# **Project Planning Phase**

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

| Date          | 18 October 2022  |
|---------------|--|
| Team ID       | PNT2022TMID08567   |
| 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

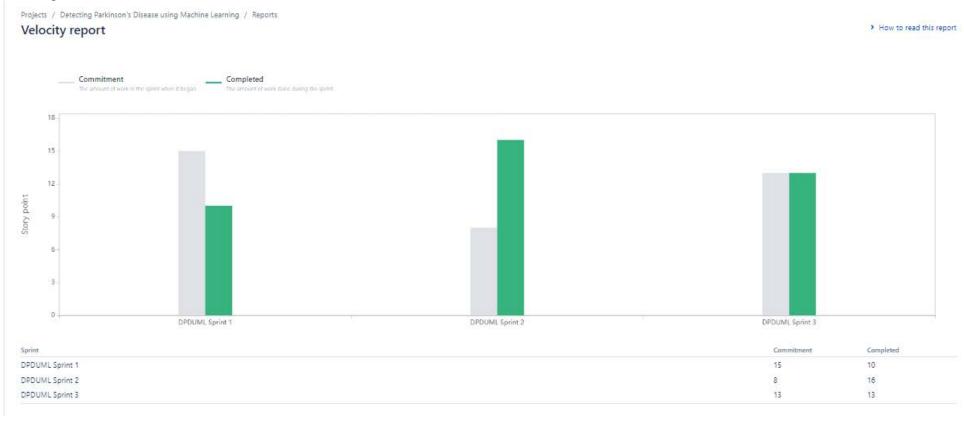
| Sprint   | Functional Requirement (Epic) | User Story<br>Number | User Story / Task   | Story Points | Priority | Team<br>Members                       |
|----------|-------------------------------|----------------------|---|--------------|----------|---------------------------------------|
| Sprint-4 | Viewing Home Page             | USN-1                | As a user, I can view the home page which has a description of the disease as well as options to sign up or log in.           | 2            | Low      | Reena<br>Reemaa<br>Yuvasri            |
| Sprint-4 | Sign Up Page                  | USN-2                | As a user, I can register for the application by entering my name, phone number, email, password, and confirming my password. | 2            | High     | Reemaa<br>Reena<br>Yuvasri<br>Nithish |
| Sprint-4 | Authorization                 | USN-3                | As a user, I will receive confirmation email once I have registered for the application.                                      | 2            | High     | Reemaa<br>Reena<br>Yuvasri<br>Nithish |
| Sprint-4 | Login                         | USN-4                | As a user, I can log into the application by entering email & password.   | 2            | High     | Reemaa<br>Reena<br>Yuvasri<br>Nithish |
| Sprint-4 | Dashboard                     | USN-5                | As a user, I can upload images of spiral and wave to the website in order to receive a diagnosis.                             | 2            | High     | Reemaa<br>Reena<br>Yuvasri<br>Nithish |
| Sprint-4 | Results                       | USN-6                | As a user, I can receive a diagnosis in addition to recommendations on what I should do now.                                  | 2            | High     | Reemaa<br>Reena                       |

| Sprint   | Functional Requirement (Epic) | User Story<br>Number | User Story / Task  | Story Points | Priority | Team<br>Members                       |
|----------|-------------------------------|----------------------|--|--------------|----------|---------------------------------------|
|          |                               |                      |  |              |          | Yuvasri<br>Nithish                    |
| Sprint-1 | Data Collection               | USN-7                | I need to collect data (images of spirals and waves drawn by healthy people and Parkinson's patients).   | 5            | High     | Reemaa<br>Reena<br>Yuvasri<br>Nithish |
| Sprint-1 | 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. | 5            | High     | Reemaa<br>Reena<br>Yuvasri<br>Nithish |
| Sprint-2 | Model Building 1              | USN-9                | I need to build the model using Random Forest Classifier for spiral images.  | 8            | High     | Reemaa<br>Reena<br>Yuvasri<br>Nithish |
| Sprint 2 | Model Building 2              | USN-10               | I need to build the model using K Nearest Neighbour (KNN) for wave images.   | 8            | High     | Reemaa<br>Reena<br>Yuvasri<br>Nithish |
| Sprint-3 | Model Deployment              | USN-11               | I need to deploy the Machine Learning model that was built.  | 13           | Medium   | Reemaa<br>Reena<br>Yuvasri<br>Nithish |
| Sprint-4 | Application Building          | USN-12               | I need to build the website for the application using HTML, CSS and link it to the model.  | 8            | High     | Reemaa<br>Reena<br>Yuvasri<br>Nithish |

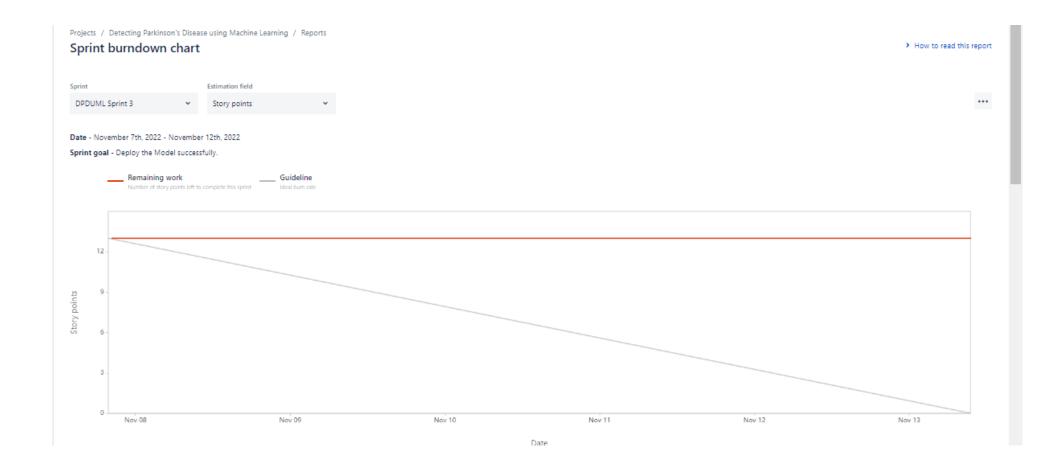
Project Tracker, Velocity & Burndown Chart: (4 Marks)

| Sprint   | Total Story<br>Points | Duration | Sprint Start Date | Sprint End Date<br>(Planned) | Story Points Completed (as on Planned End Date) | Sprint Release Date<br>(Actual) |
|----------|-----------------------|----------|-------------------|------------------------------|---|---------------------------------|
| Sprint-1 | 10                    | 6 Days   | 24 Oct 2022       | 29 Oct 2022                  | 10  | 29 Oct 2022                     |
| Sprint-2 | 16                    | 6 Days   | 31 Oct 2022       | 05 Nov 2022                  | 16  | 05 Nov 2022                     |
| Sprint-3 | 13                    | 6 Days   | 07 Nov 2022       | 12 Nov 2022                  | 13  | 12 Nov 2022                     |
| Sprint-4 | 20                    | 6 Days   | 14 Nov 2022       | 19 Nov 2022                  |   |                                 |
|          |                       |          |                   |                              |   |                                 |
|          |                       |          |                   |                              |   |                                 |
|          |                       |          |                   |                              |   |                                 |
|          |                       |          |                   |                              |   |                                 |

## Velocity:



#### **Burndown Chart:**



#### 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