PROJECT PLANNING PHASE

Project Name: Data Analytics for the EV Market and Performance Analysis

Date	**15 February 2025**
Team ID	LTVIP2026TMIDS90945
Project Name	**Data Analytics for the EV Market and Performance Analysis**
Maximum Marks	**5 Marks**

Project Description

This project focuses on analyzing Electric Vehicle (EV) market trends, sales growth, performance metrics, battery capacity, range analysis, charging infrastructure, and manufacturer performance using Tableau Prep Builder for data preparation and Tableau for dashboard visualization and insights generation.

Product Backlog & Sprint Plan

Sprint	Epic	User Story	Story Points
Sprint-1	Data Collection & Cleaning	Collect, clean and transform EV dataset	11
Sprint-2	M arket & Manufacture Analysis	Sales and Trends and manufacturer performance	11
Sprint-3	Performance & KPI Dashboard	Analyze battery, range, charging & KPIs	13
Sprint-4	Interactive Dashboard & Report	insights, export & deployment	11

PRODUCT BACKLOG, SPRINT SCHEDULE & ESTIMATION

print	Epic	User Story No	User Story / Task	Story Points	Priorit
print-1	Data Collection	USN-1	Collect EV dataset from reliable sources	3	High
print-1	Data Cleaning	USN-2	Clean and preprocess EV data using Tableau Prep Builder	5	High
print-1	Data Transformation	USN-3	Transform date, sales, range and battery fields	3	High
print-2	Market Trend Analysis	USN-4	Analyze EV sales growth trends over years	5	High
print-2	Manufacturer Analysis	USN-5	Compare EV manufacturer performance	3	Mediu
print-2	Regional Analysis	USN-6	Analyze EV adoption by region/state	3	Mediu
print-3	Performance Metrics	USN-7	Analyze EV range, battery capacity and efficiency	5	High
print-3	Charging Infrastructure	USN-8	Visualize charging station distribution	3	Mediu
print-3	KPI Dashboard	USN-9	Create overall KPI dashboard in Tableau	5	High
print-4	Interactive Dashboard	USN-10	Add filters by year, region, manufacturer	5	High
print-4	Insights & Reporting	USN-11	Generate insights and export reports	3	Mediu
print-4	Testing & Deployment	USN-12	Final testing and deployment of dashboard	3	High

PROJECT TRACKER, VELOCITY & BURNDOWN CHART

Sprint	Total Story Points	Duration	Start Date	End Date	Completed Points
Sprint-1	11	6 Days	20 Feb 2026	25 Feb 2026	11
Sprint-2	11	6 Days	27 Feb 2026	04 Mar 2026	11
Sprint-3	13	6 Days	06 Mar 2026	11 Mar 2026	13
Sprint-4	11	6 Days	13 Mar 2026	18 Mar 2026	11

Velocity Calculation

Sprint Duration = 6 Days Average Story Points per Sprint = 11 Velocity (Story Points per Day) = 11 / 6 = 1.83 ≈ 2 Story Points per Day

Average Velocity (AV):

$$AV = \frac{\text{Total Story Points}}{\text{Sprint Duration}}$$

$$AV = \frac{11}{6} = 1.82 \approx 2 \text{ Story points per seconds}$$

Burndown Chart Explanation

A burndown chart represents the remaining work versus time in a sprint. In this EV Analytics project, story points reduce each day of the sprint until reaching zero on the final day. This ensures proper tracking of dashboard development, performance analysis, and reporting completion.

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Burndown chart is useful to:

Monitor progress
Identify delays
Improve sprint planning
Track team performance

Project Outcome

The project provides:
EV market growth trends
Regional EV adoption insights
Manufacturer performance comparison
Battery and range performance analysis
Charging infrastructure distribution
Interactive dashboards for business decision-making