

# API Contract – Multi-Agentic Conversational AI System

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## 1. Input formats:

/chat [POST]:

```
{
  "user_id": "string",
  "message": "string"
}
```

/upload\_docs [POST]

Uploads documents for indexing and use with Retrieval-Augmented Generation (RAG).

Content-Type: multipart/form-data

Accepted File Types: .csv, .txt, .pdf, .json

/crm/create\_user [POST]

```
{
  "user_id": "string",
  "name": "string",
  "email": "string",
  "company": "string",
  "preferences": "string"
}
```

/crm/update\_user

```
{
  "user_id": "string",
  "updates": {
    "email": "new_email@example.com",
    "preferences": "updated"
  }
}
```

/crm/conversations/{user\_id} [GET]:

Returns full conversation history for the specified user.

/reset [POST]:

```
{
  "user_id": "string"
}
```

## 2. Response Schema

\chat:

```
{
  "user_id": "swe1",
  "message": "What is the monthly rent fro Tia Dlama whose Property Address: 8 W 38th St?"
}
```

```
{
  "user_id": "swe1",
  "message": "What is the monthly rent fro Tia Dlama whose Property Address: 8 W 38th St?",
  "response": "The monthly rent for Tia Dalma at the property address 8 W 38th St is $149,190.",
  "rag_context_used": "unique_id: 206\nProperty Address: 8 W 38th St\nFloor: P11\nSuite: 1103\nSize (SF): 19892\nRent/SF/Year: $90.00\nAssociate 1: Tia Dalma\nBROKER Email ID: test2@okadaco.com\nAssociate 2: Jon Snow\nAssociate 3: Meemaw\nAssociate 4: Max Verstappen\nAnnual Rent: $1,790,280\nMonthly Rent: $149,190\nGCI On 3 Years: $322,250\n\nunique_id: 164\nProperty Address: 139 Fifth Ave\nFloor: E6\nSuite: 600\nSize (SF): 15661\nRent/SF/Year: $99.00\nAssociate 1: Tia Dalma\nBROKER Email ID: test2@okadaco.com\nAssociate 2: Jon Snow\nAssocia"
}
```

/crm/create\_user

```
{
  "message": "User swe2 created successfully."
}
```

/crm/conversations/{user\_id}

```

{
  "user_id": "swel",
  "conversations": [
    {
      "user_id": "swel",
      "message": "What is the monthly rent fro Tina Dalama?",
      "response": "I'm sorry for the confusion in the question, but based on the provided context,
Tia Dalma is associated with three properties, and I can provide the monthly rent for each
one:\n\n1. Property Address: 8 W 38th St, Floor: P11, Suite: 1103, Monthly Rent:
$149,190\n2. Property Address: 171 Elizabeth St, Floor: P6, Suite: 768, Monthly Rent:
$173,937\n3. Property Address: 269 W 39th St, Floor: -, Suite: 810, Monthly Rent:
$115,935\n\nPlease let me know if you need information on something else.",
      "context": "unique_id: 206\nProperty Address: 8 W 38th St\nFloor: P11\nSuite: 1103\nSize
(SF): 19892\nRent/SF/Year: $90.00\nAssociate 1: Tia Dalma\nBROKER Email ID:
test2@okadaco.com\nAssociate 2: Jon Snow\nAssociate 3: Meemaw\nAssociate 4: Max
Verstappen\nAnnual Rent: $1,790,280\nMonthly Rent: $149,190\nGCI On 3 Years:
$322,250\n\nunique_id: 223\nProperty Address: 171 Elizabeth St\nFloor: P6\nSuite: 768\nSize
(SF): 19507\nRent/SF/Year: $107.00\nAssociate 1: Tia Dalma\nBROKER Email ID:
test2@okadaco.com\nAssociate 2: Arya Stark\nAssociate 3: Sheldon Cooper\nAssociate 4:
Oscar Piastrì\nAnnual Rent: $2,087,249\nMonthly Rent: $173,937\nGCI On 3 Years:
$375,705\n\nunique_id: 142\nProperty Address: 269 W 39th St\nFloor: -\nSuite: 810\nSize
(SF): 13507\nRent/SF/Year: $103.00\nAssociate 1: Tia Dalma\nBROKER Email ID:
test2@okadaco.com\nAssociate 2: Jon Snow\nAssociate 3: Dr. Linkletter\nAssociate 4: Oscar
Piastrì\nAnnual Rent: $1,391,221\nMonthly Rent: $115,935\nGCI On 3 Years: $250,420",
      "timestamp": "2025-07-13T18:43:27.231000"
    },
    {
      "user_id": "swel",
      "message": "What is the monthly rent fro Tia Dlama whose property address is 314 E 34?",
      "response": "The context provided does not include information about a property with the
address 314 E 34 and associated with Tia Dalma. Therefore, it's not possible to answer this
question without additional information.",
      "context": "unique_id: 206\nProperty Address: 8 W 38th St\nFloor: P11\nSuite: 1103\nSize
(SF): 19892\nRent/SF/Year: $90.00\nAssociate 1: Tia Dalma\nBROKER Email ID:
test2@okadaco.com\nAssociate 2: Jon Snow\nAssociate 3: Meemaw\nAssociate 4: Max
Verstappen\nAnnual Rent: $1,790,280\nMonthly Rent: $149,190\nGCI On 3 Years:
$322,250\n\nunique_id: 223\nProperty Address: 171 Elizabeth St\nFloor: P6\nSuite: 768\nSize
(SF): 19507\nRent/SF/Year: $107.00\nAssociate 1: Tia Dalma\nBROKER Email ID:
test2@okadaco.com\nAssociate 2: Arya Stark\nAssociate 3: Sheldon Cooper\nAssociate 4:
Oscar Piastrì\nAnnual Rent: $2,087,249\nMonthly Rent: $173,937\nGCI On 3 Years:
$375,705\n\nunique_id: 127\nProperty Address: 155 E 55th St\nFloor: P6\nSuite: 6A\nSize
(SF): 16931\nRent/SF/Year: $92.00\nAssociate 1: Tia Dalma\nBROKER Email ID:
test2@okadaco.com\nAssociate 2: Daenerys Targaryen\nAssociate 3: Dr. Sturgis\nAssociate 4:
Charles Leclerc\nAnnual Rent: $1,557,652\nMonthly Rent: $129,804\nGCI On 3 Years:
$280,377",
      "timestamp": "2025-07-13T18:45:48.133000"
    },
    {
      "user_id": "swel",

