

## Project Planning Phase

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

|               |   |
|---------------|---|
| Date          | 08 November 2022  |
| Team ID       | PNT2022TMID36980  |
| Project Name  | Fertilizer Recommendation system for disease prediction |
| 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 Number | User Story / Task   | Story Points | Priority | Team Members   |
|----------|-------------------------------|-------------------|---|--------------|----------|--|
| Sprint-1 | Data Collection               | USN-1             | Collecting dataset for pre-processing                                 | 10           | High     | Praveen PV<br>Bodapati Revanth<br>Yenuguala Jaswanth<br>Bijjam Chandra Mouli |
| Sprint-1 |                               | USN-2             | Data pre-processing-Used to transform the data into useful format.    | 10           | Medium   | Praveen PV<br>Bodapati Revanth<br>Yenuguala Jaswanth<br>Bijjam Chandra Mouli |
| Sprint-2 | Model Building                | USN-3             | Model building for fruit and vegetable disease prediction             | 10           | High     | Praveen PV<br>Bodapati Revanth<br>Yenuguala Jaswanth<br>Bijjam Chandra Mouli |
| Sprint-2 |                               | USN-4             | Splitting the data into training and testing from the entire dataset. | 10           | Medium   | Praveen PV<br>Bodapati Revanth<br>Yenuguala Jaswanth                         |

|          |                            |       |   |    |        |  |
|----------|----------------------------|-------|---|----|--------|--|
|          |                            |       |   |    |        | Bijjam Chandra Mouli   |
| Sprint-3 | Training and Testing       | USN-5 | Training the model and testing the performance of the model | 20 | Medium | Praveen PV<br>Bodapati Revanth<br>Yenuguala Jaswanth<br>Bijjam Chandra Mouli |
| Sprint-4 | Implementation of Web page | USN-6 | Implementing the web page for collecting the data from user | 10 | High   | Praveen PV<br>Bodapati Revanth<br>Yenuguala Jaswanth<br>Bijjam Chandra Mouli |
| Sprint-4 |                            | USN-6 | Deploying the model using IBM Cloud and IBM Watson Studio   | 10 | Medium | Praveen PV<br>Bodapati Revanth<br>Yenuguala Jaswanth<br>Bijjam Chandra Mouli |

**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  | 03 NOV 2022                  |
| Sprint-2 | 20                 | 6 Days   | 31 Oct 2022       | 05 Nov 2022               |   |                              |
| Sprint-3 | 20                 | 6 Days   | 07 Nov 2022       | 12 Nov 2022               |   |                              |
| Sprint-4 | 20                 | 6 Days   | 14 Nov 2022       | 19 Nov 2022               |   |                              |

**Velocity:**

Sprint 1 Average Velocity: Average  
Velocity =  $20/2 = 10$

Sprint 2 Average Velocity: Average  
Velocity =  $20/2 = 10$

Sprint 3 Average Velocity: Average  
Velocity =  $20/1 = 20$

Sprint 4 Average Velocity: Average  
Velocity =  $20/2 = 10$

### Burndown Chart:

