

Code Challenge

Could you please, as part of Webtrekk's interview process, complete the following coding challenge? Please deliver it by sending a link to your GitHub Account containing the code.

Task

Design and write a MicroService responsible of Asynchronous sending of Emails. It will be used by various other components to send mail to end customers.

Requirements

- REST API with synchronous acknowledgment with only one method for sending new Mail
- Mail with attachment should be possible. (Attachment Content will be provided in the request by a URI pointing to the actual document binaries)
- Queuing until successful response from SMTP Server. Max Retry configurable.
- No Authentication required.

Deliverables

- API Definition using Swagger
- Implementation using Maven/Gradle, Spring Boot, and any other frameworks you may think useful.

Optional

- We would like to send a large number of mails at certain times. To ensure that the service can accept and process every request we need a queue in front of the service:
- Implement a consumer who listen and react to a topic in front of the service. To solve this problem please use Kafka and the Kafka Streams / Consumer-API. The Usage of Avro is a plus but not necessary.

Guidance

- As a guide, elegant and simple wins over feature rich every time, though extra gold stars are given to people who get excited and do more because they are having fun.
- We value usage of framework or library over reinventing the wheel

Thank you and good luck!