# Manilogix Supplier-Service Documentation

## 1. Module Overview

The **Supplier-Service** module manages supplier data, onboarding, contracts, ratings, and activities. It uses **MySQL** for structured supplier records and supports CRUD operations, search, and integration with other services (Inventory, Order).

## 2. Project Structure

supplier-service/  
├── src/main/java/com/manilogix/supplier/  
│ ├── controller/  
│ │ └── SupplierController.java  
│ ├── service/  
│ │ └── SupplierService.java  
│ ├── dto/  
│ │ ├── SupplierRequest.java  
│ │ └── SupplierResponse.java  
│ ├── model/  
│ │ └── Supplier.java  
│ ├── repository/  
│ │ └── SupplierRepository.java  
│ └── SupplierServiceApplication.java  
└── resources/  
 └── application.yml

## 3. Controller and Responsibilities

### SupplierController

**Path:** /api/suppliers

#### Responsibilities:

* Register new supplier (POST /add)
* Get all suppliers (GET /all)
* Get supplier by ID (GET /{id})
* Update supplier (PUT /update/{id})
* Delete supplier (DELETE /delete/{id})

## 4. DTOs (Data Transfer Objects)

### SupplierRequest.java

* String name
* String email
* String contactNumber
* String address
* String company

### SupplierResponse.java

* Long id
* String name
* String email
* String contactNumber
* String address
* String company
* LocalDateTime createdAt

## 5. Model

### Supplier.java

* @Id Long id
* String name
* String email
* String contactNumber
* String address
* String company
* LocalDateTime createdAt

## 6. Service Layer

### SupplierService

* Register a new supplier
* Retrieve supplier list and by ID
* Update supplier information
* Delete supplier from system

## 7. Repository

### SupplierRepository

* Extends JpaRepository<Supplier, Long>
* Provides built-in JPA CRUD methods

## 8. Application Properties (YAML)

spring:  
 datasource:  
 url: jdbc:mysql://localhost:3306/supplierdb  
 username: root  
 password: yourpassword  
 jpa:  
 hibernate:  
 ddl-auto: update  
 show-sql: true  
 application:  
 name: supplier-service

## 9. Endpoints Summary

| Method | Endpoint | Description |
| --- | --- | --- |
| POST | /api/suppliers/add | Register new supplier |
| GET | /api/suppliers/all | Retrieve all suppliers |
| GET | /api/suppliers/{id} | Get supplier by ID |
| PUT | /api/suppliers/update/{id} | Update supplier |
| DELETE | /api/suppliers/delete/{id} | Delete supplier |

## 10. Dependencies

* Spring Web
* Spring Data JPA
* MySQL Driver
* Lombok
* Validation API
* Spring Boot DevTools

## 11. Notes

* Uses JPA and MySQL for relational supplier data
* Easily integrable with order and inventory services
* Can be extended to include contract documents, ratings, or history