

## **Project Planning Phase**

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

Date	04 November 2022
Team ID	PNT2022TMID12773
Project Name	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

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
Sprint-1	Image pre-processing	USN-6	Pre-processing the spiral and wave images and extracting the features	3	High	Lolla Akshatha Devi Samritha D Saranya T Sundereswaran R
Sprint-1	Model Building	USN-6	Using the dataset building a model to classify the image	3	High	Lolla Akshatha Devi Samritha D Saranya T Sundereswaran R
Sprint-1	Image processing localization	USN-9	The uploaded image is pre-processed and fed into trained model.	3	High	Lolla Akshatha Devi Samritha D Saranya T Sundereswaran R
Sprint-2	Web application	USN-2	Creating the web application using Flask web framework	2	Medium	Lolla Akshatha Devi Samritha D Saranya T Sundereswaran R
Sprint-2	Dashboard	USN-6	As a user, I can upload my images and get my details.	3	High	Lolla Akshatha Devi Samritha D Saranya T Sundereswaran R
Sprint-3	Training the model on IBM Watson	USN-6	Using the dataset building a model to classify the image in IBM watson	2	Medium	Lolla Akshatha Devi Samritha D Saranya T Sundereswaran R

Sprint-3	Classification and prediction	USN-9	The model classifies and predicts the type of disease.	3	High	Lolla Akshatha Devi Samritha D Saranya T Sundereswaran R
Sprint-4	Login	USN-5	As a user, I can log into the application by entering email & password	3	High	Lolla Akshatha Devi Samritha D Saranya T Sundereswaran R
Sprint-4	Report generation	USN-10	Based on the prediction of Parkinson's disease, the health care is generated to provide the feedback.	2	Medium	Lolla Akshatha Devi Samritha D Saranya T Sundereswaran R

### 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	03 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	08 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	13 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)

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

Average velocity = Story points per day

Sprint Duration = No of (Duration) days per sprint

Velocity = Points per sprint

$$AV = 20 / 4 = 5$$

### 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.

