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

Date	18 February 2026
Team ID	LTVIP2026TMIDS84143
Project Name	Electric Motor Temperature Prediction using Machine Learning
Maximum Marks	5 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	USN-1	Collect electric motor dataset	2	High	Lahari
Sprint-1	Data Collection	USN-2	Load dataset using Pandas	1	High	Lahari
Sprint-1	Data Preparation	USN-3	Handle missing values	3	High	Lahari
Sprint-1	Data Preparation	USN-4	Perform feature scaling (MinMaxScaler)	3	High	Lahari
Sprint-1	Model Development	USN-5	Train regression model	5	High	Lahari
Sprint-1	Model Development	USN-6	Evaluate model (R², MAE, MSE)	3	High	Masesh
Sprint-2	Model Deployment	USN-7	Save trained model as .save file	2	High	Masesh
Sprint-2	Flask Setup	USN-8	Create Flask app structure	3	High	Masesh
Sprint-2	UI Development	USN-9	Design HTML form for input	3	Medium	Lahari
Sprint-2	Backend Integration	USN-10	Integrate ML model with Flask	5	High	Lahari
Sprint-2	Validation & Alerts	USN-11	Implement input validation	2	Medium	Aarathi
Sprint-2	Enhancement	USN-12	Add overheating warning logic	2	Medium	Aarathi

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	17	6 Days	9 Feb 2026	14 Feb 2026	17	15 Feb 2026
Sprint-2	17	6 Days	14 Feb 2026	18 Feb 2026	17	18 Feb 2-26

Velocity Calculation

Total Story Points = 17 + 17 = 34

Number of Sprints = 2

Velocity = 34 / 2

Burndown Chart:

The burndown chart shows a steady reduction in story points across both sprints. Sprint-1 focused on machine learning model development, while Sprint-2 focused on deployment and UI integration. All planned story points were completed within the sprint duration, indicating stable team velocity.

https://www.visual-paradigm.com/scrum/scrum-burndown-chart/

https://www.atlassian.com/agile/tutorials/burndown-charts