

# Project Planning Phase

## Project Planning Template

(Product Backlog, Sprint Planning, Stories, Story Points)

<b>Date</b>	February 18, 2026
<b>Team ID</b>	LTVIP2026TMIDS80425
<b>Project Name</b>	Smart Bridge – Intelligent SQL Querying
<b>Maximum Marks</b>	5 Marks

<b>Team Leader</b>	C Chaithanya Prasad
<b>Team Member 1</b>	K Dinesh
<b>Team Member 2</b>	Karnam Vidhyasree
<b>Team Member 3</b>	Bharath Kumar
<b>Team Member 4</b>	Parlapalli Khandith Kumar Reddy

## Product Backlog, Sprint Schedule, and Estimation

Sprint	Functional Req. (Epic)	USN	User Story / Task	Story Pts	Priority	Team Members
Sprint-1	Project Setup	USN-1	Set up project structure with React frontend and FastAPI backend	3	High	C Chaithanya Prasad
Sprint-1	Database Setup	USN-2	Create SQLite database with e-commerce schema (customers, products, orders, order_items)	2	High	K Dinesh
Sprint-1	Database Setup	USN-3	Create seed script to populate database with sample data	2	High	K Dinesh
Sprint-1	API Development	USN-4	Build FastAPI endpoint for database schema retrieval (GET /api/schema)	3	High	Bharath Kumar
Sprint-1	AI Integration	USN-5	Integrate Google Gemini API for NL-to-SQL conversion	5	High	C Chaithanya Prasad
Sprint-1	API Development	USN-6	Build FastAPI endpoint for query processing (POST /api/query)	3	High	Bharath Kumar
<b>Sprint-1 Total Story Points:</b>				<b>18</b>		
Sprint-2	Frontend – Query Panel	USN-7	Build query input panel with text area and submit button	3	High	Karnam Vidhyasree

Sprint	Functional Req. (Epic)	USN	User Story / Task	Story Pts	Priority	Team Members
Sprint-2	Frontend – Results	USN-8	Build results display component with table formatting	3	High	Karnam Vidhyasree
Sprint-2	Frontend – Schema	USN-9	Build interactive schema viewer sidebar with expandable tables	3	High	Parlapalli K K Reddy
Sprint-2	Frontend – Layout	USN-10	Create premium dark-themed responsive layout	5	High	Parlapalli K K Reddy
Sprint-2	Frontend – SQL Display	USN-11	Display generated SQL in syntax-highlighted code block	2	Medium	Karnam Vidhyasree
Sprint-2	Error Handling	USN-12	Implement error handling and user-friendly error messages	2	High	Bharath Kumar
<b>Sprint-2 Total Story Points:</b>				<b>18</b>		
Sprint-3	Integration	USN-13	Connect frontend to backend API with CORS configuration	3	High	C Chaithanya Prasad
Sprint-3	Sample Queries	USN-14	Add clickable sample query suggestions	2	Medium	K Dinesh
Sprint-3	Testing	USN-15	End-to-end testing of query flow	3	High	Bharath Kumar
Sprint-3	UI Polish	USN-16	Loading states, animations, and micro-interactions	3	Medium	Parlapalli K K Reddy
Sprint-3	Documentation	USN-17	Write project documentation and README	2	Medium	K Dinesh
Sprint-3	Deployment	USN-18	Prepare deployment configuration	3	Medium	C Chaithanya Prasad
<b>Sprint-3 Total Story Points:</b>				<b>16</b>		

## Project Tracker, Velocity & Burndown Chart

Sprint	Total Story Points	Duration	Start Date	End Date (Planned)	Points Completed
Sprint-1	18	7 Days	18 Feb 2026	24 Feb 2026	18
Sprint-2	18	7 Days	25 Feb 2026	03 Mar 2026	18
Sprint-3	16	7 Days	04 Mar 2026	10 Mar 2026	16

## Velocity

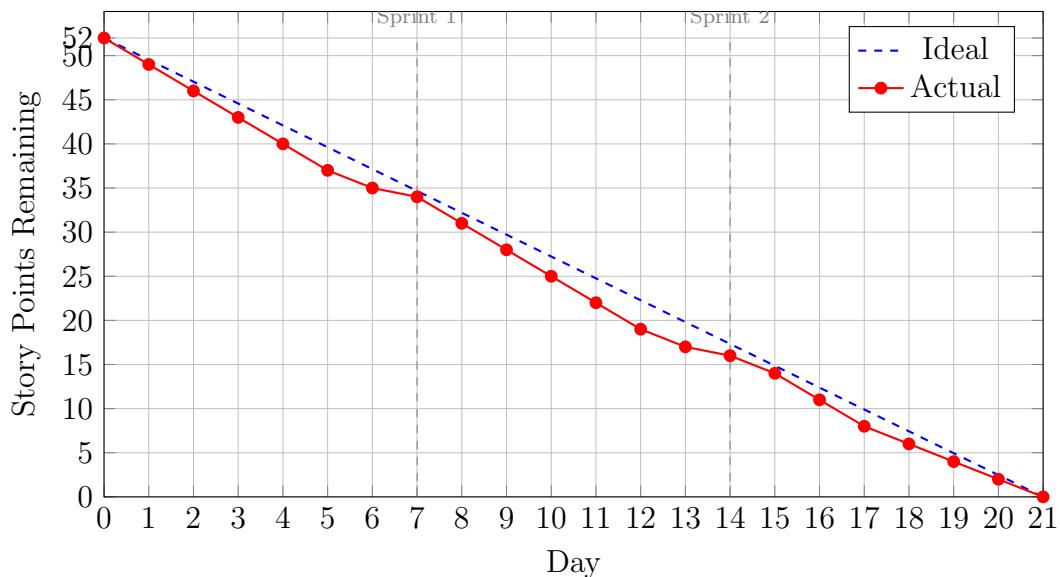
Team velocity calculation:

- Sprint-1: 18 story points completed
- Sprint-2: 18 story points completed
- Sprint-3: 16 story points completed
- **Total Story Points =  $18 + 18 + 16 = 52$**
- **Number of Sprints = 3**
- **Average Velocity =  $52 / 3 \approx 17.3$  Story Points per Sprint**
- **Average Velocity per Day =  $17.3 / 7 \approx 2.5$  Story Points per Day**

## Burndown Chart

A burndown chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum.

### Project Burndown Chart – Smart Bridge SQL Querying



## References

- <https://www.atlassian.com/agile/project-management>
- <https://www.atlassian.com/agile/tutorials/burndown-charts>
- <https://www.atlassian.com/agile/tutorials/sprints>
- <https://www.atlassian.com/agile/project-management/estimation>
- <https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>