

# QUALITY REVIEW REPORT

Project Size Classification & Effort Estimation

Assessment for Developers, PO & Stakeholders



# Project Classification

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## Not a "Hobby"

This is a properly designed product with extensive conceptual groundwork, not just a weekend experiment.



## Thinking First

The thinking work significantly outweighs the pure coding work. Architecture drives implementation.



## Product Grade

Features a complete testing pyramid, clean abstractions, and modern build orchestration.



# Architecture & Tech Stack

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## Desktop Architecture

A robust Electron setup with clear separation between Main and Renderer processes, secure IPC, and complex build orchestration.

## Data & AI

Clean database abstraction using Kysely with a dual-client setup for prod/test environments. Deep AI integration via OpenAI API.

## Modern Frontend

- React 18 & Vite 6
- Tailwind 4 for styling
- **XState** for robust state machines

## Quality Assurance

A comprehensive testing pyramid covering Unit, Integration, and E2E layers.



# The "Senior" Signal

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## Planning $\gg$ Code

For a project of this caliber, the visible production code is just the tip of the iceberg.

> **Planning:** ~44k lines of material

> **Code:** ~8k lines

> **Tests:** ~10k lines

> This ratio is typical of a senior or staff-level working style, not "code-first".



# Material Volume Indicator

Area	Volume (Approx. Lines)	Notes
Thoughts / Concepts / Planning	~44,200	Dominant volume
Production Code	~8,300	Concise & Efficient
Tests	~9,960	More code than prod!
Documentation	~3,100	Not an afterthought
TOTAL	~65,500 lines	Significant intellectual capital



# Effort Breakdown: Foundation

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## Conceptual Work & Research

250–400 hours

Architecture decisions, tech selection, and iterating on specs. 42 plan files with 30k lines are not a side effect—this is structured product development.



## Architecture & Setup

120–180 hours

Marrying Electron + Vite + TS + ESM. Handling IPC security, dual SQLite clients, and complex build environments.



# Effort Breakdown: Execution

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## Implementation

200–300 hours

UI components, XState machines, DB access, OpenAI integration, and Zod schemas. Strict TS + Desktop context implies a slower but cleaner pace.



## Testing & Documentation

210–320 hours

Designing for testability (mocks for DB/AI), stabilizing E2E tests, writing extensive docs, and ongoing refactoring.

# Total Effort Estimation

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Conservative

~780 hrs

**Realistic**

~1,100 hrs

Thorough

~1,400 hrs

Estimates are based on actual work phases, not just lines of code.



# Calendar Duration

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**Full-Time**

**6–9**

Months

(40h/week)



**Part-Time**

**12–18**

Months

(Alongside work)



**Hobby Mode**

**2+**

Years

(Evenings/Weekends)



# Key Takeaway

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1,000+

Hours of Work

If a single person designed, thought through, and implemented this alone without AI assistance.



# Final Verdict

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*"This project does not look like 'someone just started coding', but like clear mental models, deliberate trade-offs, and product thinking."*



Q & A

Discussion & Feedback



# Image Sources

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[https://miro.medium.com/1\\*5susFVroAWN7Regjn-NOuQ.png](https://miro.medium.com/1*5susFVroAWN7Regjn-NOuQ.png)

Source: [levelup.gitconnected.com](https://levelup.gitconnected.com)



[https://img.freepik.com/free-vector/abstract-dark-blue-vector-futuristic-digital-grid-background\\_53876-110562.jpg](https://img.freepik.com/free-vector/abstract-dark-blue-vector-futuristic-digital-grid-background_53876-110562.jpg)

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