Inventory Control System API Documentation

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Authentication

Login

Authenticate user and generate JWT token. Requires no authentication.

Endpoint: POST /api/auth/login

Request Body:

```
{
    "identifier": "user@example.com",
    "password": "userPassword123"
}
```

Success Response (200 OK):

```
{
    "status": 200,
    "message": "Login successful",
    "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..."
}
```

Error Response (401 Unauthorized):

```
{
    "status": 401,
    "message": "Invalid credentials"
}
```

Users

Register User

Creates a new user account in the system. Requires JWT Bearer token with ADMIN role.

Endpoint: POST /api/users/register

Request Body:

```
{
    "username": "john_doe",
    "email": "john.doe@example.com",
    "password": "securePassword123",
    "firstName": "John",
    "lastName": "Doe",
    "role": "ADMIN"
}
```

Successful Response (201 Created):

```
{
    "status": 201,
    "message": "User registered successfully",
    "user": {
        "id": 1,
        "username": "john_doe",
        "email": "john.doe@example.com",
        "firstName": "John",
        "lastName": "Doe",
        "role": "ADMIN"
    }
}
```

Failed Response (400 Bad Request):

```
{
    "status": 400,
    "errors": [
        "username: must not be blank",
        "email: must be a valid email address",
        "password: must be at least 8 characters long"
]
}
```

Update User

Updates existing user information. Requires JWT Bearer token with OWNER role.

Endpoint: PUT /api/users/update/{userId}

Request Body:

```
{
    "email": "john.updated@example.com",
    "firstName": "Johnny",
    "lastName": "Doe",
    "role": "USER"
}
```

Successful Response (200 OK):

```
{
    "status": 200,
    "message": "User updated successfully",
    "user": {
        "id": 1,
        "username": "john_doe",
        "email": "john.updated@example.com",
        "firstName": "Johnny",
        "lastName": "Doe",
        "role": "USER"
    }
}
```

Failed Response (404 Not Found):

```
{
    "status": 404,
    "message": "User not found with ID: 1"
}
```

Get User by ID

Retrieves user information by their ID. Requires JWT Bearer token with OWNER role.

Endpoint: GET /api/users/{userId}

Successful Response (200 OK):

```
{
    "status": 200,
    "user": {
        "id": 1,
        "username": "john_doe",
        "email": "john.doe@example.com",
        "firstName": "John",
        "lastName": "Doe",
        "role": "ADMIN"
    }
}
```

Failed Response (404 Not Found):

```
{
    "status": 404,
    "message": "User not found with ID: 1"
}
```

Get All Users

Retrieves a list of all users in the system. Requires JWT Bearer token with OWNER role.

Endpoint: GET /api/users/all

Successful Response (200 OK):

```
"status": 200,
"users": [
    {
        "id": 1,
        "username": "john_doe",
        "email": "john.doe@example.com",
        "firstName": "John",
        "lastName": "Doe",
        "role": "ADMIN"
    },
        "id": 2,
        "username": "jane_smith",
        "email": "jane.smith@example.com",
        "firstName": "Jane",
        "lastName": "Smith",
        "role": "USER"
    }
]
```

Delete User

Removes a user from the system. Requires JWT Bearer token with OWNER role.

Endpoint: DELETE /api/users/delete/{userId}

Successful Response (200 OK):

```
{
    "status": 200,
    "message": "User with ID: 1 deleted successfully."
}
```

Failed Response (404 Not Found):

```
{
    "status": 404,
    "message": "User not found with ID: 1. Unable to delete non-existent user."
}
```

Suppliers

Create Supplier

Create a new supplier. Requires JWT Bearer token with OWNER role.

Endpoint: POST /api/suppliers/create

Request Body:

```
{
    "name": "Supplier Name",
    "email": "supplier@example.com",
    "phone": "+1234567890",
    "address": "Supplier Address",
    "contactPerson": "John Doe"
}
```

Success Response (201 Created):

```
"status": 201,
   "message": "Supplier created successfully",
   "supplier": {
        "id": 1,
        "name": "Supplier Name",
        "email": "supplier@example.com",
        "phone": "+1234567890",
        "address": "Supplier Address",
        "contactPerson": "John Doe"
   }
}
```

Error Response (400 Bad Request):

```
{
    "status": 400,
    "errors": [
         "name: must not be blank",
         "email: must be a valid email"
    ]
}
```

Update Supplier

Update an existing supplier's details. Requires JWT Bearer token with OWNER role.

