

# Code Challenge

Log API

## Problem description

To centralize logging, you are tasked to create a REST API that allows legacy systems to log to the centralized logging system. All log entries must have the following metadata:

- Application ID (source of log entry)
- Trace ID
- Severity
- Timestamp
- Message

Optional metadata:

- Component name
- Request ID

The REST API must be able to support multiple log destinations e.g., Kafka topic, Flat file, MQ topic.

Please design and Implement a REST API that that can receive log messages including needed data models, API documentation and needed testing.

**Expected time used: Maximum 2 hrs. Complete what you can in that time and explain your process and assumptions in a read.me file in the repo.**

***Bonus points are given for demonstrating TDD principles***

## Bonus task I

Add support for bulk logging

Requirements

- Any added logic must have test coverage

## Bonus task II

Add load test to API and profile application

Requirements

- Load test with 10, 100 & 1000 concurrent “users”, feel free to create additional load scenarios
- Explain observations from load tests

## Technical requirements

- Solve challenge using Java 11 with Spring Boot 3 or newer.
- Use Git for source control and hand-in using a GitHub repo