Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID15512
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	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Navadeepan H Nandha Krishnan G
		USN-2	As a user, I will receive confirmation email once I have registered for the application	2	High	Pooja Sri R Induja S
		USN-3	As a user, I can register for the application through Gmail	2	Low	Navadeepan H Induja S
	Login	USN-4	As a user, I can log into the application by entering email & password	2	High	Nandha Krishnan G Pooja Sri R

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
	Dashboard Working with the Dataset	USN-5	To work on the given dataset, Understand the Dataset.	2	High	Navadeepan H Pooja Sri R
		USN-6	Load the dataset to Cloud platform then Build the required Visualizations.	10	High	Nandha Krishnan G Induja S
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	Medium	Navadeepan H
			Build a Visualization to Showcase the Yearly usage of Area in Crop Production.	4	Medium	Pooja Sri R
			Build a visualization to showcase top 10 States in Crop Yield Production by Area.	4	Medium	Nandha Krishnan G
			Build the required Visualization to showcase the Crop Production by State.	4	Medium	Induja S
			Build Visual analytics to represent the Sates with Seasonal Crop Production using a Text representation.	4	Medium	Navadeepan H Nandha Krishnan G

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Creating The dashboard	USN-8	Create the Dashboard using the created visualizations.	20	High	Navadeepan H Nandha Krishnan G Pooja Sri R Induja S
Sprint-4	Export The Analytics	USN-9	Export the created Dashboard	20	High	Navadeepan H Nandha Krishnan G Pooja Sri R Induja S

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:
we have a 6-day sprint duration, and the velocity of the team is 20 (points per sprint). So, the average velocity (AV) per iteration unit (story points per day) will be,

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{6} = 3.33$$

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.