<div align="center">

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

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| Date | 22/10/2022 |
|---|---|
| Team ID | PNT2022TMID05483 |
| 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 | Setting Up Application Environment | USN-1 | To create lots of environment. Create or Enrolment to the IBM cloud, Docker CLI installation, create an account in SendGrid and Nutrition API, etc., | 20 | High | Sivapriya H Gopinaresh B Saravanan R Devaraj M |
| Sprint-2 | Implementing Web Application | USN-2 | We create a UI to interact with application. Create database system DB2 and connect it with python and integrate with Nutrition API. | 20 | High | Sivapriya H Gopinaresh B Saravanan R Devaraj M |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|--------|-------------------------------|-------------------|-------------------|--------------|----------|--------------|
| Sprint-3 | Integrating SendGrid Service | USN-3 | SendGrid integration with python code for include some RestAPI services for to give a Nutrition and calorie value. | 20 | High | Sivapriya H Gopinaresh B Saravanan R Devaraj M |
| Sprint-4 | Deployment of App in IBM Cloud | USN-4 | In the deploy process, the deployment in Kubernetes cluster is the major task before that we need to containerize the app and upload image to IBM container Registry | 20 | High | Sivapriya H Gopinaresh B Saravanan R Devaraj M |

**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 | | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | | 12 Nov 2022 |

| 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-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | | 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.

| | | NOV |
|---|---|---|
| **Sprints** | | |
| ⚡ NA-5 Create a Flask Project | ▪ | |
| ⚡ NA-6 Create IBM Cloud Account | ▪ | |
| ⚡ NA-7 Install IBM Cloud CLI | ▪ | |
| ⚡ NA-8 Docker CLI Installation | ▪ | |
| ⚡ NA-9 Create An Account In SendGrid | ▪ | |
| ⚡ NA-10 Create An Account In Nutrition API | ▪ | |
| ⚡ NA-11 Create UI To Interact with Application | ▪ | |
| ⚡ NA-12 Create IBM DB2 And Connect With Python | | ▪ |
| ⚡ NA-13 Integrate Nutrition API | | ▪ |
| ⚡ NA-14 SendGrid Integration With Python Code | | ▪ |
| ⚡ NA-15 Containerize The App | | ▪ |
| ⚡ NA-16 Upload Image To IBM Container Registry | | ▪ |
| ⚡ NA-17 Deploy In Kubernetes Cluster | | ▪ |