Sprint Planning: Personalized Learning with Generative AI and LMS Integration

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Date: 19 July 2025

## Key Terms

Sprint: A fixed period (e.g., 5 days) where the team works on specific tasks.

Epic: A large project broken into smaller stories/tasks.

Story: A smaller, actionable task under an epic.

Story Point: Effort estimate for each story, typically using the Fibonacci series (1, 2, 3, 5, 8...).

## Effort Levels:

|  |  |
| --- | --- |
| Story Point | Task Complexity |
| 1 | Very Easy |
| 2 | Easy |
| 3 | Moderate |
| 5 | Difficult |

## Project Overview:

Project Name: Personalized Learning Platform with Generative AI and LMS Integration

Objective: Develop a personalized learning environment that uses Generative AI to recommend content, track progress, and integrate seamlessly with LMS platforms.

## Sprint 1: (5 Days)

### Epic 1: Data Preparation for Personalized Learning

|  |  |  |
| --- | --- | --- |
| Story | Task | Story Points |
| Story 1 | Collect Learning Data (user profiles, progress, preferences) | 2 |
| Story 2 | Integrate LMS Data (fetch courses, assessments, reports) | 2 |
| Story 3 | Data Cleaning & Preprocessing (missing values, formatting) | 3 |
| Story 4 | Define User Learning Paths Schema | 1 |

Total Story Points for Sprint 1: 8

## Sprint 2: (5 Days)

### Epic 2: AI Model Development and Deployment

|  |  |  |
| --- | --- | --- |
| Story | Task | Story Points |
| Story 5 | Build Generative AI Model for Content Recommendation | 5 |
| Story 6 | Test AI Model with Sample Data | 3 |

### Epic 3: LMS & AI Integration

|  |  |  |
| --- | --- | --- |
| Story | Task | Story Points |
| Story 7 | Develop Frontend (Personalized Dashboard UI) | 3 |
| Story 8 | Deploy Model Using Flask and Integrate with LMS APIs | 5 |

Total Story Points for Sprint 2: 16

## Velocity Calculation

|  |  |
| --- | --- |
| Sprint | Story Points |
| Sprint 1 | 8 |
| Sprint 2 | 16 |

Total Story Points = 8 + 16 = 24

Number of Sprints = 2

Velocity = 24 / 2 = 12 Story Points per Sprint

## Summary

Project: Personalized Learning with Generative AI & LMS Integration

Sprints Completed: 2

Team Velocity: 12 Story Points per Sprint