# Sprint-1 Burndown Chart

Project Name: Personalized Learning with Generative AI and LMS Integration

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## Objective:

To build an intelligent Learning Management System (LMS) that provides personalized learning experiences using Generative AI. The system will automatically generate tailored content, quizzes, and adaptive learning paths based on each student's learning pace and performance.

## Sprint Goal:

Develop core functionalities of AI-based content generation and integrate with LMS for personalized course delivery.

## Sprint-1 Tasks:

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Story Points | Status |
| T1 | Research Generative AI tools for education | 3 | Done |
| T2 | Build content generation API using Generative AI | 5 | In Progress |
| T3 | Integrate AI API into LMS platform | 4 | To Do |
| T4 | Develop user profiling system (Learning styles) | 4 | In Progress |
| T5 | Create personalized quiz generation feature | 4 | To Do |

Total Story Points: 20

## Sprint-1 Burndown Chart

### Ideal vs Actual Progress

|  |  |  |
| --- | --- | --- |
| Day | Ideal Story Points Remaining | Actual Story Points Remaining |
| 1 | 20 | 20 |
| 2 | 16 | 17 |
| 3 | 12 | 14 |
| 4 | 8 | 10 |
| 5 | 4 | 6 |
| 6 | 0 | 2 |

### Burndown Chart (Visualization)

X-Axis: Day (Sprint Duration: 6 Days)

Y-Axis: Story Points Remaining

Green Dotted Line: Ideal Burndown

Blue Solid Line: Actual Burndown

## Observation:

The team is slightly behind the ideal progress but catching up. Key challenges include fine-tuning AI content generation models and API integration with the LMS.

## Next Steps:

* Complete LMS API integration (T3)
* Finalize adaptive quiz feature (T5)
* Test personalized content delivery pipeline
* Prepare demo for stakeholders