

Release Plan

Product Name: LEMMA

Team Name: LEMMA

Release Name: Knowledge Graph Foundation Release

Release Date: June 7, 2025

Revision Number: 1.0

Revision Date: April 7, 2025

High-Level Goals

1. Create a functioning desktop application with a markdown note editor and basic knowledge graph capabilities
2. Implement the core database architecture for storing and retrieving notes
3. Establish the foundation for the AI/ML integration with basic Q&A functionality
4. Develop a simple Chrome extension that can capture web content
5. Ensure all data remains private and stored locally on the user's machine

User Stories: Defining the Scope of the Release

Sprint 1 (April 8 - April 21)

1. **US1.1** [8] - As a user, I want to create and edit markdown notes so that I can capture my thoughts with rich formatting.
2. **US1.2** [5] - As a user, I want my notes to be automatically saved so that I don't lose my work.
3. **US1.3** [8] - As a user, I want to organize my notes with tags and categories so that I can easily find related content.
4. **US1.4** [5] - As a user, I want to set up a local database to store my notes so that they remain private and accessible offline.
5. **US1.5** [3] - As a developer, I want to establish the Electron.js application framework so that we have a foundation for our desktop app.

Sprint 2 (April 22 - May 5)

1. **US2.1** [13] - As a user, I want to visualize connections between my notes in a 2D knowledge graph so that I can see relationships between my ideas.
2. **US2.2** [8] - As a user, I want to manually create connections between notes so that I can build my knowledge graph.
3. **US2.3** [8] - As a developer, I want to set up ChromaDB with embedding functionality so that we can begin semantic indexing of notes.

4. **US2.4** [5] - As a user, I want to search across all my notes so that I can quickly find specific information.

Sprint 3 (May 6 - May 19)

1. **US3.1** [13] - As a user, I want a Chrome extension that can save the current webpage to my notes so that I can capture online content.

2. **US3.2** [8] - As a user, I want the system to automatically suggest connections between notes based on content similarity so that I discover relationships I might have missed.

3. **US3.3** [13] - As a user, I want to ask natural language questions about my notes so that I can retrieve information conversationally.

4. **US3.4** [5] - As a user, I want to import and export my notes in common formats so that I can backup or migrate my data.

Sprint 4 (May 20 - June 2)

1. **US4.1** [13] - As a user, I want the system to help me synthesize ideas across my notes so that I can generate new insights.

2. **US4.2** [8] - As a user, I want to upgrade the knowledge graph visualization to support 3D views so that I can better navigate complex relationships.

3. **US4.3** [8] - As a user, I want the Chrome extension to automatically extract key information from webpages so that capturing content requires less manual effort.

4. **US4.4** [5] - As a user, I want to customize the appearance of the application so that it matches my preferences.

5. **US4.5** [3] - As a user, I want to access basic offline functionality so that I can use core features without an internet connection.

Sanity Check

Total story points: 131

- Sprint 1: 29 points

- Sprint 2: 34 points

- Sprint 3: 39 points

- Sprint 4: 37 points

Based on team capacity of approximately 35-40 points per sprint, this distribution appears reasonable. We have allocated fewer points in Sprint 1 to account for initial setup and team ramp-up. The plan allows for infrastructure tasks throughout each sprint and accounts for potential slowdowns during implementation of more complex features like the knowledge graph visualization and natural language Q&A.

Product Backlog

The following features were discussed but not included in this initial release:

1. Support for multi-modal content beyond text and code (images, audio, etc.)
2. Advanced AI-powered content generation capabilities
3. Collaborative note-taking functionality
4. Mobile companion application
5. Integration with other note-taking apps for importing content
6. Advanced data visualization for different types of knowledge patterns
7. Spaced repetition learning system integration
8. Voice-to-note dictation capabilities
9. Real-time co-editing of notes
10. Plugin ecosystem for extending functionality