Project Planning Phase
Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	19 October 2022
Team ID	PNT2022TMID53846
Project Name	Estimate The Crop Yield Using Data Analytics
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

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 by entering my Agri - id card and request..	2	High	Janaki Aishwariya Angelin Shiny Blessy Mathalin
		USN-3	As a user, I can register for the application through Gmail	2	Medium	Janaki Aishwariya Angelin Shiny
	Login	USN-4	As a user, I can Call and request or Approach for dataset	4	High	Janaki Aishwariya Mathalin
	Working with the Dataset	USN-5	To work on the given dataset, Understand the Dataset.	2	High	Blessy Mathalin
		USN-6	Load the dataset to Cloud platform then Build the required Visualizations.	10	High	Janaki Aishwariya Angelin Shiny Blessy Mathalin
Sprint-2	Data Visualization Chart	USN-7	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	High	Angelin Shiny Blessy
			*Showcase the Yearly usage of Area in Crop Production.	4	Medium	Angelin Shiny Janaki Aishwariya

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	Blessy Mathalin
			Build the required Visualization to showcase the Crop Production by State.	4	Medium	Angelin Shiny Blessy
			Build Visual analytics to represent the Sates with Seasonal Crop Production using a Text representation.	4	Medium	Janaki Aishwariya Mathalin
Sprint-3	Creating The dashboard	USN-8	Create the Dashboard by using the created visualizations.	20	High	Angelin Shiny Mathalin
Sprint-4	Export The Analytics	USN-9	Export the created Dashboard	20	High	Blessy Janaki Aishwariya

Project Tracker, Velocity & Burn down 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	3 Days	20 Oct 2022	23 Oct 2022	20	23 Oct 2022
Sprint-2	20	6 Days	24 Oct 2022	30 Oct 2022	20	30 Oct 2022
Sprint-3	20	4 Days	01 Nov 2022	04 Nov 2022	20	04 Nov 2022
Sprint-4	20	5 Days	05 Nov 2022	10 Nov 2022	20	10 Nov 2022

Velocity:

We have a 18-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)

$$AV = \text{Sprint Duration} / \text{Velocity} = 18 / 20 = 0.9$$

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.