Endpoint: PUT /api/suppliers/update/{id}

Request Body:

```
{
    "name": "Updated Supplier Name",
    "email": "updated@example.com",
    "phone": "+1987654321",
    "address": "Updated Address",
    "contactPerson": "Jane Doe"
}
```

Success Response (200 OK):

```
{
    "status": 200,
    "message": "Supplier updated successfully",
    "supplier": {
        "id": 1,
        "name": "Updated Supplier Name",
        "email": "updated@example.com",
        "phone": "+1987654321",
        "address": "Updated Address",
        "contactPerson": "Jane Doe"
    }
}
```

Error Response (404 Not Found):

```
{
    "status": 404,
    "message": "Supplier not found"
}
```

Get Supplier by ID

Retrieve supplier details by ID. Requires JWT Bearer token with OWNER role.

Endpoint: GET /api/suppliers/{id}

Success Response (200 OK):

```
{
    "status": 200,
    "supplier": {
        "id": 1,
        "name": "Supplier Name",
        "email": "supplier@example.com",
        "phone": "+1234567890",
        "address": "Supplier Address",
        "contactPerson": "John Doe"
    }
}
```

Error Response (404 Not Found):

```
{
    "status": 404,
    "message": "Supplier not found"
}
```

Get All Suppliers

Retrieve all suppliers. Requires JWT Bearer token with OWNER role.

Endpoint: GET /api/suppliers/all

```
"status": 200,
    "suppliers": [
        {
            "id": 1,
            "name": "Supplier 1",
             "email": "supplier1@example.com",
             "phone": "+1234567890",
            "address": "Address 1",
            "contactPerson": "John Doe"
        },
            "id": 2,
            "name": "Supplier 2",
            "email": "supplier2@example.com",
             "phone": "+1987654321",
             "address": "Address 2",
            "contactPerson": "Jane Doe"
        }
    ]
}
```

Delete Supplier

Delete a supplier. Requires JWT Bearer token with OWNER role.

Endpoint: DELETE /api/suppliers/delete/{id}

Success Response (200 OK):

```
{
    "status": 200,
    "message": "Supplier deleted successfully with ID: 1"
}
```

Error Response (404 Not Found):

```
{
    "status": 404,
    "message": "Supplier not found with ID: 1"
}
```

CSV Operations

Import Products

Imports product data from a CSV file. Requires JWT Bearer token with OWNER role.

Endpoint: POST /api/csv/import/products

Request:

Content-Type: multipart/form-data

Parameter: file (CSV file)

CSV Format:

ID, Name, SKU, Price, Quantity, MinStock Level, Category, Status, Supplier Id, Created At, Updated At, Control of the Control of C

```
1,Lego City Set,LCS,49.99,50,10,TOYS,ACTIVE,2,2023-09-01T10:00:00,2023-11-01T12:00:00
2,BMW Toy Car,BMWTC,24.99,40,10,TOYS,ACTIVE,1,2023-04-01T10:00:00,2023-11-01T12:00:00
```

Successful Response (200 OK):

```
"status": "success",
"message": "Products imported successfully.",
"data": [
    {
        "id": 1,
        "name": Product A",
        "description": "Description A",
        "price": 29.99,
        "quantity": 100,
        "category": "Electronics"
        "id": 2,
        "name": Product B",
        "description": "Description B",
        "price": 19.99,
        "quantity": 50,
        "category": "Books"
    }
]
```

Failed Response (400 Bad Request):

```
{
    "status": "error",
    "message": "The uploaded file is empty."
}
```

Failed Response (500 Internal Server Error):

```
{
    "status": "error",
    "message": "Failed to import products."
}
```

Export Products

Exports product data to a CSV file. Requires JWT Bearer token with OWNER role.

Endpoint: POST /api/csv/export/products

Request Body (optional):

```
"D:\exports\products.csv"
```

Successful Response (200 OK):

```
{
    "status": "success",
    "message": "Products exported successfully.",
    "filePath": "D:\JAVA\inventory-control-system-exports\products-1637012345678.csv"
}
```

Failed Response (500 Internal Server Error):

```
{
    "status": "error",
    "message": "Failed to export products."
}
```

Import Orders

Imports order data from a CSV file. Requires JWT Bearer token with OWNER role.

