Feasibility report

PROJECT NAME:	SecondBrain
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EXECUTIVE SUMMARY

- This report confirms the feasibility of developing SecondBrain, an LLM-powered application that transforms user uploaded documents into an interactive, personalised knowledge base.

TECHNICAL FEASIBILITY

Architecture is robust and based on standard RAG (Retrieval-Augmented Generation) patterns.

1. Key Technologies: Python, LangChain/LlamaIndex, React/Vue.js.
2. Data Stores: ChromaDB/Pinecone for Vector Embeddings.
3. Cost Management: Utilisation of Groq API and opensource models (Llama 3) to minimise operational expense

MARKET FEASIBILITY

1. Significant gap exists for a product combining personalised knowledge retrieval with adaptive learning tools.
2. Target Users: Students, researchers, and professionals managing large document repositories.
3. Market Opportunity: Offers dynamic quiz generation and insights directly from personal content, unlike generic AI (ChatGPT) or siloed note-taking tools (Notion AI, Obsidian)

USER INSIGHTS

- Top User Pain Points: Organising study materials and time management.
- Most Requested Features: Document upload, long summary generation, and mind map visualisations
- Value proposition : Your professor and study buddy All at Once.

SCHEDULE FEASIBILITY

- Development can be completed within an academic timeframe using efficient, modular planning.
- Estimated Duration: 8-9 weeks depending on course planning .

CONCLUSION

The project is highly feasible. Technical requirements are clear, the target market is receptive, and a viable development schedule is in place. Proceeding with the development of SecondBrain is recommended.