

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID39098
Project Name	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	1	As a user, I can register for by entering my Crop yield - id card and request.	2	High	Dhivagar S
		2	As a user, I can register for the application through G mail	2	Medium	Prabakaran A
	Login	3	As a user, I can Call and request or Approach for dataset	2	High	Thirunalai M
	Working with the Dataset	4	To work on the given dataset, Understand the Dataset.	2	High	Praveen kumar R
		5	Load the dataset to Cloud platform then Build the requirements Visualizations.	10	High	Prabakaran A
Sprint-2	Data Visualization Chart	6	Using the Crop production in Indian dataset, create various graphs and charts to highlight the insights and visualizations. *Build a Visualization to showcase Average Crop Production by Seasons.	4	Medium	Dhivagar S
			*Showcase the Yearly usage of Area in Crop Production.	4	Medium	Thirumalai M

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
			Build a visualization to show case top 10 States in Crop Yield Production by Area.	4	Medium	Praveen kumar R
			Build the required Visualization to showcase the Crop Production by State.	4	Medium	Prabakaran A
			Build Visual analytics to represent the Sates with Seasonal Crop Production using a Text representation.	4	Medium	Dhivagar s Thirumalai M
Sprint-3	Creating The dashboard	7	Create the Dashboard by using the created visualizations.	20	High	Praveen kumar R Dhivagar S Prabakaran A Thirumalai M
Sprint-4	Export The Analytics	8	Export the created Dashboard	20	High	Prabakaran A Praveen kumar R Dhivagar S

### Project Tracker, Velocity & Burndown Chart:

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:

We have a 24-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)

$$AV = \text{Sprint Duration} / \text{Velocity} = 24 / 20 = 1.2$$

**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.

**Burndown Chart**

