Project Planning Phase

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

Date	03-11-2023
Team ID	PNT2022TMID591862
Project Name	Project - IDENTIFING AIRLINE PASSENGERS' SATISFACTION Using ML
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	User Authentication			5		Sai Charan, Harshitha
		USN-1	Implement user login functionality		High	
Sprint-1				8		Karthik, Bhargavi
	User Interface	USN-2	Design user interface for airline selection		High	
Sprint-1				13		Sai Charan, Bhargavi
	Data Collection and		Develop data collection logic and Implement			
	Data Processing	USN-3	data cleaning and transformation		High	
Sprint-2	Machine Learning Integration	USN-4	Integrate machine learning models	13	High	Karthik, Sai Charan
Sprint-2	Testing and Quality Assurance	USN-5	Conduct testing on data processing	5	Medium	Karthik, Bhargavi
Sprint-2	Database Management	USN-6	Set up database for storing processed data	8	High	Sai Charan, Harshitha

Sprint-3	Security and Access			5		Karthik, Harshitha
	Control	USN-7	Implement user data encryption		High	Tiaromitia
Sprint-3	Real-time Data			8		Sai Charan,
	Analysis	USN-8	Integrate real-time data analysis features		Medium	Bhargavi
Sprint-4	Scalability and			8		Bhargavi,
	Performance	USN-9	Optimize system for scalability		High	Harshitha
Sprint-4	Third-party			8		Karthik, Sai
	Integrations	USN-10	Integrate third-party APIs		High	Charan

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

Sprint	Total Story Points	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint End date (Actual)
1	26	30-10-23	05-11-23	21	06-11-23
2	21	06-11-23	09-11-23	23	09-11-23
3	21	10-11-23	15-11-23	23	15-11-23
4	20	16-11-23	18-11-23	21	18-11-23

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)

To calculate the team's average velocity per iteration unit (story points per day), you can use the following formula:

Average Velocity (AV) = Total Story Points completed in All Sprints/Total Amount of Data Across Sprints

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Based on the provided sprint information:
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Total Story Points Completed in All Sprints:

21(Sprint 1) +23(Sprint 2) +23(Sprint 3) +21(Sprint 4) =88 story points

Total Number of Days Across All Sprints:

Sprint 1: 7 days (30-10-23 to 06-11-23)

Sprint 2: 3 days (07-11-23 to 09-11-23)

Sprint 3: 6 days (10-11-23 to 15-11-23)

Sprint 4: 3 days (16-11-23 to 18-11-23)

7 days + 3 days + 6 days + 3 days = 19 days

Using the formula:

Average Velocity (AV) = 88 story points / 19 days ≈ 4.63 story points per day

So, the team's average velocity is approximately 4.63 story points per day across all sprints.

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.

Dates	Planned	Actual	
30-10-2023	5		3
31-10-2023	4		5
01-11-2023	3		2
02-11-2023	6		5
03-11-2023	3		4
04-11-2023	5		3
05-11-2023	6		4
06-11-2023	7		8
07-11-2023	5		6
08-11-2023	5		5
09-11-2023	4		6
10-11-2023	3		4
11-11-2023	6		5
12-11-2023	3		4

13-11-2023	4	5
14-11-2023	1	2
15-11-2023	5	4
16-11-2023	6	6
17-11-2023	4	4
18-11-2023	5	7

Graphical Representation:

