

## Project Planning Phase

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

|               |   |
|---------------|---|
| Date          | 18 October 2022                           |
| Team ID       | PNT2022TMID00204                          |
| Project Name  | Project – Nutrition Assistant Application |
| 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 | Registration                    | USN-1             | As a user, I can register for the application by entering my name, age, gender, email, password, and confirming my password. | 2            | High     | Upassini Na  |
| Sprint-1 | Registration                    | USN-2             | As a user, I will receive confirmation email once I have registered for the application                                      | 2            | Medium   | Sneka A      |
| Sprint-1 | Profile Updating                | USN-3             | As a user, I have to enter my height, weight and daily activity details  | 1            | High     | Sasikala V   |
| Sprint-2 | Login                           | USN-4             | As a user, I can log into the application through Gmail with login credentials   | 1            | Medium   | Sowmiya K    |
| Sprint-2 | Database                        | USN-5             | As a user, I can upload or capture live image of the meal  | 1            | High     | Upassini Na  |
| Sprint-2 | Dashboard                       | USN-6             | As a user, I can track my daily calories intake  | 2            | Medium   | Sneka A      |
| Sprint-3 | Maintaining details of the user | USN-7             | Maintaining details for users  | 1            | High     | Sasikala V   |
| Sprint-4 | Security                        | USN-8             | As a user, I feel the site is very secure  | 1            | High     | Sowmiya K    |

**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 burndown 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 can be applied to any project containing measurable progress over time.

| Sprint number    | Day 0 | Day 1   | Day 2   | Day 3 | Day 4   | Day 5   | Day 6 |
|------------------|-------|---------|---------|-------|---------|---------|-------|
| Sprint - 1       | 20    | 0       | 10      | 5     | 3       | 1       | 1     |
| Sprint - 2       | 20    | 2       | 10      | 4     | 1       | 1       | 2     |
| Sprint - 3       | 20    | 5       | 5       | 5     | 5       | 0       | 0     |
| Sprint - 4       | 20    | 3       | 3       | 3     | 3       | 3       | 5     |
| Remaining effort | 80    | 70      | 42      | 25    | 13      | 8       | 0     |
| Ideal effort     | 80    | 66.6667 | 53.3333 | 40    | 26.6667 | 13.3333 | 0     |

