

## Project Planning Phase

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

Date	20 October 2022
Team ID	PNT2022TMID37430
Project Name	Project - Estimate the Crop Yield using Data Analytics
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 my email, password, and confirming my password.	2	High	Suhail, Faiz Ali, Salman, Vanchi
Sprint-1	Registration	USN-2	As a user, I will receive confirmation email once I have registered for the application	3	High	Suhail, Faiz Ali, Salman, Vanchi
Sprint-1	Registration	USN-3	As a user, I can register for the application through Gmail	1	Low	Suhail, Faiz Ali, Salman, Vanchi
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password	2	Medium	Suhail, Faiz Ali, Salman, Vanchi
Sprint-2	Dashboard	USN-5	As a user, I can enter my crop yield data to clean and prepare it for analysis	2	High	Suhail, Faiz Ali, Salman, Vanchi
Sprint-2	Dashboard	USN-6	As a user, I can identify trends in the data and make visualisations	2	High	Suhail, Faiz Ali, Salman, Vanchi
Sprint-2	Dashboard	USN-7	As a user, I can conduct crop yield analysis to make estimation	2	High	Suhail, Faiz Ali, Salman, Vanchi
Sprint-3	Customer Care	USN-8	As a Customer Care Executive, I can answer users' queries	2	Low	Suhail, Faiz Ali, Salman, Vanchi
Sprint-4	Administrator	USN-9	As an admin, I can make changes to the interface according the needs	4	High	Suhail, Faiz Ali, Salman, Vanchi

**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	8	6 Days	24 Oct 2022	29 Oct 2022	8	29 Oct 2022
Sprint-2	6	6 Days	31 Oct 2022	05 Nov 2022	6	05 Nov 2022
Sprint-3	2	6 Days	07 Nov 2022	12 Nov 2022	2	12 Nov 2022
Sprint-4	4	6 Days	14 Nov 2022	19 Nov 2022	4	19 Nov 2022

**Velocity:**

The team's average velocity (AV) per iteration unit (story points per day) :

**Sprint 1:**  $AV = \text{Sprint duration} / \text{velocity} = 8/6 = 1.34$

**Sprint 2:**  $AV = \text{Sprint duration} / \text{velocity} = 6/6 = 1$

**Sprint 3:**  $AV = \text{Sprint duration} / \text{velocity} = 2/6 = 0.34$

**Sprint 4:**  $AV = \text{Sprint duration} / \text{velocity} = 4/6 = 0.67$

