

## Project Planning Phase

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

Date	23 October 2022
Team ID	PNT2022TMID10058
Project Name	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	Rainfall Prediction Model	USN-1	Collecting weather dataset, data preprocessing the data and do a data visualization	5	High	Suresh, Thavaprakash
Sprint-1		USN-2	Train rainfall Prediction model using different machine learning algorithms	5	Medium	Sriraja, Surendra
Sprint-1		USN-3	Test the best model and save best model by pickle library	5	High	Sriraja, Surendra
Sprint-1	Crop Recommendation Model	USN-4	Collecting sowing crop dataset, data preprocessing the data and do a data visualization	5	High	Suresh, Thavaprakash
Sprint-1		USN-5	Train crop recommendation model using different machine learning algorithms	5	Medium	Sriraja, Surendra
Sprint-1		USN-6	Test the best model and save best model by pickle library	5	High	Sriraja, Surendra

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Registration	USN-7	User can register for the application by entering his or her email, password, and confirming the password.	5	Medium	Suresh, Thavaprakash
Sprint-2		USN-8	User will receive confirmation email or message once registered for the application	5	Low	Suresh, Thavaprakash
Sprint-2	Login	USN-9	Enter the username and password to login to the application	5	Medium	Suresh, Thavaprakash
Sprint-2		USN-10	The existing credentials should be used for login on multiple systems	5	Medium	Suresh, Thavaprakash
Sprint-2	Dashboard	USN-11	Forecast the today weather	10	Low	Sriraja, Surendra
Sprint-3	Rainfall Prediction	USN-12	User can enter the weather parameters like min temp, max temp, etc	5	High	Surendra, Thavaprakash
Sprint-3		USN-13	Predict the rainfall and display the result	5	High	Sriraja, Suresh
Sprint-3	Crop Recommendation	USN-14	User can enter the soil parameters like nitrogen, ph. value, etc	5	High	Surendra, Thavaprakash
Sprint-3		USN-15	Predict the sowing crop and display the result	5	High	Sriraja, Suresh
Sprint-4	Testing	USN-16	Test the application	10	High	Surendra, Thavaprakash
Sprint-4	Deploy Model	USN-17	deploy the model in IBM cloud to make user friendly application	10	High	Sriraja, Suresh

## 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	30	6 Days	24 Oct 2022	29 Oct 2022	30	30 Oct 2022
Sprint-2	30	6 Days	31 Oct 2022	05 Nov 2022	30	06 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	13 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	20 Nov 2022

### Velocity:

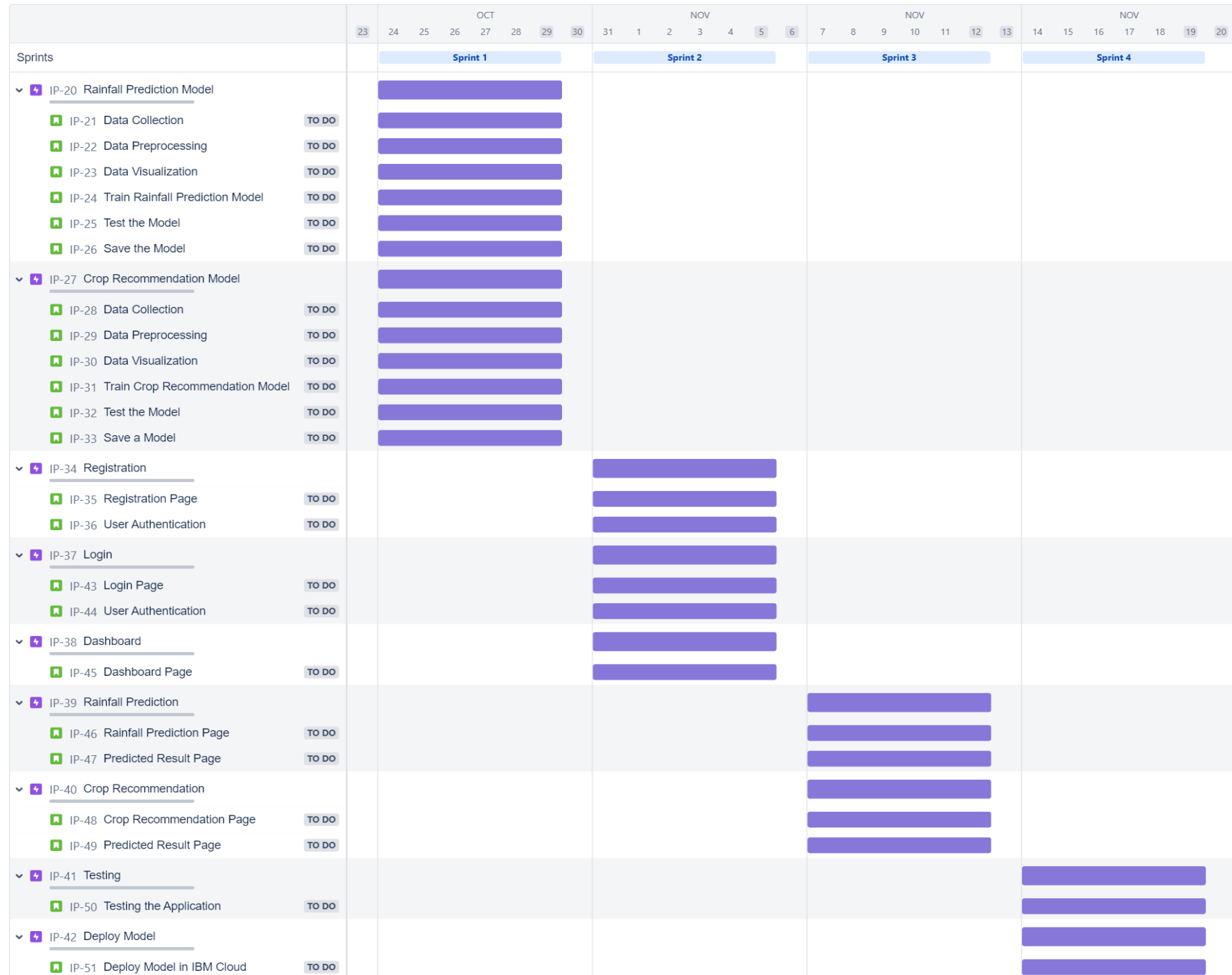
We have a 6-day sprint duration, and the velocity of the team is 20 to 30 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{\text{sprint duration}}{\text{velocity}}$$

