

## **Sprint 1**

### **Epic 1: User Interface Development**

This epic focused on building the Streamlit-based web interface so users can interact with the system.

#### **Stories under this epic:**

- USN-1: Designing the Streamlit layout and sidebar input (2 Story Points)
- USN-2: Implementing recipe topic input field (1 Story Point)
- USN-3: Implementing word count selection slider (100–2000 words) (2 Story Points)
- USN-4: Creating the section to display generated recipe content (2 Story Points)

**Total for Epic 1:** 7 Story Points.

### **Epic 2: Core AI Integration**

This epic handled the core functionality of connecting the application with Google Gemini AI.

#### **Stories under this epic:**

- USN-5: Integrating Google Gemini API with the application (5 Story Points)
- USN-6: Designing the structured prompt template (Title, Introduction, Ingredients, Instructions) (3 Story Points)
- USN-7: Handling API response and displaying generated output (3 Story Points)

**Total for Epic 2:** 11 Story Points.

### **Total Story Points in Sprint 1**

Epic 1 (7) + Epic 2 (11) = 18 Story Points

## **Sprint 2**

### **Epic 3: Content Formatting and Export**

This epic focused on converting AI output into structured, downloadable format.

#### **Stories under this epic:**

- USN-8: Structuring the output into clear blog sections (3 Story Points)

- USN-9: Implementing Markdown file generation (3 Story Points)
- USN-10: Implementing download functionality for .md file (2 Story Points)

**Total for Epic 3:** 8 Story Points.

#### **Epic 4: User Experience Enhancements**

This epic improved usability and system robustness.

##### **Stories under this epic:**

- USN-11: Adding loading indicator during AI processing (2 Story Points)
- USN-12: Displaying a random programming joke during loading (2 Story Points)
- USN-13: Implementing input validation and error handling (3 Story Points)

**Total for Epic 4:** 7 Story Points.

#### **Epic 5: Testing and Deployment**

This epic ensured system reliability and proper execution.

##### **Stories under this epic:**

- USN-14: Functional testing of AI recipe generation (3 Story Points)
- USN-15: Local deployment setup and documentation (2 Story Points)

**Total for Epic 5:** 5 Story Points.

#### **Total Story Points in Sprint 2**

$8 + 7 + 5 = 20$  Story Points

#### **Overall Calculation**

Total Story Points Completed =  $18 + 20 = 38$

Number of Sprints = 2

Velocity = Total Story Points / Number of Sprints

Velocity =  $38 / 2$

Velocity = 19 Story Points per Sprint