

Partner AI Agent Integration Requirements Gathering

1. Overview

This document outlines some of the concepts for TurboDocx's AI Agents for retrieving data within your platform. We show a mock REST API Design and Database schema, and explain how TurboDocx traverses your APIs.

2. API Requirements

- **Authentication:** For proof of concepts, we prefer API Key authentication, but we can support OAuth at a later point.
- **Data Format:** JSON over HTTP.
- **Rate Limits:** Please provide example documentation on rate limit throttles.
- **Error Handling:** Partners should provide documentation on their error handling mechanisms.

3. Partner REST API Design Example

3.1 Endpoints

Method	Endpoint	Description
GET	/projects	Fetch all projects
GET	/projects/{id}	Fetch a single project by ID
GET	/contacts/{id}	Fetch a single contact by ID
GET	/deals/{id}	Fetch a single deal by ID

3.2 UML Table Schema Mapping Example

Projects Table

Field	Type	Notes
id	UUID	Primary Key
name	String	Project name
description	Text	Project details
contact_id	UUID	Foreign Key to Contacts
deal_id	UUID	Foreign Key to Deals
created_at	Timestamp	Auto-generated
updated_at	Timestamp	Auto-updated

Contacts Table

Field	Type	Notes
id	UUID	Primary Key
name	String	Contact name
email	String	Contact email
phone	String	Contact phone

Deals Table

Field	Type	Notes
id	UUID	Primary Key
name	String	Deal name
amount	Decimal	Deal value
status	String	Deal status

3.3 Example: Fetching a Project

Note: This section is an example of how TurboDocx likes to integrate to get a full context of the data the user is requesting for our AI to process the information.

Scenario: Suppose we are integrating with a CRM and need to fetch project details for "Project Alpha."

Request:

```
GET /projects/123e4567-e89b-12d3-a456-426614174000
```

Response:

```
{
  "id": "123e4567-e89b-12d3-a456-426614174000",
  "name": "Project Alpha",
  "description": "CRM implementation for Client X",
  "created_at": "2024-02-27T10:00:00Z",
  "updated_at": "2024-02-27T12:00:00Z"
}
```

3.4 Example: Fetching Related Records Recursively

Note: This section is an example of how TurboDocx likes to integrate to get a full context of the data the user is requesting for our AI to process the information.

Scenario: Fetch all related contacts and deals for "Project Alpha" by making separate calls using IDs from previous responses.

Step 1: Fetch Project Details

Request:

```
GET /projects/123e4567-e89b-12d3-a456-426614174000
```

Response:

```
{
  "id": "123e4567-e89b-12d3-a456-426614174000",
  "name": "Project Alpha",
  "description": "CRM implementation for Client X",
  "contact_id": "987e4567-e89b-12d3-a456-426614174000",
  "deal_id": "654e4567-e89b-12d3-a456-426614174000"
}
```

Step 2: Fetch Contact Details

Note: Using the `contact_id` from the previous API call.

Request:

```
GET /contacts/987e4567-e89b-12d3-a456-426614174000
```

Response:

```
{
  "id": "987e4567-e89b-12d3-a456-426614174000",
  "name": "John Doe",
  "email": "john.doe@example.com",
  "phone": "+1-555-1234"
}
```

Step 3: Fetch Deal Details

Note: Using the `deal_id` from the previous API call.

Request:

```
GET /deals/654e4567-e89b-12d3-a456-426614174000
```

Response:

```
{
  "id": "654e4567-e89b-12d3-a456-426614174000",
  "name": "Enterprise Software Sale",
  "amount": 50000,
  "status": "Closed-Won"
}
```

Step 4: (On the TurboDocx side, we will aggregate this data into a structured format for AI processing, as shown below)

Note: When working with AI, human-readable JSON improves performance. The clearer the data, the smarter the AI.

```
{
  "project": {
    "id": "123e4567-e89b-12d3-a456-426614174000",
    "name": "Project Alpha",
    "description": "CRM implementation for Client X",
    "contact": {
      "id": "987e4567-e89b-12d3-a456-426614174000",
      "name": "John Doe",
      "email": "john.doe@example.com",
      "phone": "+1-555-1234"
    },
  },
  "deal": {
    "id": "654e4567-e89b-12d3-a456-426614174000",
    "name": "Enterprise Software Sale",
    "amount": 50000,
    "status": "Closed-Won"
  }
}
```

4. Key Mapping and Documentation

If any keys in the API responses are unclear or not self-explanatory, **Partners should provide documentation** mapping API fields to friendly names and where they appear in the Partner's UI. This helps our AI identify what is important.

Example Mapping:

API Key	UI Display Name
project_val	Project Name
contact_person	Primary Contact Name
deal_amount	Total Deal Value

5. Batch Endpoints

Does your API support batch operations? If so, please provide details on how they work, including:

- Available batch operations (e.g., fetching multiple projects at once, bulk updates)
- Request and response format
- Rate limits for batch processing
- Any specific considerations for batch operations