Project Planning Phase: Edu Tutor AI

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

Date	15 February 2025
Team ID	EDU-AI-DEV
Project Name	Edu Tutor AI
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	User Management	USN-1	As a student, I can register for the application by entering my email, password, and confirming my password.	2	High	Alice, Bob, Santhosh
Sprint-1	User Management	USN-2	As a student, I will receive a confirmation email once I	1	High	Alice

			have registered for the application.			
Sprint-1	User Management	USN-3	As a student, I can register for the application through Google.	2	Medium	Charlie, Santhosh
Sprint-1	User Management	USN-4	As a student, I can log into the application by entering my email & password.	1	High	Alice, Bob
Sprint-2	AI Tutoring	USN-5	As a student, I can ask the AI tutor questions related to my study material.	3	High	David, Eve, Santhosh
Sprint-2	AI Tutoring	USN-6	As a student, I can upload documents (PDF, DOCX) for the AI tutor to analyze.	5	High	David, Frank

Sprint-2	AI Tutoring	USN-7	As a student, I can receive AI-generated explanations in various formats (text, bullet points, examples).	3	High	Eve
Sprint-3	Progress Tracking	USN-8	As a student, I can view my learning progress and completed topics.	2	Medium	Grace
Sprint-3	Progress Tracking	USN-9	As a student, I can see my quiz scores and areas for improvement.	2	Medium	Grace
Sprint-3	Content Library	USN-10	As a student, I can browse a curated library of study resources.	2	Low	Helen
Sprint-4	Dashboard	USN-11	As a student, I	3	High	Alice, Bob

			can see a personalized dashboard with recent activity and recommendations.			
Sprint-4	Dashboard	USN-12	As a student, I can access quick links to my active sessions and saved content from the dashboard.	1	High	Alice

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date (Planned)	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	8	6 Days	24 Jun 2025	29 Jun 2025	8	29 Jun 2025
Sprint-2	11	6 Days	01 Jul 2025	06 Jul 2025	-	-
Sprint-3	6	6 Days	08 Jul 2025	13 Jul 2025	-	-
Sprint-4	4	6 Days	15 Jul 2025	20 Jul 2025	-	-

Note: The "Story Points Completed" and "Sprint Release Date (Actual)" fields are left blank for future updates as the project progresses.

Velocity:

Imagine we have a 6-day sprint duration, and the average velocity of the team is approximately 7.25 (points per sprint) based on Sprint 1's performance. Let's calculate the team's average velocity (AV) per iteration unit (story points per day).

Assuming an average velocity of 7.25 points per sprint (from Sprint 1 completed points):

$$AV = \frac{\text{Average Story Points Completed}}{\text{Sprint Duration in Days}}$$
$$AV = \frac{7.25 \text{ points}}{6 \text{ days}} \approx 1.21 \text{ story points per day}$$

Burndown Chart:

A burndown chart for "Edu Tutor AI" would graphically represent the remaining work (story points) versus time. It will be updated after each sprint to show the actual progress against the planned work.

(A visual representation of the burndown chart would typically be generated by a project management tool. Below is a conceptual representation of data points for a burndown chart.)

Day	Remaining Story Points (Planned)	Remaining Story Points (Actual)
Day 0 (Sprint Start)	8	8
Day 1	6	7
Day 2	4	5
Day 3	3	4
Day 4	2	3
Day 5	1	1
Day 6 (Sprint End)	0	0

Note: The "Remaining Story Points (Actual)" data will be filled in as the project

progresses through each sprint.