Greg AI Assistant - Project Proposal

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# Executive Summary

Greg is an innovative AI playground designed to democratize access to artificial intelligence by providing a local, private, and free platform for document analysis and question answering. This proposal outlines the vision, technical approach, and implementation plan for Greg.

# Project Overview

Greg addresses three key challenges in the AI landscape:

* Privacy concerns with cloud-based AI services
* High costs of commercial AI APIs
* Complexity of setting up local AI systems

# Technical Specifications

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| Component | Technology | Purpose |
| Frontend | Streamlit | User interface |
| Backend | FastAPI | API services |
| Vector Store | FAISS | Semantic search |
| LLM Engine | Ollama | Local AI models |
| Document Processing | LangChain | Multi-format support |

# Implementation Timeline

Phase 1 (Completed): Basic PDF support with Q&A functionality

Phase 2 (Current): Multi-format document support (TXT, CSV, MD, DOCX)

Phase 3 (Planned): Advanced features including OCR and audio support

# Budget Considerations

Greg is designed to be completely free for end users. The only costs are:

* Electricity for running local compute (~$2/month)
* Initial hardware investment (M3 MacBook Air recommended)

# Success Metrics

The success of Greg will be measured by:

1. Number of active users
2. Document processing accuracy (target: 95%)
3. Response time for queries (target: <5 seconds)
4. Community contributions to the open-source project

# Conclusion

Greg represents a significant step forward in making AI accessible to everyone. By focusing on local processing, privacy, and ease of use, Greg can become the go-to solution for individuals and organizations seeking powerful AI capabilities without the associated costs and privacy concerns of cloud-based solutions.

*Greg AI Assistant - Building the Future of Local AI*