

## Project Planning Phase

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

Date2	27 June 2025
Team ID	LTVIP2025TMID32116
Project Name	EduTutor AI: Personalized Learning with Generative AI and LMS Integration
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	Registration	USN-1	Register with email, password, confirm password	2	High	Paidimari Venkata Sai Srilatha
Sprint -1	Registration	USN-2	Receive confirmation email	1	High	Paidimari Venkata Sai Srilatha
Sprint -1	Registration via Gmail (OAuth)	USN-3	Register via Gmail	3	High	Parasa Vennela Kranthi
Sprint -1	Login	USN-4	Log in with email and password	1	High	Paidimari Venkata Sai Srilatha
Sprint -1	Google Classroom Integration	USN-5	Sync Google Classroom courses	5	High	Parasa Vennela Kranthi
Sprint -2	AI Quiz Generation (Granite LLM)	USN-6	Generate quizzes from synced course topics using IBM Granite LLM	5	High	Ponduri Venkata Sai Lakshmi Deepthi
Sprint -2	Diagnostic Test (IBM Watsonx)	USN-7	Take a diagnostic quiz to set learning level	3	High	Ponduri Venkata Sai Lakshmi Deepthi
Sprint -2	Educator Dashboard (View Analytics)	USN-8	View student quiz history, scores, and insights	4	Medium	Palla Rajesh
Sprint -2	Quiz Results Storage (Pinecone Vector DB)	USN-9	Store student quiz results and vectors in Pinecone DB	3	High	Palla Rajesh
Sprint -3	Educator Dashboard Enhancements	USN-10	Filter quiz results by topic and date range	2	Medium	Palla Rajesh
Sprint -3	UI / UX Improvements (FastAPI Frontend)	USN-11	Improve dashboard interfaces and navigation	3	Medium	Paidimari Venkata Sai Srilatha

Sprint -3	Quiz Export to PDF	USN-12	Download quiz results as PDF	5	High	Ponduri Venkata Sai Lakshmi Deepthi
Sprint -3	Code Optimization & Refactoring	USN-13	Refactor redundant code for maintainability	3	Medium	Palla Rajesh
Sprint -3	Final Deployment on Cloud	USN-14	Deploy final application on production cloud server	5	High	Palla Rajesh

### 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	5 Days	18 June 2025	22 June 2025	12	22 June 2025
Sprint-2	15	5 Days	23 June 2025	27 June 2025	15	27 June 2025
Sprint-3	18	5 Days	28 June 2025	02 July 2025	18	02 July 2025

## Velocity Calculation

Given: Sprint Duration = 15 days and Velocity = 20 story points per sprint

❖ Average Velocity (AV) per iteration unit (story points per day)

Average Velocity (AV) per iteration unit (story points per day)

$$AV = \frac{\text{Total Story Points in Sprint}}{\text{Sprint Duration (days)}}$$

$$AV = \frac{15}{5} = 3 \text{ story points per day}$$

Burndown Chart:

EduTutor AI Project Burndown Chart

