

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID15871
Project Name	Estimate the crop yield using data analytics
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	Khyathi Greeshmitha
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	2	High	Lahari
Sprint-1		USN-3	As a user, I can register for the application through Facebook	1	Low	Prasanna Vyshnavi
Sprint-1		USN-4	As a user, I can register for the application through Gmail	1	Medium	Greeshmitha Khyathi
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	2	High	Greeshmitha Khyathi Prasanna
Sprint-2	Dashboard	USN-6	As a user, I can visualize the data	2	High	Khyathi Greeshmitha
Sprint-3	Code and test cases	USN-7	Source code(python) is integrated into jupyter notebook(anaconda navigator)	2	High	Greeshmitha Khyathi
Sprint-4	Final project story	USN-8	Overview of the entire project (including source code)	1	Medium	Prasanna Lahari Vyshnavi

**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)

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

### 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.

