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

Date	15th November 2022
Team ID	PNT2022TMID09651
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	Prasanna Phanindran S, Srivathsan G
Sprint-1		USN-2	Train Model using Different machine learning Algorithms	5	High	Prasanna Phanindran S, Srivathsan G
Sprint-1		USN-3	Test the model and give best	10	High	Prasanna Phanindran S, Rohith Amrose R
Sprint-2	Registration	USN-4	As a user, they can register for the application through Gmail. Password is set up.	5	Medium	Srivathsan G, Raghul S
Sprint-2	Login	USN-5	As a user, they can log into the application by entering email & password	5	Medium	Rohith Amrose R, Raghul S

Sprint-2		USN-6	Credentials should be used for multiple systems and verified	4	Medium	Raghul S, Rohith Amrose
Sprint-2	Dashboard	USN-7	Attractive dashboard forecasting live weather	6	Low	Prasanna Phanindran S, Srivathsan G
Sprint-3	Rainfall Prediction	USN-8	User enter the location, temperature, humidity	10	High	Srivathsan G, Rohith Amrose R
Sprint-3		USN-9	Predict the rainfall and display the result	10	High	Prasanna Phanindran S, Raghul S

Sprint	**Functional Requirement (Epic)**	**User Story Number**	**User Story / Task**	**Story Points**	**Priority**	**Team Members**
Sprint-4	Testing	USN-10	Test the application	10	High	Rohith Amrose R, Raghul S
Sprint-4	Deploy Model	USN-11	Deploy the model in IBM cloud to make user friendly application	10	High	Prasanna Phanindran S, Srivathsan G

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	14 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	18 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)

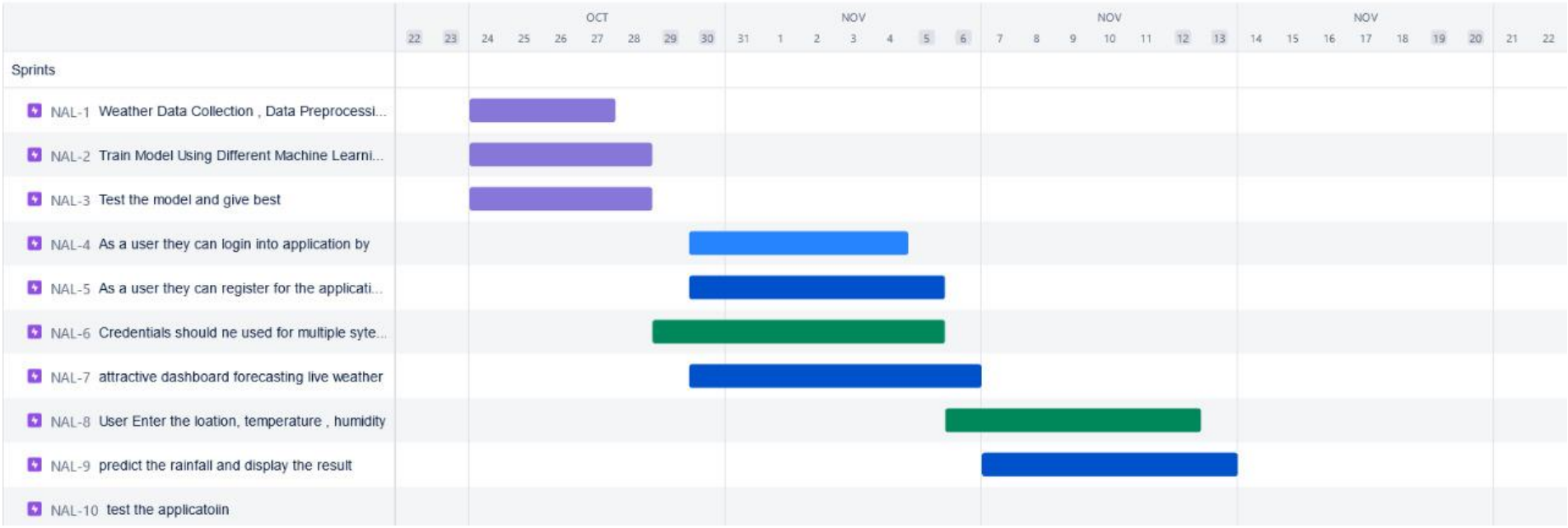
AV= Sprint duration/ Velocity = 20/5 =4

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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Sprints
NAL-1 Weather Data Collection , Data Preprocessi...
NAL-2 Train Model Using Different Machine Learni...
NAL-3 Test the model and give best
NAL-4 As a user they can login into application by
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NAL-7 attractive dashboard forecasting live weather
NAL-8 User Enter the loation, temperature , humidity
NAL-9 predict the rainfall and display the result
NAL-10 test the applicatoiin