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

Date	18 October 2022
Team ID	PNT2022TMID19454
Project Name	Project – Estimate 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 personal details and creating account using username and password.	2	High	Kaviya V N
Sprint-1		USN-2	As a user, After completed the registration I will receive the confirmation message through my registered email id.	1	High	Mahalakshmi R
Sprint-2		USN-3	As a user, I successfully installed the application which is provided.	2	Low	Kavin Kumar G
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	Mahalakshmi R
Sprint-1	Login	USN-5	As a user, I can logged in my account using my username and password.	5	High	Dhivyabrabha M
Sprint-1	Dashboard	USN-6	As a user, I can view and access the information in the dashboard.	1	Medium	kaviya V N

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Building of IBM Cognos analytics	USN-7	Creation of Charts and Graphs	8	High	Kavin Kumar G
Sprint-3	Modelling of Assistant	USN-8	Adding responses to Account Creation/As a user, I can see a Dashboard which helps to create an account.	2	High	Kaviya V N
Sprint-1		USN-9	As a user, I can see a dashboard which helps to solve the queries in crop production.	1	Medium	Mahalakshmi R
Sprint-4		USN-10	As a user, I can see a Dashboard which helps to access charts and graphs.	2	High	Dhivyabrabha M
Sprint-3		USN-11	As a user, I can see a Charts and Graphs which helps to monitor and manage the trending activities in market.	3	Low	Kaviya V N
Sprint-1	Testing & Deployment Phase-I	USN-12	Testing the Dashboard performance with the Administrator.	8	High	Kavin Kumar G
Sprint-2		USN-12	Integration of Flask webpage with the dashboard assistant to provide a framework, As a user, I can see a webpage to access the dashboard.	2	High	Mahalakshmi R

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Deployment Phase-II & Model Improvement	USN-14	Deployment of IBM Cognos analytics based dashboard for crop yield production services/As a user, I can monitor and access the information in the dashboard.	1	Low	Kavin Kumar G
Sprint-1		USN-15	Improving the model efficiency whenever needed/As a user, I can see new updated dashboard in Future days.	2	Moderate	Dhivyabrabha M
Sprint-2	Verification	USN-16	Administrator can completely verify the submitted application.	5	High	Kavin Kumar G
Sprint-3	Approval	USN-17	After completion, new updated dashboard is provided to the customers.	2	High	Kaviya V N

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:

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

$$AV = \frac{sprint\ duration}{velocity} = 20/6 = 3.34$$

Burndown Chart:

BURNDOWN CHART