Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID12583
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	Basic Form Template	USN-1	Develop a simple html file with a basic form where users can provide their inputs like they can select their region of interest, wind direction etc.	5	High	Vigneshwar, Srivathssan
Sprint-1	Auto Fill Inputs	USN-2	The input fields must be auto filled If the user is not sure about the values given the region	6	High	Vignesh A, Vignesh M
Sprint-1	Basic Flask Server	USN-3	A basic flask server that has all the necessary routes and integrated with the website	5	Medium	Vigneshwar, Srivathssan
Sprint- 2	Model Building and Testing	USN-4	Construct Machine Learning models trained on the pre-processed dataset and observe their accuracy. Save the Models as .pkl file	5	High	Vikneshwar, Srivathssan
Sprint- 2	Design the website and add all required pages	USN-5	Develop Website with all the required pages	6	High	Vignesh A, Vignesh M
Sprint - 2	Add Recommended Features	USN - 6	Recommend best practises based on the rainfall	5	Medium	Vikneshwar, Srivathssan

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint – 3	Visualisation	USN – 7	Add Visualisation for rainfall data across all the states in India	8	High	Vignesh A, Vignesh M
Sprint - 3	Auto Update Model	USN -8	Update the ML model with the updated dataset	8		Vikneshwar, Srivathssan

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	16	8 Days	24 Oct 2022	01 Nov 2022	15	03 Nov 2022
Sprint-2	16	8 Days	02 Nov 2022	10 Nov 2022	15	10 Nov 2022
Sprint-3	16	8 Days	11 Nov 2022	19 Nov 2022	15	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)

$$AV = \text{Sprint Duration} / \text{Velocity}$$

$$Av = 16 / 8 = 2$$