# Manilogix Shared-Libraries Documentation

## 1. Module Overview

The **Shared-Libraries** module is a utility package designed to provide reusable components across all other microservices within the Manilogix platform. It contains common DTOs, enums, exception classes, utility methods, and centralized response formats to promote code reuse and consistency.

This module is packaged as a **Spring Boot Starter** (without @SpringBootApplication) and is imported into other modules via Maven dependency.

## 2. Project Structure

shared-libraries/  
├── src/main/java/com/manilogix/shared/  
│ ├── dto/  
│ │ ├── CommonResponse.java  
│ │ └── ApiError.java  
│ ├── enums/  
│ │ ├── OrderStatus.java  
│ │ └── NotificationType.java  
│ ├── exception/  
│ │ ├── GlobalExceptionHandler.java  
│ │ ├── ResourceNotFoundException.java  
│ │ └── ValidationException.java  
│ ├── utils/  
│ │ └── DateUtils.java  
│ └── config/  
│ └── GlobalCorsConfig.java  
└── resources/  
 └── application.yml (optional)

## 3. DTOs (Common Reusable Objects)

### CommonResponse.java

* Generic success/failure response format
* Fields: success, message, data

### ApiError.java

* Structure for error responses
* Fields: statusCode, timestamp, message, details

## 4. Enums

### OrderStatus.java

* Enum values: PENDING, CONFIRMED, DISPATCHED, DELIVERED, CANCELLED

### NotificationType.java

* Enum values: INFO, ALERT, ERROR

## 5. Exception Classes

### ResourceNotFoundException.java

* Thrown when entity not found by ID or criteria

### ValidationException.java

* Custom exception for DTO-level validation failures

### GlobalExceptionHandler.java

* Handles all uncaught exceptions
* Converts to ApiError format

## 6. Utility Classes

### DateUtils.java

* Utility methods for date formatting, parsing, and comparisons

## 7. Configuration

### GlobalCorsConfig.java

* Adds CORS mappings to allow cross-origin requests from frontend
* Applied globally across all services importing this module

## 8. How to Use

### Maven Dependency (in other services):

<dependency>  
 <groupId>com.manilogix</groupId>  
 <artifactId>shared-libraries</artifactId>  
 <version>1.0.0</version>  
</dependency>

## 9. Notes

* Promotes standardization across microservices
* Eases maintenance by isolating shared concerns
* Avoids duplication of common logic and responses
* Can be expanded with logging, auditing, and more enums as system evolves