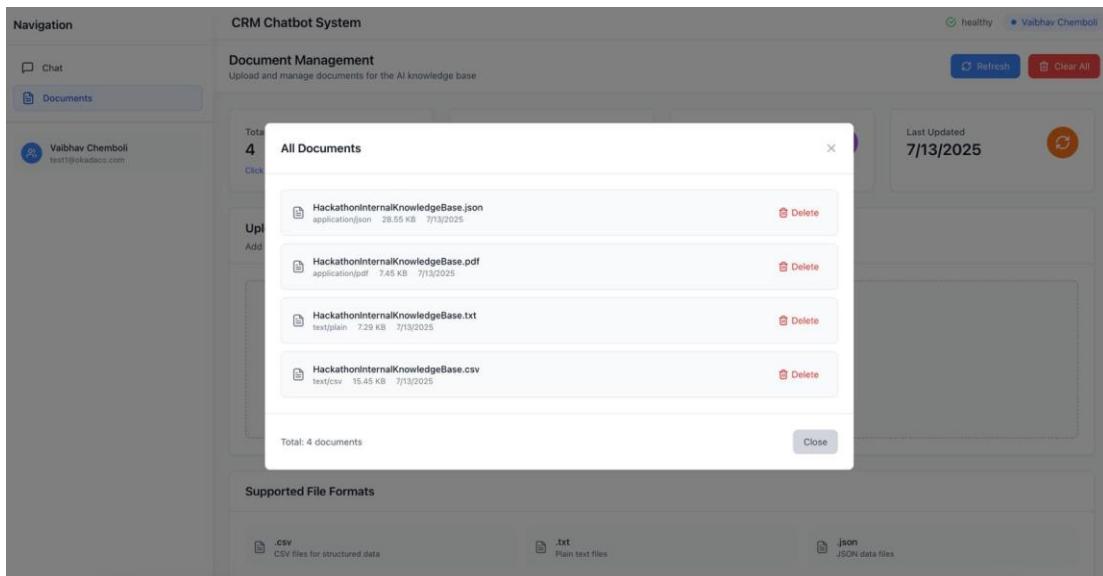


Multi-Agentic Conversational AI System

Please find the features and results of our project here:

Document Management

1. Supports **.csv, .txt, .pdf, and .json** file uploads.
2. Allows viewing, **individual deletion**, or bulk removal of documents.
3. Displays file type, size, and last updated date for each entry.
4. Ensures easy knowledge base updates for RAG agents.



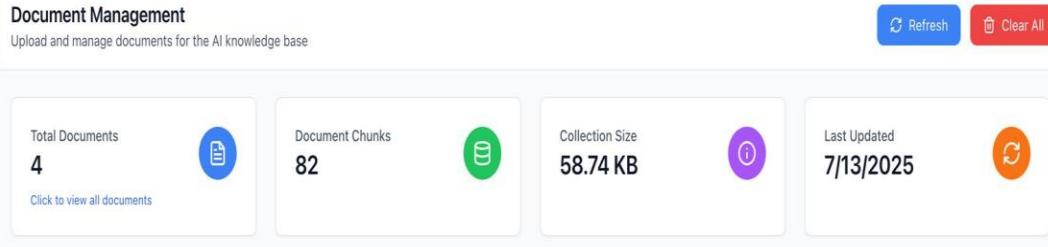
The screenshot shows the 'Document Management' section of the CRM Chatbot System. A modal window titled 'All Documents' is open, displaying a list of four uploaded files:

File Name	Type	Size	Last Updated
HackathonInternalKnowledgeBase.json	application/json	28.65 KB	7/13/2025
HackathonInternalKnowledgeBase.pdf	application/pdf	7.48 KB	7/13/2025
HackathonInternalKnowledgeBase.txt	text/plain	7.29 KB	7/13/2025
HackathonInternalKnowledgeBase.csv	text/csv	15.45 KB	7/13/2025

Below the modal, the main interface shows supported file formats: CSV, TXT, and JSON.

