# Project Planning Phase

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

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|---|---|
| Date | 22 October 2022 |
| Team ID | PNT2022TMID36412 |
| 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 | Setting up application environment | USN-1 | Create a sample flask project | 5 | High | Pavithra.P, Swetha Kumari.S, Mahalakshmi.S,Pavithra.V,subashini.B |
| Sprint-1 | | USN-2 | Create IBM cloud account and install IBM cloud CLI | 4 | High | Pavithra.V, Subashini.B,Swetha kumari.S,Mahalakshmi.S,Pavithra.P |
| Sprint-1 | | USN-3 | Installation of docker CLI | 5 | Medium | Pavithra.V, Pavithra.P, Subashini.B,Swetha kumari.S,Mahalakshmi.S |
| Sprint-1 | | USN-4 | Create an account in sendgrid and nutritional API | 5 | High | Pavithra.V,Swetha Kumari.S, Mahalakshmi.S,Pavithra.P ,Subashini.B |
| Sprint-2 | Register and Login | USN-5 | As a user I can register and login into my web application | 5 | High | Pavithra.P, Subashini.B Pavithra.V |
| Sprint-2 | Upload and prediction | USN-6 | As a user I can upload the food item images and also can predict the nutritional content result of the food items | 4 | Medium | Mahalakshmi.S, Pavithra.V Subashini.B |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-2 | Database connectivity | USN-7 | Create cloud Db2 service and connect with python | 3 | Low | Subahsini.B, Mahalakshmi.S, Pavithra.P |
| Sprint-2 | Integrate nutrition API | USN-8 | Integrate the flask with API call | 4 | Medium | Pavithra.V,Swetha kumari.S |
| Sprint-1 | Service Request | USN-9 | As a user I can request to display nutrition content of food items | 5 | High | Swetha Kumari.S, Pavithra.V |
| Sprint-2 | | USN-10 | As a user I can request to suggest a diet plan according to my medical details | 4 | High | Swetha Kumari.S |
| Sprint-3 | Integrating sendgrid | USN-11 | Integrate the sendgrid with python code | 4 | Medium | Pavithra.V, Pavithra.P |
| Sprint-3 | Notification | USN-12 | track the status of diet targets through a dashboard or email services | 3 | Low | Swetha Kumari.S, Mahalakshmi.S |
| Sprint-3 | | USN-13 | As a user get an email about revised exercise routines based on recent records. | 3 | Medium | Pavithra.V, Mahalakshmi .S |
| Sprint-1 | | USN-14 | A user noticed after successfully achieved the target workout | 5 | High | Pavithra.P, Swetha Kumari.S |
| Sprint-4 | | USN-15 | Upload Progress Reports | 3 | Low | Swetha Kumari.S, Subashini.B |
| Sprint-4 | | USN-16 | Making UI more interactive | 2 | Low | Pavithra.P |
| Sprint-2 | | USN-17 | As a user I give feedback | 4 | High | Pavithra.V |
| Sprint-4 | Deployable phase of the application | USN-18 | Containirize the app and send image to it | 4 | High | Swetha kumari.S,Subashini.S |
| Sprint-4 | | USN-19 | Deploy the application in Kuberenetes | 5 | High | Pavithra.V,Swetha kumari.S,Pavithra.P,Subashini.B,Mahalakshmi.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 | 25 Oct 2022 | 30 Oct 2022 | 20 | 30 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 04 Nov 2022 | 20 | 04 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 05 Nov 2022 | 10 Nov 2022 | 20 | 10 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 11 Nov 2022 | 16 Nov 2022 | 20 | 17 Nov 2022 |

## Velocity:

To calculate the team's average velocity(AV) per iteration unit

$$Av = \frac{Velocity}{Sprint\ duration}$$

Where,

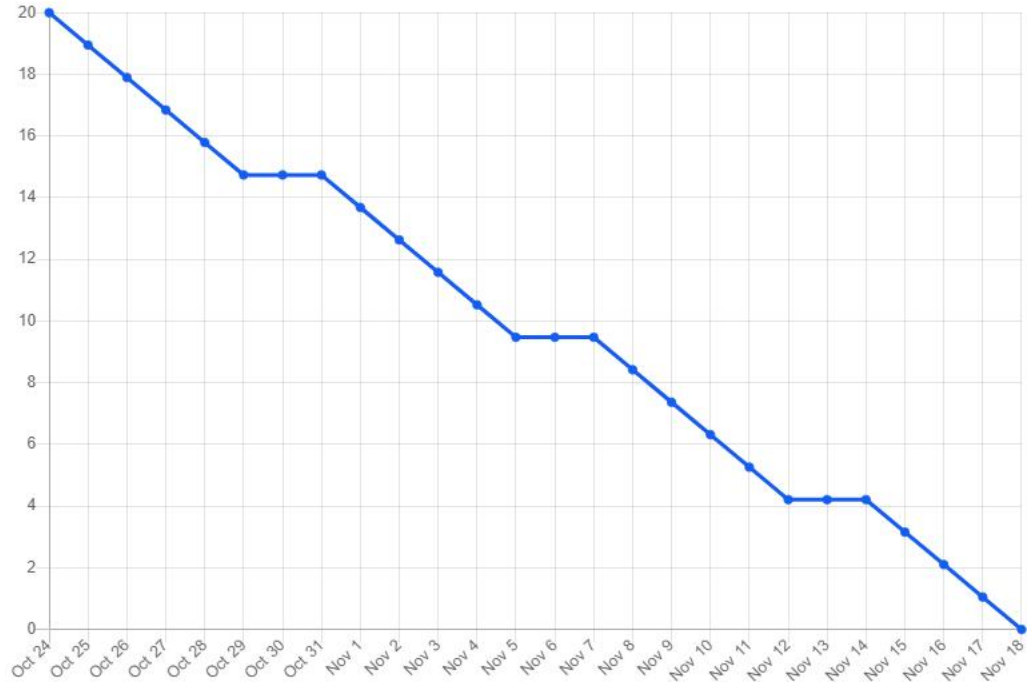
- **Average Velocity -** Story points per day
- **Sprint duration -** Number of days (duration for sprints)
- **Velocity -** Points per sprint
- **Av = $\frac{20}{5} = 4$**

**=>** Average velocity is 4 points per sprint

## 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 down chart can be applied to any project containing measurable progress over time.

Burndown Chart

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