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

Date	22 October 2022
Team ID	PNT2022TMID46353
Project Name	Project- "Exploratory Analysis Of Rainfall Data In India For Agriculture"
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	Team Lead Team Member1
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Team Member1 Team Member2
Sprint-1		USN-3	As a user, I can register to my application through Gmail	2	Low	Team Member1 Team Member3
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password	1	High	Team Lead Team Member2

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Dashboard	USN-5	The user can able to access the dashboard	2	High	Team Lead Team Member3
Sprint-2	Activity	USN-6	The user gets the details like weather, location and so on	1	Medium	Team Member1 Team Member3
Sprint-3	Algorithm	USN-7	The Machine Learning Algorithm is used to predict rainfall rate	2	Medium	Team Member2 Team Member3
Sprint-4	Prediction	USN-8	The analysis is obtained by rainfall rate at each and every stage	2	High	Team Lead Team Member2

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	31 Oct 2022	20	31 Oct 2022
Sprint-2	20	6 Days	03 Oct 2022	11 Nov 2022	20	11 Nov 2022
Sprint-3	20	6 Days	14 Nov 2022	22 Nov 2022	20	22 Nov 2022
Sprint-4	20	6 Days	25 Nov 2022	02 Dec 2022	20	02 Dec 2022

Velocity:
Imagine we have a 10-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)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

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.