

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID17010
Project Name	Project – EXPLORATORY ANALYSIS OF RAINFALL DATA IN INDIA FOR AGRICULTURE.
Maximum Marks	8 Marks

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

Use the below 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	Rainfall Prediction ML Model (Dataset)	USN-1	Weather Dataset Collection, Data pre-processing, Data Visualization.	5	High	Manikandan, Mariyappan, Meiyazhagan, Jeevanandhan
Sprint-1		USN-2	Train Model using Different machine learning Algorithms	5	High	Manikandan, Mariyappan, Meiyazhagan, Jeevanandhan
Sprint-1		USN-3	Test the model and give best	10	High	Manikandan, Mariyappan, Meiyazhagan, Jeevanandhan
Sprint-2	Registration	USN-4	As a user, they can register for the application through Gmail. Password is set up.	5	Medium	Manikandan, Mariyappan, Meiyazhagan, Jeevanandhan
Sprint-2	Login	USN-5	As a user, they can log into the application by entering email & password	5	Medium	Manikandan, Mariyappan, Meiyazhagan, Jeevanandhan
Sprint-2		USN-6	Credentials should be used for multiple systems and verified	4	Medium	Manikandan, Mariyappan, Meiyazhagan, Jeevanandhan

Sprint-2	Dashboard	USN-7	Attractive dashboard forecasting live weather	6	Low	Manikandan, Mariyappan, Meiyazhagan, Jeevanandhan
Sprint-3	Rainfall Prediction	USN-8	User enter the location, temperature, humidity	10	High	Manikandan, Mariyappan, Meiyazhagan, Jeevanandhan
Sprint-3		USN-9	Predict the rainfall and display the result	10	High	Manikandan, Mariyappan, Meiyazhagan, Jeevanandhan
Sprint-4	Testing	USN-10	Test the application	10	High	Manikandan, Mariyappan, Meiyazhagan, Jeevanandhan
Sprint-4	Deploy Model	USN-11	Deploy the model in IBM cloud to make userfriendly application	10	High	Manikandan, Mariyappan, Meiyazhagan, Jeevanandhan

**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:**

Imagine we have a 5-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)

$$AV = \text{Sprint duration} / \text{Velocity} = 20/5 = 4$$

$$\text{Total Average Velocity} = 4$$