

Contact Data Standardization Backend

API Reference

This document details the RESTful API endpoints exposed by the Flask/Gunicorn backend service, primarily supporting the company cleanup and management tools. All endpoints use the base path `/api/`.

1. Company Mapping and Cleanup Endpoints

These endpoints are used exclusively by the **Raw Name Mapping Tool** (`app.js`).

1.1 GET `/api/unmapped_list`

Retrieves a list of all unique company names (`contacts.company`) that do not yet have an entry in the `company_name_mapping` table.

Detail	Specification
Method	GET
URL	<code>/api/unmapped_list</code>
Response	200 OK
Content Type	<code>application/json</code>

Success Response Body:

```
{
  "raw_names": [
    "Google Inc.",
    "Googlle",
    "Acme Corp LTD",
    "The New Company"
  ]
}
```

1.2 GET `/api/suggestions`

Searches for existing clean company names (`companies.company_name_clean`) based on a

query string, typically used for autocomplete when mapping.

Detail	Specification
Method	GET
URL	/api/suggestions
Query Param	q (string): The search query (e.g., ?q=goo).
Response	200 OK

Success Response Body:

```
{
  "suggestions": [
    {
      "company_id": 1,
      "company_name_clean": "Google"
    },
    {
      "company_id": 2,
      "company_name_clean": "Microsoft"
    }
  ]
}
```

1.3 POST /api/map_company

Submits a mapping decision for a specific raw company name. This endpoint handles three primary actions: mapping to existing, creating a new profile and mapping, or skipping.

Detail	Specification
Method	POST
URL	/api/map_company
Request	application/json
Response	200 OK / 500 Internal Server Error

Request Body Schema:

Field	Type	Required	Description
raw_name	string	Yes	The unstandardized name being processed.
action	string	Yes	Must be "map" or "skip".
clean_name	string	Conditionally	Required if action is "map". The target clean name.
target_interest	boolean	Optional	Used during batch processing to set target_interest on a newly created company profile.

Logic Flow:

1. If action is "skip", the raw_name is mapped to itself (self-mapping).
2. If action is "map":
 - a. The backend attempts to find an existing companies record with company_name_clean matching clean_name.
 - b. If found, a new entry is created in company_name_mapping linking raw_name to the existing company_id.
 - c. If not found, a new record is created in the companies table using clean_name (and optional target_interest), and the mapping is created.

Success Response Body:

```
{  
  "status": "success",  
  "message": "Raw name 'Google Inc.' mapped to clean company 'Google'.",  
}
```

2. Company Management Endpoints

These endpoints are used by the **Company Management Tool** (management.js) for viewing

and modifying clean profiles.

2.1 GET /api/companies

Retrieves a list of all standardized company profiles. Supports optional filtering.

Detail	Specification
Method	GET
URL	/api/companies
Response	200 OK

Query Parameters (Optional, used by `company_list.js`):

Parameter	Example Value	Description
target_interest	true or false	Filters by the company's target interest status.
search	Acme	Filters results where <code>company_name_clean</code> contains the string.

Success Response Body:

```
{
  "companies": [
    {
      "company_id": 1,
      "company_name_clean": "Google",
      "target_interest": true,
      "size_employees": 150000,
      "annual_revenue": 282.8,
      "revenue_scale": "B",
      "headquarters": "Mountain View, CA",
      "notes": "High priority target for Q4."
    },
    // ... more companies
  ]
}
```

2.2 GET /api/companies/{company_id}

Retrieves the full detail of a single standardized company profile.

Detail	Specification
Method	GET
URL	/api/companies/{id}
Path Param	{company_id} (integer)
Response	200 OK / 404 Not Found

Success Response Body:

```
{
  "company": {
    "company_id": 1,
    "company_name_clean": "Google",
    "target_interest": true,
    // ... all fields from the 'companies' table
  }
}
```

2.3 PUT /api/companies/{company_id}

Updates all editable fields for an existing standardized company profile.

Detail	Specification
Method	PUT
URL	/api/companies/{id}
Path Param	{company_id} (integer)
Request	application/json
Response	200 OK / 500 Internal Server Error

Request Body Schema (Mandatory Fields for Update):

The request body must include all fields defined in the companies table (excluding company_id) as defined in contact_db_design.md:

```
{  
  "company_name_clean": "Google",  
  "target_interest": true,  
  "size_employees": 150000,  
  "annual_revenue": 282.8,  
  "revenue_scale": "B",  
  "headquarters": "Mountain View, CA",  
  "notes": "High priority target for Q4."  
}
```

Success Response Body:

```
{  
  "status": "success",  
  "message": "Company ID 1 updated."  
}
```