Project Planning Phase

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

Date	15 February 2025
Team ID	LTVIP2025TMID29410
Project Name	Smart SDLC using Generative AI on IBM Cloud
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	Environment Setup	USN-1	As a developer, I can create an IBM Cloud account and set up resource groups to host the Generative AI service	2	High	K. Sri Rama Krishna Veni
Sprint-1	DevOps Flow Setup	USN-2	As a developer, I can initialize a GitHub repo and connect it to IBM DevOps pipeline	3	High	K. Sri Rama Krishna Veni
Sprint-1	Model Integration	USN-3	As a developer, I can integrate IBM Watsonx or foundation model APIs into the application backend	5	High	K. Sri Rama Krishna Veni
Sprint-2	Prompt Engineering	USN-4	As a developer, I can fine-tune prompts for the generative model to achieve better development documentation results	3	Medium	Pedireddi Lakshmi Saroja Sai Veni
Sprint-2	SDLC Phase Automation	USN-5	As a user, I can generate requirement documents using a chat-based interface powered by Generative AI	5	High	Pedireddi Lakshmi Saroja Sai

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
						Veni
Sprint-2	Testing Phase Automation	USN-6	As a user, I can auto-generate unit tests and test case documentation from feature descriptions	4	Medium	Pedireddi Lakshmi Saroja Sai Veni
Sprint-3	Deployment Automation	USN-7	As a developer, I can deploy the application using IBM Cloud Continuous Delivery toolchain	3	Medium	Nagalla Devi
Sprint-3	Monitoring Integration	USN-8	As a developer, I can set up IBM Cloud Monitoring to track the app's performance and errors	3	Low	Nagalla Devi

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	10	6 Days	20 May 2025	25 May 2025	10	25 May 2025
Sprint-2	12	6 Days	26 May 2025	31 May 2025	12	31 May 2025
Sprint-3	6	6 Days	01 June 2025	06 June 2025	6	06 June 2025
Sprint-4	4	6 Days	07 June 2025	12 June 2025	4	12 June 2025

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)

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)

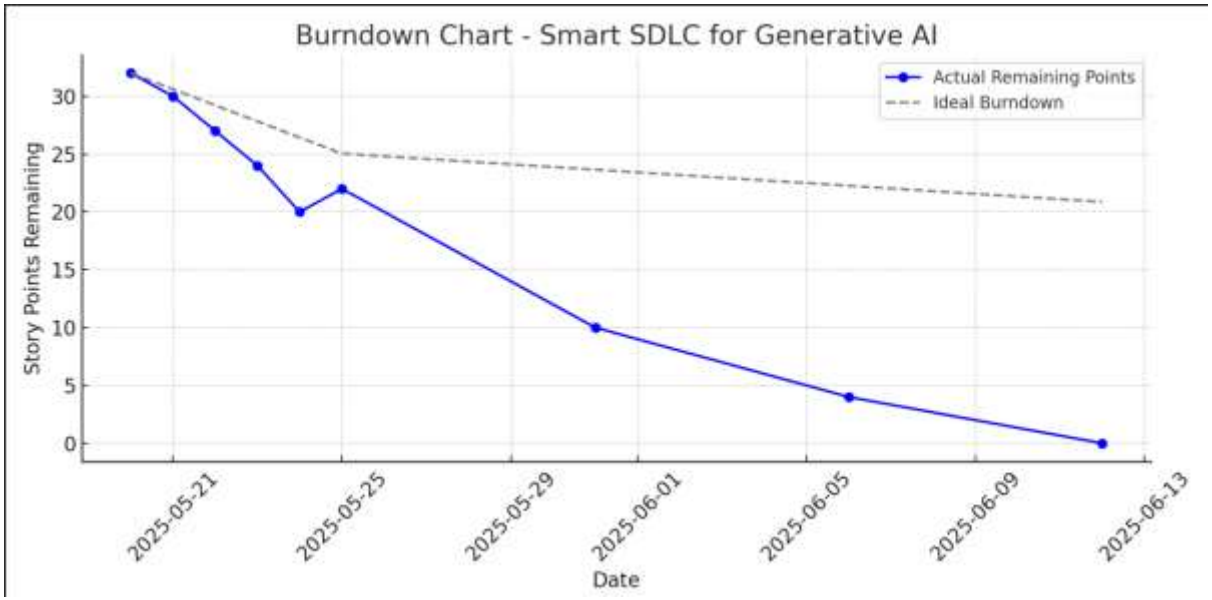
Total Points: 10 + 12 + 6 + 4 = **32**

Total Duration: 4 sprints × 6 days = **24 days**

Velocity = 32 / 24 = **1.33 story points per day**

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.



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