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

Date	28 February 2026
Team ID	LTVIP2026TMIDS46423
Project Name	Intelligent SQL Querying with LLMs Using Gemini Pro
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	System Setup	USN-1	As a developer, I can set up virtual environment and dependencies	1	High	Team
Sprint-1	API Integration	USN-2	As a system, I can integrate OpenAI API for query generation	3	High	Team
Sprint-1	Database Setup	USN-3	As a system, I can connect to relational database	3	High	Team
Sprint-1	Query Execution	USN-4	As a user, I can execute SQL queries on database	5	High	Team
Sprint-2	NLP Conversion	USN-5	As a user, I can convert natural language into SQL	5	High	Team
Sprint-2	SQL Validation	USN-6	As a system, I can validate generated SQL queries	3	High	Team
Sprint-2	UI Development	USN-7	As a user, I can input queries via Streamlit interface	2	Medium	Team
Sprint-2	Output Display	USN-8	As a user, I can view results in tabular format	2	Medium	Team

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	12	7 Days	20 Feb 2025	26 Feb 2025	12	26 Feb 2025
Sprint-2	13	7 Days	27 Feb 2025	05 Mar 2025	13	05 Mar 2025

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)

$$Average\ Sprint\ Velocity = \frac{Total\ Story\ Points}{Number\ of\ Sprints} = \frac{25}{2} = 12.5$$

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.

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

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

Reference:

https://www.atlassian.com/agile/project-management

https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software

https://www.atlassian.com/agile/tutorials/epics

https://www.atlassian.com/agile/tutorials/sprints

https://www.atlassian.com/agile/project-management/estimation

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