Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID10661
Project Name	Project - Exploratory Analysis of Rain Fall 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 and ML data set	USN-1	• Collect the data set of rainfall in India of all regions about past 50 years. • Cleaning the dataset to get accurate results. • Ensuring that the values in the dataset are accurate to the results.	3	Medium	Konduru Tharun, Faroon,Pasith
Sprint-1	Split the dataset	USN-2	• Split the dataset into training and testing dataset values. • 70% of the dataset values are used for training the model and remaining 30% is used for testing purpose to calculate the accuracy of the model.	4	High	Puthin, Konduru Tharun
Sprint-1		USN-3	• Credentials are used for multiple system login	2	Low	Pasith, Faroon
Sprint-2	Registration	USN-4	• As a user, I can register for the application through Gmail	2	Medium	Faroon and Puthin
Sprint-2	Login	USN-5	• As a user, I can log into the application by entering email & password	1	Low	Puthin
Sprint-3	Dashboard	USN-6	• Dashboard should be user friendly.	3	Medium	Tharun Faroon

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Testing	USN-7	• Test the model with the testing dataset and calculate the accuracy. • Ensure that the accuracy of the model should be greater than 90%.	5	High	Konduru Tharun, Faroon, Pasith, Puthin
Sprint-4	Deploy the model	USN-8	• If the accuracy of the model is greater than 90%, then deploy the model to the IBM cloud. • Otherwise	4	Medium	Tharun,Pasith

Project Tracker, Velocity & Burndown Chart: (4 Marks)

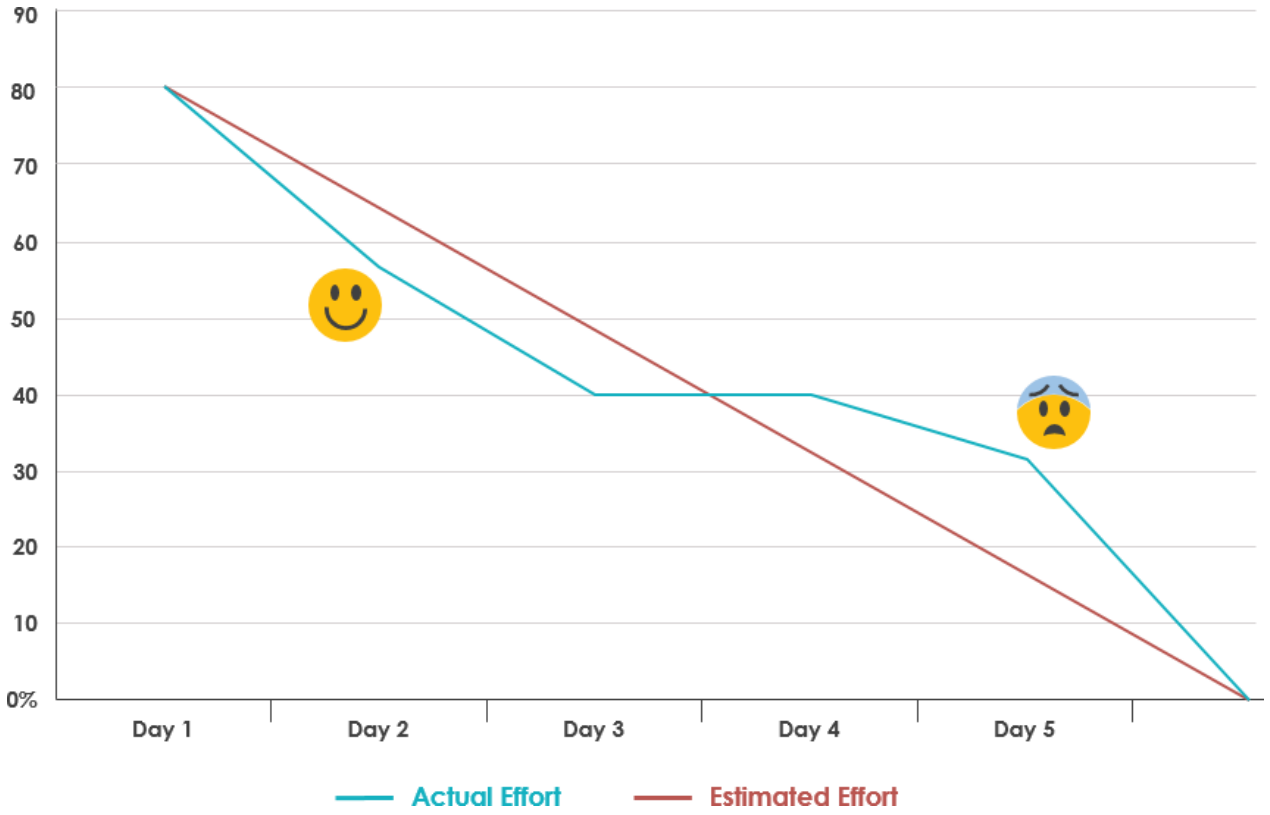
Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	18	5 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	19	14 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	23 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:



Duration: 6 days
Sprint backlog: 10 tasks
Velocity: 90 available hours