

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID32593
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

**User:**

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Landing Page	USN-1	As a user, I can view the homepage and instructions to use the website.	4	Medium	Abilash S Aruna A P Deepakkumar G Keerthika E
Sprint-1	Registration	USN-2	As a user, I can register for the application through Gmail.	4	High	Abilash S Aruna A P Deepakkumar G Keerthika E
Sprint-1	Authorization	USN-3	As a user, I will receive a confirmation email once I have registered for the application.	4	High	Abilash S Aruna A P Deepakkumar G Keerthika E
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password.	4	Medium	Abilash S Aruna A P Deepakkumar G Keerthika E

<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	Personal Details	USN-5	As a user, I can complete my profile.	4	Low	Abilash S Aruna A P Deepakkumar G Keerthika E
Sprint-2	Drawing the dataset	USN-6	As a User, I have to draw datasets.	6	Medium	Abilash S Aruna A P Deepakkumar G Keerthika E
Sprint-2	Upload the Datasets	USN-7	As a User, I have to upload the datasets for prediction.	8	High	Abilash S Aruna A P Deepakkumar G Keerthika E
Sprint-3	Analyse the Dataset	USN-8	As a User, I can analyse the result of the dataset uploaded.	10	High	Abilash S Aruna A P Deepakkumar G Keerthika E
Sprint-4	Generate Report	USN-9	As a User, I can collect my reports.	10	Medium	Abilash S Aruna A P Deepakkumar G Keerthika E

**Developer:**

<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-2	Collecting Datasets	USN-10	I need to collect the datasets from the users input.	6	High	Abilash S Aruna A P Deepakkumar G Keerthika E
Sprint-3	Logic building	USN-11	I need to use machine learning algorithms like random forest classifiers to analyse the datasets.	10	High	Abilash S Aruna A P Deepakkumar G Keerthika E
Sprint-4	Front End	USN-12	I need to create the front end using html,css.	10	Medium	Abilash S Aruna A P Deepakkumar G Keerthika E

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

<b>Sprint</b>	<b>Total Story Points</b>	<b>Duration</b>	<b>Sprint Start Date</b>	<b>Sprint End Date (Planned)</b>	<b>Story Points Completed (as on Planned End Date)</b>	<b>Sprint Release Date (Actual)</b>
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)

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

### 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>