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

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|---|---|
| Date | 18 October 2022 |
| Team ID | PNT2022TMID32693 |
| Project Name | Project –AI powered nutrition analyzer for fitness enthusiasts |
| 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 email, password, and confirming my password. | 2 | High | Varun,Thirumaal,sundar Veerabala |
| Sprint-1 | | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 1 | High | Varun,Thirumaal,sundar Veerabala |
| Sprint-2 | | USN-3 | As a user, I can register for the application through Facebook | 2 | Low | Varun,Thirumaal,sundar Veerabala |
| Sprint-1 | | USN-4 | As a user, I can register for the application through Gmail | 2 | Medium | Varun,Thirumaal,sundar Veerabala |
| Sprint-1 | Login | USN-5 | As a user, I can log into the application by entering email & password | 1 | High | Varun,Thirumaal,sundar Veerabala |
| | Database | | The information are stored in IBM DB2 | | | |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|--------|------|------|------|------|------|------|
| Sprint-2 | Dataset collection | USN-6 | Development of the model with the prepared data set | 2 | low | Varun,Thirumaal,sundar Veerabala |
| Sprint-2 | Image processing | USN-7 | Apply image datagenerator functionality to trainset and testset | 3 | medium | Varun,Thirumaal,sundar Veerabala |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|--------|------|------|------|------|------|------|
| Sprint-3 | Model building | USN-8 | Train the model and add necessary layers in jupyter notebook | 4 | high | Varun,Thirumaal,sundar Veerabala |
| Sprint-3 | Applicaton building | Usn-9 | Create html pages and build python code and create flask application to load our model | 5 | high | Varun,Thirumaal,sundar Veerabala |
| Sprint-4 | User image analysis | Usn-10 | As user can upload the image of fruits can be identified and it can give its nutrtion | 5 | high | Varun,Thirumaal,sundar Veerabala |
| Sprint-4 | Train the model on IBM | Usn-11 | Deploy the application in ibm cloud | 5 | high | Varun,Thirumaal,sundar Veerabala |

| Sprint-4 | User diet plan | Usn-12 | It shows the diet plan chart | 4 | medium | Varun,Thirumaal,sundar Veerabala |

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

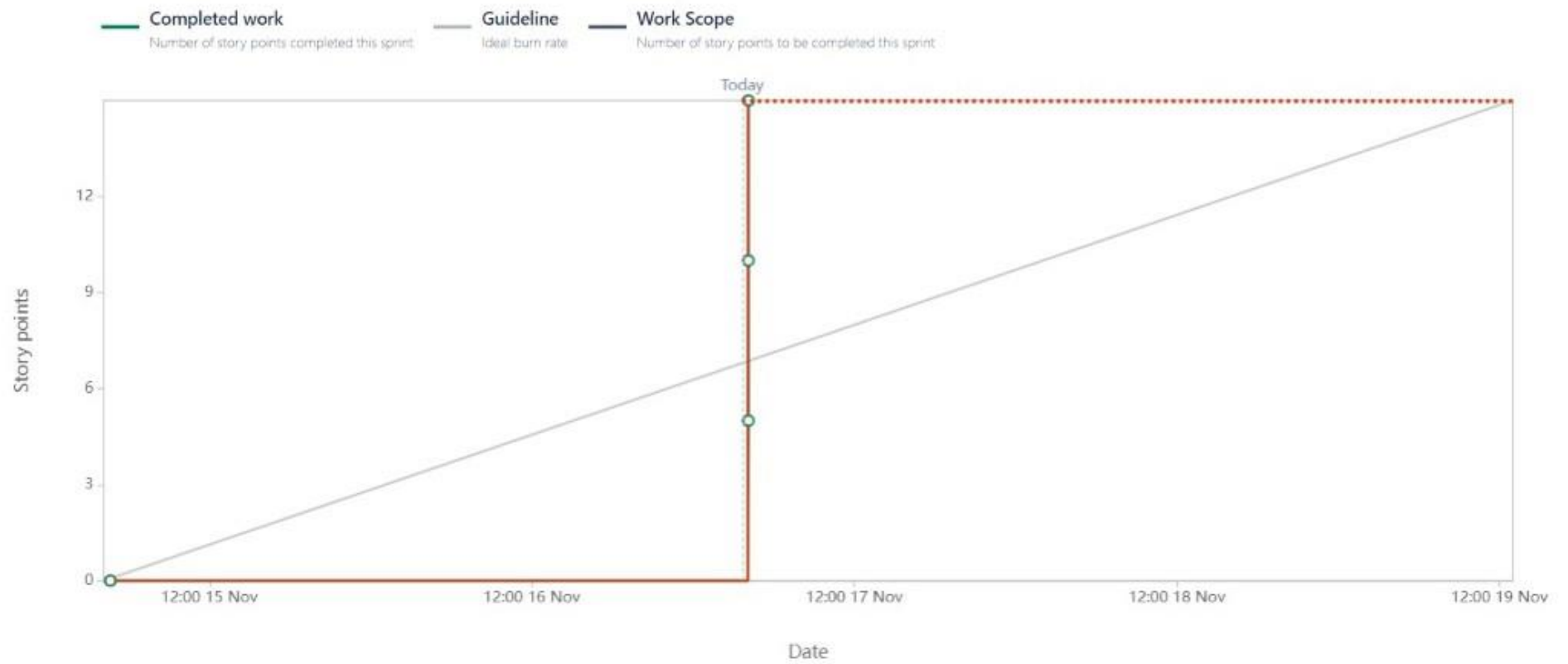| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed (as on Planned End Date) | Sprint Release Date (Actual) |
|---|---|---|---|---|---|---|
| Sprint-1 | 20 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | | |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | | |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | | |
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**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.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts

**Reference:**

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

https://www.atlassian.com/agile/tutorials/burndown-charts