Project Planning Phase

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

Date	23 November 2022
Team ID	PNT2022TMID42592
Project Name	Predicting the energy output of wind turbine based on weather condition
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	Data Collection and Preprocessing	USN-1	As a user, I am unable to engage with anything	9	Medium	Nagaraj G Palani Selvam M Pasupathi Dadeeja
Sprint-2	Performance Testing	USN-2	As a user, I am unable to engage with anything	6	High	Nagaraj G Palani Selvam M Pasupathi Dadeeja
Sprint-2	Execute and Test your Model	USN-3	As a user, I can predict the wind energy using the best created ML models	5	High	Nagaraj G Palani Selvam M Pasupathi Dadeeja
Sprint-3	Train the ML model	USN-4	As a user, I can predict wind energy using the user interface	6	Medium	Nagaraj G Palani Selvam M Pasupathi Dadeeja

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Integrate Flask with Model	USN-5	As a user, I can predict the wind energy using the best created ML models	5	High	Nagaraj G Palani Selvam M Pasupathi Dadeeja
Sprint-4	Model Deployment on IBM cloud using IBM watson	USN-6	As a user, I can use the model by requesting the deployed model on cloud	9	High	Nagaraj G Palani Selvam M Pasupathi Dadeeja

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	9	4 Days	24 Oct 2022	27 Oct 2022	9	28 Oct 2022
Sprint-2	11	6 Days	31 Oct 2022	05 Nov 2022	11	06 Nov 2022
Sprint-3	11	5 Days	07 Nov 2022	11 Nov 2022	11	12 Nov 2022
Sprint-4	9	5 Days	14 Nov 2022	18 Nov 2022	9	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)

$$AV = \frac{sprint\ duration}{velocity}$$

= 9+11+11+9/20 =2.0

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.

Burndown Chart