

## Project Planning Phase

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

Date	13 November 2022
Team ID	<b>PNT2022TMID34754</b>
Project Name	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 preprocessing, Data Visualization.	5	High	Ghowdham kalyana sundaram , Yuvaraj bharath
Sprint-1		USN-2	Train Model using Different machine learning Algorithms	5	High	Raksith .R, Nixon christhuraj.
Sprint-1		USN-3	Test the model and give best	10	High	Yuvaraj bharath, Madhu singh.
Sprint-2	Registration	USN-4	As a user, they can register for the application through Gmail. Password is set up.	5	Medium	Raksith.R, Ghowdham kalyana sundaram.
Sprint-2	Login	USN-5	As a user, they can log into the application by entering email & password	5	Medium	Yuvaraj bharath, Raksith.R .
Sprint-2		USN-6	Credentials should be used for multiple systems and verified	4	Medium	Madhu singh , Nixon christhuraj.
Sprint-2	Dashboard	USN-7	Attractive dashboard forecasting live weather	6	Low	Madhu singh , Nixon christhuraj.

Sprint-3	Rainfall Prediction	USN-8	User enter the location, temperature, humidity	10	High	Ghowdham kalyana sundaram , Nixon christhuraj .
Sprint-3		USN-9	Predict the rainfall and display the result	10	High	Yuvaraj bharath, Madhu singh
<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
Sprint-4	Testing	USN-10	Test the application	10	High	Raksith.R, Ghowdham kalyana sundaram.
Sprint-4	Deploy Model	USN-11	Deploy the model in IBM cloud to make user friendly application	10	High	Yuvaraj bharath, Madhu singh

#### 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	31Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-2	20	6 Days	05 Nov 2022	10 Nov 2022	20	10 Nov 2022
Sprint-3	20	6 Days	10 Nov 2022	15 Nov 2022	20	15 Nov 2022
Sprint-4	20	6 Days	15 Nov 2022	21 Nov 2022	20	21 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)

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

Total Average Velocity=4

### 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.

Tool : Jira Software



