>Scrum</u>. However, burn down charts can be applied to any project containing measurable progress over time.

A burndown chart is almost a "must" have tool for a Scrum Team for the following main reasons:

- monitoring the project scope creep
- Keeping the team running on schedule
- Comparing the planned work against the team progression