

Project Planning Phase

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

Date	1 November 2022
Team ID	PNT2022TMID31706
Project Name	Predictive Analytics for Aircraft Engines
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Create an application - Predictive Analytics for Aircraft Engine	IP-11-5	Need to Collect the dataset	4	Medium	Sakthivel.S
		IP-11-23	Download the dataset	-	-	Sakthivel.S
Sprint-1	Create an application - Predictive Analytics for Aircraft Engine	IP-11-6	Data Pre-Processing	16	High	Ayaan Gouse
		IP-11-24	Import required libraries	-	-	Sakthivel
		IP-11-25	Read the datasets	-	-	Bhubesh.M
		IP-11-26	Pre-Process the datasets	-	-	Ayaan Gouse
		IP-11-27	Calculate the time to Failure	-	-	M.Sasitharan
		IP-11-28	Split the dataset	-	-	Ayaan Gouse
Sprint-2	Create an application - Predictive Analytics for Aircraft Engine	IP-11-7	Model Building	20	High	Sakthivel.S
		IP-11-29	Choose the appropriate model	-	-	Sakthivel.S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
		IP-11-30	Test the model accuracy	-	-	Ayaan Gouse
Sprint-3	Create an application - Predictive Analytics for Aircraft Engine	IP-11-8	Application Building	20	High	Ayaan Gouse
		IP-11-31	Build the python flask app	-	-	Ayaan Gouse
		IP-11-32	Configure for Manual Prediction	-	-	M.Sasitharan
		IP-11-33	Build A HTML Page	-	-	Sakthivel.S
		IP-11-34	Execute and test the model	-	-	Bhubesh.M
Sprint-4	Create an application - Predictive Analytics for Aircraft Engine	IP-11-9	Train the Model on IBM	10	High	M.Sasitharan
		IP-11-35	Register for IBM Cloud	-	-	M.Sasitharan
		IP-11-36	Train the ML model on IBM cloud	-	-	Ayaan Gouse Sakthivel.S
		IP-11-37	Integrate Flask with Scoring End Point	-	-	Bhubesh.M
Sprint-4	Create an application - Predictive Analytics for Aircraft Engine	IP-11-10	Check the functionality of the Web App (The final step)	10	Medium	
		IP-11-38	Prediction Page	-	-	Sakthivel.S M.Sasitharan
		IP-11-39	Output page	-	-	Ayaan Gouse Bhubesh.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	13 Nov 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	14 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	15 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	17 Nov 2022

Velocity:

$$AV = \frac{\textit{sprint duartion}}{\textit{velocity}} = \frac{20}{6} = 3.33$$

Burndown Chart:

