

## Project Planning Phase

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

|               |  |
|---------------|--|
| Date          | 18 October 2022                                      |
| Team ID       | PNT2022TMID10815                                     |
| 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   | Rajasekar V<br>Ragul M<br>Nandhakumar<br>Pradeesh S |
| Sprint-1 | Registration                  | USN-2             | As a user, I can register for the application through Gmail.                               | 4            | High     | Rajasekar V<br>Ragul M<br>Nandhakumar<br>Pradeesh S |
| Sprint-1 | Authorization                 | USN-3             | As a user, I will receive a confirmation email once I have registered for the application. | 4            | High     | Rajasekar V<br>Ragul M<br>Nandhakumar<br>Pradeesh S |
| Sprint-1 | Login                         | USN-4             | As a user, I can log into the application by entering email & password.                    | 4            | Medium   | Rajasekar V<br>Ragul M<br>Nandhakumar<br>Pradeesh S |

| Sprint   | Functional Requirement (Epic) | User Story Number | User Story / Task  | Story Points | Priority | Team Members  |
|----------|-------------------------------|-------------------|--|--------------|----------|---|
| Sprint-1 | Personal Details              | USN-5             | As a user, I can complete my profile.                        | 4            | Low      | Rajasekar V<br>Ragul M<br>Nandhakumar<br>Pradeesh S |
| Sprint-2 | Drawing the dataset           | USN-6             | As a User, I have to draw datasets.                          | 6            | Medium   | Rajasekar V<br>Ragul M<br>Nandhakumar<br>Pradeesh S |
| Sprint-2 | Upload the Datasets           | USN-7             | As a User, I have to upload the datasets for prediction.     | 8            | High     | Rajasekar V<br>Ragul M<br>Nandhakumar<br>Pradeesh S |
| Sprint-3 | Analyse the Dataset           | USN-8             | As a User, I can analyse the result of the dataset uploaded. | 10           | High     | Rajasekar V<br>Ragul M<br>Nandhakumar<br>Pradeesh S |
| Sprint-4 | Generate Report               | USN-9             | As a User, I can collect my reports.                         | 10           | Medium   | Rajasekar V<br>Ragul M<br>Nandhakumar<br>Pradeesh S |

**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            | Rajasekar V<br>Ragul M<br>Nandhakumar<br>Pradeesh S |
| Sprint-3      | Logic building                       | USN-11                   | I need to use machine learning algorithms like random forest classifiers to analyse the datasets. | 10                  | High            | Rajasekar V<br>Ragul M<br>Nandhakumar<br>Pradeesh S |
| Sprint-4      | Front End                            | USN-12                   | I need to create the front end using html,css.  | 10                  | Medium          | Rajasekar V<br>Ragul M<br>Nandhakumar<br>Pradeesh S |

**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)

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

### 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>