Dashboard Overview

- Displays total number of documents uploaded
- Shows number of document chunks generated for retrieval
- Indicates total collection size in KB
- Provides the last updated date
- Includes options to **Refresh** or **Clear All** data for easy management



User Info & Chat Insights

- Automatically captures and displays user details including **name, company, and email address, role, preferences**
- Shows which AI agent responded (e.g., CRM Assistant, Real Estate Specialist)
- Displays **response time** for performance tracking
- Enables personalized, context-aware conversations based on user input

CRM Agent response:

Navigation: Chat, Documents, Chat History, Search conversations...

CRM Chatbot System: healthy • Lakshmi

Hi, I am Lakshmi I work
AI Assistant - Start chatting and I'll learn about you! + New Chat

Hello! I'm your AI assistant. I can help you with real estate inquiries, customer management, and general questions. How can I assist you today?
Agent: System 07/22 8PM

Hi, I am Lakshmi I work
Hi, I am Lakshmi I work at Okada & Co and ... 07/22 8PM

Hello Lakshmi, welcome back! It's great to see someone from Okada & Co reaching out. How can I assist you today?
Agent: CRM Assistant (3.3%)

Sources:
Hackathoninternalknowledgebase.json (Score: 0.39)
Hackathoninternalknowledgebase.json (Score: 0.38)
Hackathoninternalknowledgebase.json (Score: 0.38)
Hackathoninternalknowledgebase.json (Score: 0.29)
Hackathoninternalknowledgebase.json (Score: 0.29)
07/24 7PM

User Info:
• Name: Lakshmi
• Company: Okada & Co
• Email: venkateshokadem23@gmail.com

Type your message...

Real Estate Agent response:

The screenshot shows a CRM Chatbot System interface. On the left, there's a navigation sidebar with 'Chat' selected. Below it are sections for 'Documents' and 'Chat History' with a search bar. Under 'Chat History', there are five entries: 'What is better buying a space', 'I want a property near time square...', 'I am looking for properties with at least 10...', and two entries from 'Lakshmi Kottapalli'. The main area is titled 'CRM Chatbot System' and shows a message from 'AI Assistant - Start chatting and I'll learn about you!'. It then provides three bullet points: 1. Variable Costs: Rent can increase at the end of each lease term, and you may face additional costs like CAM charges in triple net leases. 2. Lease Control: Modifications to the space often require landlord approval, and there may be restrictions on how you can use the space. 3. Financial Commitments: Given the properties listed in the previous messages, you can see that leasing costs can vary significantly based on size, location, and other factors. These examples should give you a tangible sense of monthly and annual financial commitments involved in renting commercial spaces. The message concludes by stating that ultimately, the better choice depends on your business model, financial capacity, growth projections, and personal preferences. Carefully consider your priorities and financial goals before making a decision. Consulting with a financial advisor or real estate professional can also provide personalized insights based on your specific situation. The message is signed off by 'Agent: Real Estate Specialist (13.23s)'.

User Info:

- Name: Lakshmi Kottapalli
- Company: Okada & Co
- Email: venkatalakshmi23@gmail.com
- Role: Full-time employee

Type your message...

Preferences capturing:

The screenshot shows a database table named 'users' with columns: id, name, email, phone, company, role, preferences, created_at, updated_at, and active. There is one row of data:

id	name	email	phone	company	role	preferences	created_at	updated_at	active
1	Venkatalakshmi Kottapalli	lakshmik...@okada.co...	N...	Okada & Co.	M...	{"office_space_requi..." "More than 8000SqFt in the West Side"}	2025-01-15 00:15:00	2025-01-15 00:15:00	1

⌚ User Info Update from Conversation

- Automatically **extracts and updates user details** like name, company, and email from the chat
- Continuously refreshes user information as new data is shared
- Maintains up-to-date context for more relevant and personalized AI responses

07:24 PM

Actually my full name is Lakshmi Kottapalli

07:25 PM

Hello Lakshmi Kottapalli, thank you for clarifying your full name. How can I assist you further today?

