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