Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID17878
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,	5	High	R.Niveditha, V.Shanu
Sprint-1		USN-2	Datapreprocessing, Data Visualization.	5	High	V.Revathi, N.Sabari Sree
Sprint-1		USN-3	Train Model using Different machine learningAlgorithms	10	High	R.Niveditha, V.Revathi
Sprint-1		USN-4	Test the model and give best	5	Medium	N.Sabari Sree, V.Shanu
Sprint-2	Rainfall prediction	USN-5	User enter the location, temperature, humidity	10	High	V.Revathi, V.Shanu
Sprint-2		USN-6	Predict the rainfall and display the result	10	Medium	R.Niveditha, V.Revathi
Sprint-3	Crop prediction	USN-7	Predict the rainfall	10	High	N.Sabari Sree, V.Revathi
Sprint-3		USN-8	Suggest the crop for high productivity	10	High	V.Shanu, R.Niveditha
Sprint-4	Testing	USN-9	Test the application	10	High	V.Revathi, N.Sabari Sree
Sprint-4	Deploy model	USN-10	Deploy the model in IBM cloud to make userfriendly application	10	High	R.Niveditha, V.Shanu

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	_	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	_	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	_	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	_	19 Nov 2022

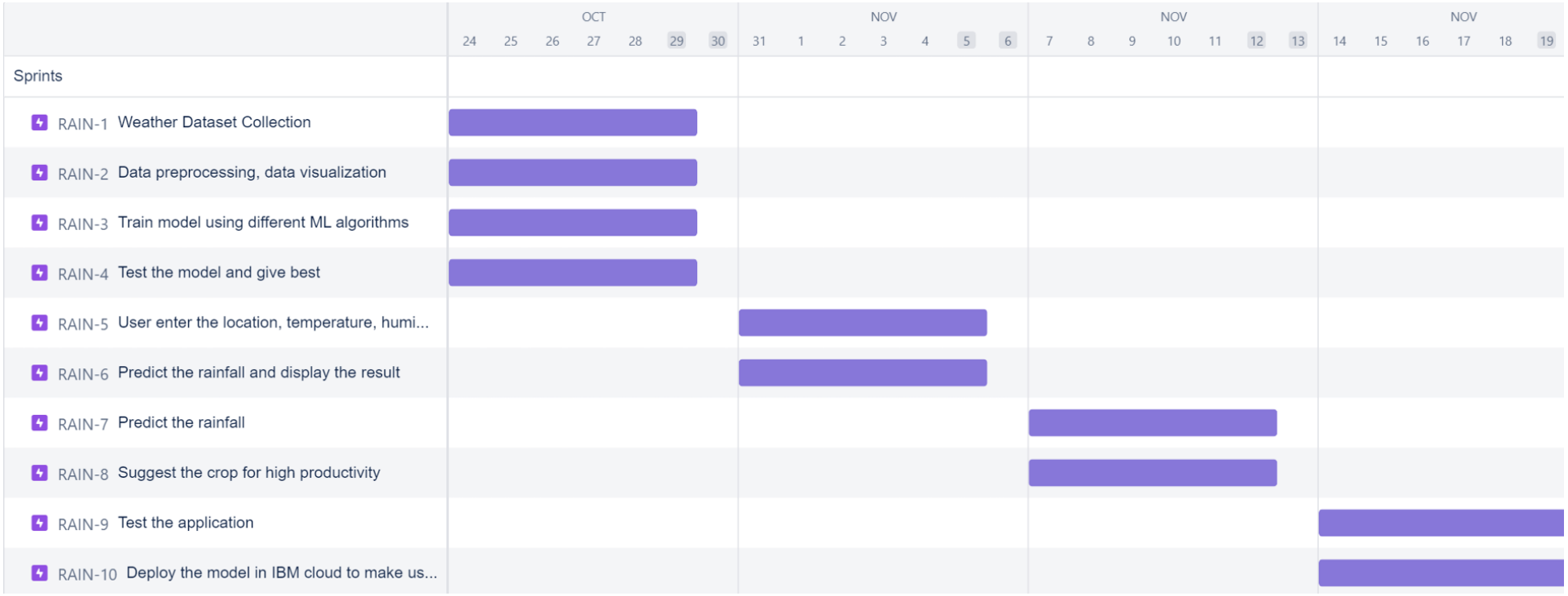
Velocity:

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.



https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts