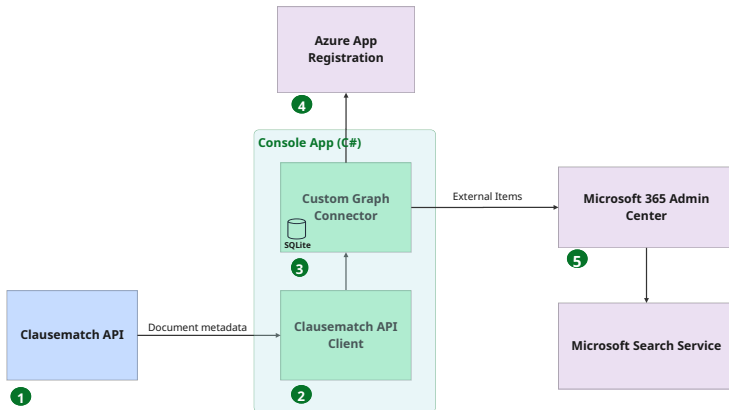


Clausematch Graph Connector



1. Clausematch API:

- RESTful source for document metadata, including fields like Document ID, Title, Version, Document Class, Type, Categories, and Last Modified Date.
- Token based Authentication

2. Clausematch API Client (C#):

- Interfaces with the Clausematch REST API.
- Handles pagination, parsing, and transforms data into the required External Item schema.

3. Custom Graph Connector (Console App C#)

- Directly interacts with Microsoft Graph using the Graph SDK.
- Creates the external connection and defines the schema in Microsoft Graph.
- Adds or updates items in the Microsoft Search index.
- **SQLite** -
 - Serves as a lightweight local staging database with a single table mirroring the index schema.
 - Supports change detection and avoids redundant uploads.
 - Functions as a delta engine to prevent duplicates.

4. Azure App Registration - Enables secure access to Microsoft Graph API using API permissions:

- ExternalConnection.ReadWrite.OwnedBy
- ExternalItem.ReadWrite.All
- Directory.Read.All

5. Microsoft 365 Admin Center Configuration

- Enable the Connection
- Create a Vertical
- Define the result type for display in Microsoft Search.

Future Enhancements and Cloud Portability:

The current console app can easily be converted to an **Azure Function**:

- Replace SQLite with **Azure Cosmos DB**.
- Use **Azure Key Vault** to manage secrets.
- Trigger via **Timer Trigger** (e.g., every week or day).
- Add **Application Insights** for monitoring.