

🧩 **Agile Breakdown – Smart SDLC – AI Requirement Analyzer**

- Sprint:** A fixed 5-day development cycle to complete specific tasks.
- Epic:** Building a fully functional AI-based requirement analyzer web app.
- Story:** Smaller tasks like UI design, API integration, and result display.
- Story Point:** Effort estimate using Fibonacci scale (1, 2, 3, 5, 8...).
 - 1 = Very Easy, 2 = Easy, 3 = Moderate, 5 = Difficult

📦 **Sprint 1: (5 Days)**

Frontend UI + AI Setup

- Upload Interface (Streamlit) – 2
- Connect OpenRouter API – 3
- Create .secrets.toml Integration – 2
- Design Output Layout – 3

Total = 10 Story Points

Sprint 2: (5 Days)

API Response + Deployment

- Prompt Engineering & AI Output Parsing – 5
- Secure Secret Handling + Error Handling – 3
- Streamlit Cloud Deployment – 5
- Output Validation Testing – 3

Total = 16 Story Points

📊 **Sprint Summary**

Metric	Value
Sprint 1 Points	10
Sprint 2 Points	16
Total Points	26
No. of Sprints	2
Velocity	26 / 2 = 13 Story Points/Sprint

- Integrated OpenRouter API using the provided key.
- Set up secure key management using .secrets.toml.
- reated a basic layout to display AI output in a readable format. | **10** |
- | **Sprint 2** | 5 Days | Finalize functionality and deploy | - Engineered the prompt format to extract meaningful requirements from uploaded text.
- Implemented error handling and response validation.
- Deployed the app to Streamlit Cloud for public access.
- Performed testing and validated output accuracy. | **16** |

Velocity Calculation

- Total Story Points Completed:** 10 (Sprint 1) + 16 (Sprint 2) = 26
- Number of Sprints:** 2
- Velocity** = Total Points / No. of Sprints = **26 / 2 = 13**
- ✅ **Team Velocity: 13 Story Points per Sprint**