Agent: General Assistant (2.37s)

Sources:

HackathonInternalKnowledgeBase.txt (Score: 0.23)
HackathonInternalKnowledgeBase.txt (Score: 0.23)
HackathonInternalKnowledgeBase.txt (Score: 0.23)
HackathonInternalKnowledgeBase.json (Score: 0.22)
HackathonInternalKnowledgeBase.json (Score: 0.22)

User Info:

- Name: **Lakshmi Kottapalli**
- Company: **Okada & Co**
- Email: **venkatalakshmik23@gmail.com**

Conversation History

- Automatically **stores complete chat history**
- Allows easy retrieval of past messages
- Creates a new session for each new chat

Chat History

Search conversations...

What is better buying a space
What is better buying a space or renting...
Just now | 1 messages

I want a property near time
I want a property near time square...
Just now | 1 messages

I am looking for properties with
I am looking for properties with at least 10,...
Just now | 1 messages

Hi, I am Lakshmi I work
Hi, I am Lakshmi I work at Okada & Co and ...
Just now | 9 messages

Lakshmi Kottapalli
venkatalakshmik23@gmail.com

Backend Endpoints and Functionality:

Health & Core

GET /health - Returns system health status including database connectivity and uptime

GET / - Returns API welcome message and basic system information

GET /{path:path} - Serves React frontend static files for production deployment

Chat System

POST /chat - Processes chat messages using multi-agent system with RAG context and user extraction

POST /reset - Resets conversation history (all conversations, user-specific, or session-specific)

Session Management

POST /sessions/create - Creates new session token for user with configurable expiration

GET /sessions/validate/{session_token} - Validates if session token is active and returns user info

POST /sessions/extend/{session_token} - Extends session expiration by specified hours

POST /sessions/revoke/{session_token} - Revokes/deactivates a specific session token

GET /sessions/user/{user_id} - Lists all sessions for a specific user (active or all)

POST /sessions/cleanup - Removes all expired sessions from database

POST /sessions/create-for-all-users - Creates new sessions for all active users in system

GET /debug/session-status - Returns debug information about session counts and sample data

Document Management

POST /upload_docs - Uploads multiple documents to RAG system (PDF, CSV, JSON, TXT)

GET /rag/stats - Returns RAG collection statistics (document count, embeddings info)

DELETE /rag/clear - Clears all documents from RAG vector database

GET /rag/documents - Lists all documents in RAG system with pagination

DELETE /rag/documents/{filename} - Removes specific document from RAG system

CRM User Management

POST /crm/create_user - Creates new user with contact info and preferences

GET /crm/users - Lists all users with pagination and active status filtering

GET /crm/users/{user_id} - Retrieves detailed user information by ID

PUT /crm/update_user/{user_id} - Updates user information including preferences

GET /crm/users/find/{email} - Finds user by email address

DELETE /crm/users/{user_id} - Soft deletes user (sets inactive status)

Conversation Management

GET /crm/conversations/{user_id} - Lists all conversations for specific user with pagination

GET /crm/conversations/{user_id}/{conversation_id} - Retrieves conversation details with all messages

GET /crm/search - Searches conversations by query text with user filtering

Analytics & Reporting

GET /crm/analytics - Returns overall system analytics or user-specific analytics

GET /crm/users/{user_id}/stats - Returns detailed statistics for specific user

GET /admin/analytics/system - Returns comprehensive system analytics for administrators

GET /admin/analytics/user/{user_id} - Returns detailed user analytics for administrators

GET /admin/analytics/overview - Returns high-level analytics overview for dashboard

Admin Data Management

POST /admin/data/reload - Reloads initial data from data directory into RAG system

POST /admin/data/force-load - Force loads data with progress tracking and detailed logging

GET /admin/data/files - Lists all files in data directory with processing status

Admin System Management

GET /admin/settings - Returns current system configuration settings

PUT /admin/settings - Updates system settings (AI, RAG, chat, security categories)

GET /admin/overview - Returns comprehensive system overview for admin dashboard

GET /admin/health/detailed - Returns detailed system health metrics and resource usage