# Project Planning Phase

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

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|---|---|
| Date | 28 October 2022 |
| Team ID | PNT2022TMID13870 |
| Project Name | Project - AI-Powered Nutrition Analyzer for Fitness Enthusiasts |
| Maximum Marks | 8 Marks |

**Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

| 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 name and a strong password. | 2 | High | Harini T, Akhila B |
| Sprint-1 | Login | USN-2 | As a user, I can login to application by entering username and password. | 2 | High | Hemalatha M A, Kaneshka Sre R S |
| Sprint-2 | Upload images of digital document | USN-3 | As a user, I can input the fruit images into the application's document | 1 | Medium | Harini T, Hemalatha M A |
| Sprint-2 | Prediction | USN-4 | As a user, I can predict the image | 1 | Low | Akhila B |
| Sprint-3 | Upload the fruit images dataset | USN-5 | As a user, I can input the fruit of my choice that I want to know about. | 1 | Medium | Harini T, Kaneshka Sre R S |
| Sprint-3 | Recognize fruit | USN-6 | As a user, I can choose the fruit type | 1 | Low | Hemalatha M A |
| Sprint-4 | Recognize fruit type | USN-7 | As a user, I can recognize the selected fruit in the output and recognize its benefits. | 2 | High | Harini T, Akhila B |
| Sprint-4 | Recognize fruit colour | USN-8 | As a user, I can recognize the fruit colour in the dataset and differentiate it with others. | 2 | High | Hemalatha M A, Kaneshka Sre R S |

**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 | 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)

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

**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.