```

```

    "message": "What is the monthly rent fro Tia Dlama whose property address starts with is
314 E 34?",
    "response": "I am unable to find the exact property you are looking for in the provided
context. However, I can tell you that Tia Dalma's associated monthly rents for the properties
listed are as follows:\n\n- Property Address: 8 W 38th St, Monthly Rent: $149,190\n- Property
Address: 171 Elizabeth St, Monthly Rent: $173,937\n- Property Address: 269 W 39th St,
Monthly Rent: $115,935\n\nPlease double-check the property address or provide more
information.",
    "context": "unique_id: 206\nProperty Address: 8 W 38th St\nFloor: P11\nSuite: 1103\nSize
(SF): 19892\nRent/SF/Year: $90.00\nAssociate 1: Tia Dalma\nBROKER Email ID:
test2@okadaco.com\nAssociate 2: Jon Snow\nAssociate 3: Meemaw\nAssociate 4: Max
Verstappen\nAnnual Rent: $1,790,280\nMonthly Rent: $149,190\nGCI On 3 Years:
$322,250\n\nunique_id: 223\nProperty Address: 171 Elizabeth St\nFloor: P6\nSuite: 768\nSize
(SF): 19507\nRent/SF/Year: $107.00\nAssociate 1: Tia Dalma\nBROKER Email ID:
test2@okadaco.com\nAssociate 2: Arya Stark\nAssociate 3: Sheldon Cooper\nAssociate 4:
Oscar Piastrì\nAnnual Rent: $2,087,249\nMonthly Rent: $173,937\nGCI On 3 Years:
$375,705\n\nunique_id: 142\nProperty Address: 269 W 39th St\nFloor: -\nSuite: 810\nSize
(SF): 13507\nRent/SF/Year: $103.00\nAssociate 1: Tia Dalma\nBROKER Email ID:
test2@okadaco.com\nAssociate 2: Jon Snow\nAssociate 3: Dr. Linkletter\nAssociate 4: Oscar
Piastrì\nAnnual Rent: $1,391,221\nMonthly Rent: $115,935\nGCI On 3 Years: $250,420",
    "timestamp": "2025-07-13T18:46:11.834000"
  },
  {
    "user_id": "swel",
    "message": "What is the monthly rent fro Tia Dlama whose Property Address: 8 W 38th
St?",
    "response": "The monthly rent for Tia Dalma at the property address 8 W 38th St is
$149,190.",
    "context": "unique_id: 206\nProperty Address: 8 W 38th St\nFloor: P11\nSuite: 1103\nSize
(SF): 19892\nRent/SF/Year: $90.00\nAssociate 1: Tia Dalma\nBROKER Email ID:
test2@okadaco.com\nAssociate 2: Jon Snow\nAssociate 3: Meemaw\nAssociate 4: Max
Verstappen\nAnnual Rent: $1,790,280\nMonthly Rent: $149,190\nGCI On 3 Years:
$322,250\n\nunique_id: 164\nProperty Address: 139 Fifth Ave\nFloor: E6\nSuite: 600\nSize
(SF): 15661\nRent/SF/Year: $99.00\nAssociate 1: Tia Dalma\nBROKER Email ID:
test2@okadaco.com\nAssociate 2: Jon Snow\nAssociate 3: Dr. Sturgis\nAssociate 4: Charles
Leclerc\nAnnual Rent: $1,550,439\nMonthly Rent: $129,203\nGCI On 3 Years:
$279,079\n\nunique_id: 223\nProperty Address: 171 Elizabeth St\nFloor: P6\nSuite: 768\nSize
(SF): 19507\nRent/SF/Year: $107.00\nAssociate 1: Tia Dalma\nBROKER Email ID:
test2@okadaco.com\nAssociate 2: Arya Stark\nAssociate 3: Sheldon Cooper\nAssociate 4:
Oscar Piastrì\nAnnual Rent: $2,087,249\nMonthly Rent: $173,937\nGCI On 3 Years:
$375,705",
    "timestamp": "2025-07-13T18:46:52.267000"
  }
]
}

```

### 3. Sample API Calls

**POST /chat**

```
curl -X POST http://localhost:8000/chat -H "Content-Type: application/json" -d
'{"user_id": "swetha123",
"message": "What is RAG?"}'
```

**GET /crm/conversations/swetha123**

curl <http://localhost:8000/crm/conversations/swetha123>

**POST /reset**

```
curl -X POST http://localhost:8000/reset -H "Content-Type: application/json" -d
'{"user_id": "swetha123"}'
```