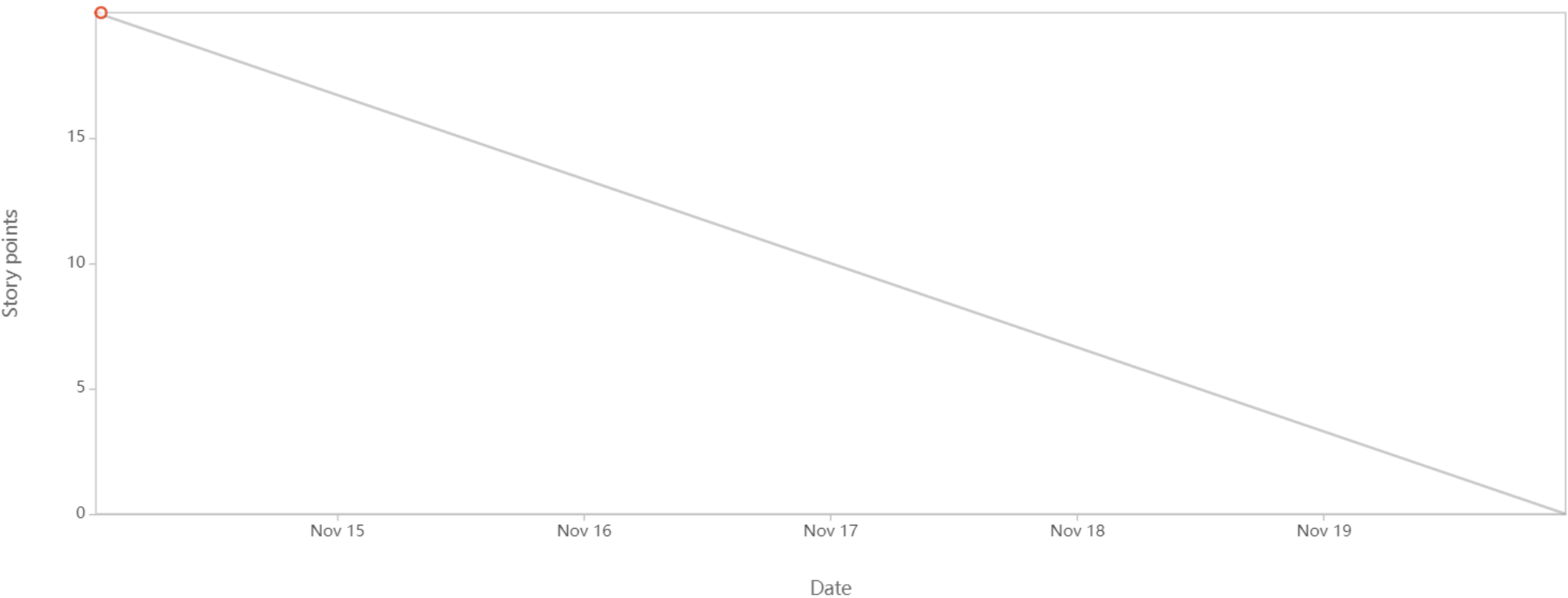
Sprint	Average Velocity
Sprint-1	5
Sprint-2	5
Sprint-3	3.33
Sprint-4	3.33

**Total Average Velocity = 4.16**

## RoadMap



Burndown Chart:



Atlassian link:

<https://srirajab.atlassian.net/jira/software/projects/IP/boards/1/roadmap?shared=&atlOrigin=eyJpIjojNGM3MGMxY2QxZGQyNDRlZjkyMzQ1NTg2NDIiY2JiN2liLCJwIjoiajI9>