Endpoint: POST /api/csv/import/orders

Request:

- Content-Type: multipart/form-data
- Parameter: file (CSV file)

CSV Format:

```
OrderID,ProductId,SupplierId,Quantity,TotalPrice,CreatedAt,Status

1,1,1,10,2499.99,2024-11-07T10:30:00,PENDING

2,2,2,5,1699.98,2024-11-08T14:15:00,COMPLETED
```

Failed Response (400 Bad Request):

```
{
    "status": "error",
    "message": "The uploaded file is empty."
}
```

Failed Response (500 Internal Server Error):

```
{
    "status": "error",
    "message": "Failed to import orders."
}
```

Export Orders

Exports order data to a CSV file. Requires JWT Bearer token with OWNER role.

Endpoint: POST /api/csv/export/orders

Request Body (optional):

```
"D:\exports\orders.csv"
```

Successful Response (200 OK):

```
{
    "status": "success",
    "message": "Orders exported successfully.",
    "filePath": "D:\JAVA\inventory-control-system-exports\orders-1637012345678.csv"
}
```

Failed Response (500 Internal Server Error):

```
{
    "status": "error",
    "message": "Failed to export orders."
}
```

Products

Create Product

Create a new product in the inventory. Requires JWT Bearer token with OWNER role.

Endpoint: POST /api/products/create

Request Body:

```
{
    "name": "Product Name",
    "description": "Product Description",
    "price": 99.99,
    "quantity": 100,
    "category": "Electronics",
    "supplierId": 1
}
```

Success Response (201 Created):

```
"status": 201,
   "message": "Product created successfully",
   "product": {
        "id": 1,
        "name": "Product Name",
        "description": "Product Description",
        "price": 99.99,
        "quantity": 100,
        "category": "Electronics",
        "supplierId": 1
}
```

Error Response (400 Bad Request):

```
{
    "status": 400,
    "errors": [
        "name: must not be blank",
        "price: must be greater than 0"
]
}
```

Update Product

Update an existing product's details. Requires JWT Bearer token with OWNER role.

Endpoint: PUT /api/products/update/{id}

Request Body:

```
{
    "name": "Updated Product Name",
    "description": "Updated Description",
    "price": 149.99,
    "quantity": 150,
    "category": "Electronics",
    "supplierId": 1
}
```

Success Response (200 OK):

```
"status": 200,
   "message": "Product updated successfully",
   "product": {
        "id": 1,
        "name": "Updated Product Name",
        "description": "Updated Description",
        "price": 149.99,
        "quantity": 150,
        "category": "Electronics",
        "supplierId": 1
}
```

Error Response (404 Not Found):

```
{
    "status": 404,
    "message": "Product not found with ID: 1"
}
```

Get Product by ID

Retrieve product details by ID. Requires JWT Bearer token with OWNER role.

Endpoint: GET /api/products/{id}

Success Response (200 OK):

```
{
    "status": 200,
    "product": {
        "id": 1,
        "name": "Product Name",
        "description": "Product Description",
        "price": 99.99,
        "quantity": 100,
        "category": "Electronics",
        "supplierId": 1
    }
}
```

Error Response (404 Not Found):

```
{
    "status": 404,
    "message": "Product not found with ID: 1"
}
```

Get All Products

Retrieve all products in the inventory. Requires JWT Bearer token with OWNER role.

Endpoint: GET /api/products/all

Success Response (200 OK):

Delete Product

Delete a product from the inventory. Requires JWT Bearer token with OWNER role.

Endpoint: DELETE /api/products/delete/{id}

Success Response (200 OK):

```
{
    "status": 200,
    "message": "Product deleted successfully with ID: 1"
}
```

Error Response (404 Not Found):

```
{
    "status": 404,
    "message": "Product not found with ID: 1"
}
```

Orders

Create Order

Create a new order. Requires JWT Bearer token with OWNER role.

Endpoint: POST /api/orders/create

Request Body:

Success Response (201 Created):

```
"status": 201,
"message": "Order created successfully",
"order": {
    "id": 1,
    "customerId": 1,
    "products": [
            "productId": 1,
            "quantity": 2
        },
            "productId": 2,
            "quantity": 1
    "totalAmount": 349.97,
    "orderDate": "2024-11-22T10:30:00",
    "shippingAddress": "123 Main St, City, Country",
    "orderStatus": "PENDING"
}
```

Error Response (400 Bad Request):

```
{
    "status": 400,
    "errors": [
        "customerId: must not be null",
        "products: must not be empty"
    ]
}
```

Update Order

Update an existing order's details. Requires JWT Bearer token with OWNER role.

