Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID28033
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	Working with Dataset	USN-1	To download and import the dataset along with necessary libraries	5	High	Bharathwaj N
		USN-2	To analyze the data and handle missing data	5	Low	Charan K
		USN-3	To perform data visualization and find dependent and independent features	5	Medium	Immanuel L
		USN-4	To perform feature scaling and split dataset into train and test	5	High	Aashik Mathew P
Sprint-2	Model Decision	USN-5	To train and test different models and find the accuracy	10	Medium	Aashik Mathew P, Immanuel L
		USN-6	To perform model evaluation based on different evaluation metrics and saving the model	10	Medium	Bharathwaj N, Charan K
Sprint-3	Building web application	USN-7	Creating a web page for content display	10	High	Harish M, Aashik Mathew P
		USN-8	Creating python script for prediction and rendering to web page	10	High	Charan K, Immanuel L

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Export Application	USN-9	Run and export the application	20	High	Bharathwaj N, Aashik Mathew P, Charan K, Immanuel L, Harish M

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	5 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 10-day sprint duration. 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 "burndown 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, burndown charts can be applied to any project containing measurable progress over time.