

# Trade Master Application I

## Problem Statement:

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Logging and Metrics  
Trade Master Application

Problem

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**Problem statement**

Suppose you are building a **Trade management system** where stock trades are executed. It is critical to ensure that logging is effectively implemented to monitor and troubleshoot. Implement the different logging levels (info, error, and warn).

You have been provided with the following classes in the template:

- Trade - Entity
- TradeDto - Dto
- TradeMasterController - Controller
- TradeService - Service
- TradeRepo - Repository

You need to implement changes only in the **TradeService** class

▼ **TradeMaster Controller APIs:-**

- /tradeMasterApp/execute-trade (@RequestBody Trade trade) - saves a trade entity to the database.
- /tradeMasterApp/tradeHistory/{username} (@PathVariable String username) - fetches a list of all trades with a given username.

Tasks:-

1. Create a logger object in the TradeService class.

2. Perform the following in **executeTrade()** method:

- Write the logic for printing an "ERROR" level log with an appropriate message whenever the quantity of stock exceeds the value of 1500.
- Implement a "WARN" level log just before saving a trade with an appropriate message.
- Implement "INFO" level logs after saving a trade entity with an appropriate message.

3. Perform the following in **getTradeHistory(String username)** method:

- Implement an "ERROR" log when no trades are found by the username.
- Implement an "INFO" level log with an appropriate message when the trades list is not empty.

4. Implement the following in the application.yml:

3. Perform the following in **getTradeHistory(String username)** method:

- Implement an "ERROR" log when no trades are found by the username.
- Implement an "INFO" level log with an appropriate message when the trades list is not empty.

4. Implement the following in the application.yml:

- Set the logging level for the application to "DEBUG".
- Save the logging file.

5. Use the APIs in the **TradeMasterController** class and check the console to ensure the working of your logger code.

► **Special Instructions for submitting the solution:**

► **Note:-**