Endpoint: PUT /api/orders/update/{id}

Request Body:

```
{
    "productId": 6,
    "supplierId": 1,
    "quantity": 40,
    "status":"COMPLETED"
}
```

```
"message": "Order updated successfully",
"status": 200,
"order": {
     "id": 2,
     "product": {
         "id": 6,
"name": "Product 2",
"sku": "SKU123472",
         "price": 100.5,
         "quantity": 50,
         "minStockLevel": 10,
         "category": "ELECTRONICS",
"status": "ACTIVE",
         "supplier": {
              "id": 2,
"name": "Supplier Name 2",
              "email": "supplier2@yopmail.com",
              "phoneNumber": "1234567892",
              "address": "123 Street, City",
              "companyName": "Supplier2 Company"
         },
"createdAt": "2024-11-21T20:58:06.667868"
    },
"quantity": 40,
"alphice": 4
     "totalPrice": 4020,
     "createdAt": "2024-11-21T20:55:21.582291",
     "status": "COMPLETED"
}
```

Error Response (404 Not Found):

```
{
    "status": 404,
    "message": "Order not found with ID: 1"
}
```

Get Order by ID

Retrieve order details by ID. Requires JWT Bearer token with OWNER role.

Endpoint: GET /api/orders/{id}

```
"status": 200,
    "order": {
        "id": 1,
         "product": {
             "id": 1,
             "name": "Product 1",
             "sku": "SKU00001",
             "price": 100.5,
             "quantity": 50,
             "minStockLevel": 20,
             "category": "BOOKS",
             "status": "ACTIVE",
             "supplier": {
                 "id": 1,
"name": "Supplier Name 1",
                  "email": "supplier1@yopmail.com",
                  "phoneNumber": "1234567891",
                  "address": "123 Street, City"
                  "companyName": "Supplier1 Company"
             },
"createdAt": "2024-11-21T20:27:20.970307"
         "quantity": 500,
         "totalPrice": 50250,
"createdAt": "2024-11-21T20:53:34.241111",
         "status": "PENDING"
    }
}
```

Error Response (404 Not Found):

```
{
    "status": 404,
    "message": "Order not found with ID: 1"
}
```

Get All Orders

Retrieve all orders. Requires JWT Bearer token with OWNER role.

Endpoint: GET /api/orders/all

```
"orders": [
    {
        "id": 1,
         "product": {
             "id": 1,
"name": "Product 1",
             "sku": "SKU00001",
             "price": 100.5,
             "quantity": 50,
             "minStockLevel": 20,
             "category": "BOOKS",
"status": "ACTIVE",
             "supplier": {
                 "id": 1,
                 "name": "Supplier Name 1",
                 "email": "supplier1@yopmail.com",
                 "phoneNumber": "1234567891",
                 "address": "123 Street, City",
                 "companyName": "Supplier1 Company"
             },
"createdAt": "2024-11-21T20:27:20.970307"
         "quantity": 500,
        "totalPrice": 50250,
         "createdAt": "2024-11-21T20:53:34.241111",
         "status": "PENDING"
    },
```

```
"id": 2,
             "product": {
                 "id": 6,
                 "name": "Product 2",
                 "sku": "SKU123472",
                 "price": 100.5,
                 "quantity": 50,
                 "minStockLevel": 10,
                 "category": "ELECTRONICS",
"status": "ACTIVE",
                 "supplier": {
                     "id": 2,
                     "name": "Supplier Name 2",
                      "email": "supplier2@yopmail.com",
                      "phoneNumber": "1234567892",
                      "address": "123 Street, City",
                     "companyName": "Supplier2 Company"
                 },
"createdAt": "2024-11-21T20:58:06.667868"
             "quantity": 40,
             "totalPrice": 4020,
             "createdAt": "2024-11-21T20:55:21.582291",
             "status": "COMPLETED"
        }
    "status": 200
}
```

Delete Order

Delete an order. Requires JWT Bearer token with OWNER role.

Endpoint: DELETE /api/orders/delete/{id}

Success Response (200 OK):

```
{
    "status": 200,
    "message": "Order deleted successfully"
}
```

Error Response (404 Not Found):

```
{
    "status": 404,
    "message": "Order not found with ID: 1"
}
```