



SysBuddy – AI Chatbot for System Management

AI Champions Bootcamp 2025 Run 2
About Us

Project Scope & Objectives

- Develop a POC prototype for a web-based RAG chatbot that is capable of:
 - a) Uploading project-specific documents (supports document ingestion for project-specific materials) ; and
 - b) Indexing information from URLs (indexes content from both internal and external URLs)
- RAG chatbot acts as a “second system manager” which holds relevant information and knowledge about the project (acts as a virtual assistant to support project knowledge management and decision-making)
- RAG chatbot is built with Python, Streamlit, and LangChain with the project codes stored in Github ([link](#)) and app hosted on Streamlit Community Cloud

Data Sources & Details

S/N	Data Type	Data Sources & Details
1	Documents	a) Envisioned end state will be to sync project documents from team folders (i.e. Sharepoint) b) E.g. Contract documents, monthly reports, payment minutes
2	URL	Envisioned end state will for the app to be able to crawl through and index both internet and intranet URL sites

Notes:

- a) Due to sensitive project documents, only mock data and documents are uploaded for the chatbot's knowledge base
- b) Sensitive credentials (i.e. LLM API keys and app password) are stored securely using Streamlit Community Cloud's built-in Secret Management tool

Features

- Current POC Features
 - Basic password protection for access control
 - Option to choose between OpenAI or Deepseek LLM
 - Ability to create a single knowledge base by uploading PDF documents and/or indexing URL links (using VectorRAG approach)
 - Respond to user chats and queries related to the project.
- Future Roadmap
 - Scalability: Manage multiple knowledge bases
 - Automation: Sync from team folders (e.g. SharePoint) to enable automatic knowledge base updates
 - Security: Advanced account management features
 - Innovation: Add and compare GraphRAG approach