API Documentation: StockFlow

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1. Company API

The Company API folder manages company records and monitors stock levels, providing endpoints to create, read, and track companies and their inventory alerts.

1.1 Add Company

It creates a new company.

- **Endpoint:** POST /api/company
- **Description:** This endpoint registers a new company in the system.

Request Body Schema:

Field	Type	Description	Required
name	String	Company name	Yes
address	String	Full address of the company	Yes
contactNo	String	Contact number including country code	Yes
registeredEmail	String	Registered email of the company (email format)	Yes

Example Request Body:

JSON
```
{
  "name": "Bynry",
  "address": "Pune, Maharashtra, India",
  "contactNo": "+91-2345678901",
  "registeredEmail": "contact@bynry.com"
}
```

1.2 Get All Companies

Returns all the companies.

- **Endpoint:** GET /api/company
- **Description:** Retrieves a list of all companies registered in the system.

1.3 Get Company By Id

Get the Company by Id.

- **Endpoint:** GET /api/company/{id}
- **Description:** Retrieves the details of a specific company using its unique ID.
- **Path Parameter:**
  - id: The unique identifier of the company.

1.4 Low Stock Alerts

Gives all the low-stock alerts for all the warehouses managed by the company.

- **Endpoint:** GET /api/company/{companyId}/alerts/low-stock
- **Description:** Fetches a list of products that have fallen below their defined stock threshold for a specific company.
- **Path Parameter:**
  - companyId: The unique identifier of the company.

2. Supplier API

The Supplier API folder manages supplier APIs such as creating and getting all the suppliers.

2.1 Add Supplier

Creates a new supplier.

- **Endpoint:** POST /api/supplier
- **Description:** This endpoint adds a new supplier to the system.

Example Request Body:

```
JSON
{
  "id": "sup002",
  "name": "Global Traders Ltd",
  "address": "123 Business Park, Andheri, Mumbai, Maharashtra, India",
  "contactNo": "9876543210",
  "registeredEmail": "contact@globaltraders.com"
}
```

2.2 Get All Suppliers

Returns the list of all the suppliers.

- **Endpoint:** GET /api/supplier
- **Description:** Retrieves a complete list of all suppliers.

2.3 Get Supplier By Id

Returns the supplier by Id.

- **Endpoint:** GET /api/supplier/{id}
- **Description:** Retrieves a specific supplier by their unique ID. If the supplier is not found, it returns a 404 - Not Found error.
- **Path Parameter:**
  - id: The unique identifier of the supplier.

3. Warehouse API

Handles APIs related to the creation and retrieval of warehouses.

3.1 Add Warehouse

Creates a new warehouse.

- **Endpoint:** POST /api/warehouse
- **Description:** This endpoint creates a new warehouse associated with a company.

Request Body Schema:

Field	Type	Description	Required
name	String	Name of the warehouse	Yes
companyId	String	ID of the company this warehouse belongs to (UUID format)	Yes

Example Request Body:

```JSON
{
   "name" : "Ware House 2",
   "companyId" : "18b8271b-f800-47a8-920c-fa82276f7a89"
}
```

3.2 Get Warehouse by Company

Get warehouses by company Id.

- **Endpoint:** GET /api/warehouse/company/{id}
- **Description:** Retrieves all warehouses that belong to a specific company.
- **Path Parameter:**
  - id: The unique identifier of the company.

4. Products API

Handles all the APIs related to Products.

4.1 Get All Products By Company

Returns all the products of a company.

- **Endpoint:** GET /api/products/company/{id}
- **Description:** Retrieves a list of all products owned by a specific company.
- **Path Parameter:**
  - id: The unique identifier of the company.

4.2 Add Product

Adds a new product to a company with a unique SKU.

- **Endpoint:** POST /api/products
- **Description:** This endpoint adds a new product record.

Request Body Schema:

Field	Type	Description	Required
companyId	String	ID of the company that owns this product (UUID format)	Yes
supplierId	Array	List of supplier IDs associated with this product	Yes
sku	String	Unique Stock Keeping Unit identifier for the product	Yes
price	Number	Price of the product	Yes
name	String	Name of the product	Yes
description	String	Detailed description of the product	No

Example Request Body:

JSON
```
{
  "companyId": "18b8271b-f800-47a8-920c-fa82276f7a89",
  "supplierId": ["5fa4d09f-0227-45d7-8cf9-f0c5ae2ee817",
"daaf72e9-5f21-4382-a5c8-4208d3689482"],
  "sku": "PROD-12345",
  "price": 499.99,
  "name": "Dummy Product Name",
  "description": "This is a dummy product used for testing purposes."
}
```

4.3 Get Product By Id

Returns the product by Id.

- **Endpoint:** GET /api/products/{id}
- **Description:** Retrieves a specific product using its unique ID.
- **Path Parameter:**
  - id: The unique identifier of the product.

5. Inventory API

Manages all the APIs related to Inventory.

5.1 Add Product To Inventory

Adds a new product to the inventory.

- **Endpoint:** POST /api/inventory
- **Description:** This endpoint is used to add an initial stock of a product into a specific warehouse's inventory.

Request Body Schema:

Field	Type	Description	Required
productId	String	Unique ID of the product (UUID format)	Yes
warehouseId	String	Unique ID of the warehouse where stock is held (UUID format)	Yes
quantity	Integer	Number of items to add to stock	Yes
threshold	Integer	Minimum threshold quantity for alerting low stock	Yes
changeType	String	Type of stock change (e.g., INITIAL_STOCK, RESTOCK)	Yes
note	String	Optional note about the stock change	No

Example Request Body:

JSON
```
{
  "productId": "537d8e6e-2768-42cf-b0cc-e56249ad2740",
  "warehouseId": "59ee2019-3545-4c5b-8089-3734718cd723",
  "quantity": 10,
  "threshold": 10,
  "changeType": "INITIAL_STOCK",
```

```
    "note": "Initial stock added"
}
```

5.2 Update Inventory Product

Updates the Inventory.

- **Endpoint:** PUT /api/inventory
- **Description:** Updates an existing inventory record, for example, after a sale or restock event.

Request Body Schema:

Field	Type	Description	Required
id	String	Unique ID of the inventory record (UUID format)	Yes
quantity	Integer	Updated quantity of the product	Yes
threshold	Integer	Minimum threshold quantity for alerting low stock	Yes
changeType	String	Type of stock change (e.g., SOLD, RETURN, RESTOCK)	Yes
note	String	Optional note about the stock change	No

Example Request Body:

JSON
```
{
    "id" :"7de5cf37-9605-4b6b-a741-d7682ac85066",
    "quantity": 9,
    "threshold": 10,
    "changeType": "SOLD",
    "note": "SOLD ONE UNIT"
}
```

5.3 Get Inventory By Warehouse

Returns all the products in a warehouse.

- **Endpoint:** GET /api/inventory/warehouse/{warehouseId}
- **Description:** Retrieves a list of all inventory items for a specific warehouse.
- **Path Parameter:**
    - warehouseId: The unique identifier of the warehouse.