OSTTRA

Test assignment

Build a service for sending and retrieving messages. The service should support the following functions.

1. Submit a message to a defined recipient, identified with some identifier, e.g. email address, phone number, user name or similar.
2. Fetch unread messages.
3. Delete a single message.
4. Delete multiple messages.
5. Fetch messages (including previously fetched) ordered by time, according to start and/or stop index.

All interactions with the service must be possible through a REST API, no GUI or other interface is necessary.

Assumptions/delimitations

The service only needs to support plain text messages.

The implementation does not need to handle authorization or authentication. The implementation does not need to be "ready for production", however it should reflect your regular level of work.

It must be possible to use the service with curl or a similar tool, and any client you create for your own convenience will not be the main focus of the evaluation.

It is ok to make assumptions as long as they are clearly communicated and motivated.

Implementation

Please coordinate with your contact person at OSTTRA to agree on a programming language and target environment (usually Linux/MacOS for Python/Java/Kotlin or Windows for .NET) before starting the assignment, to ensure a smooth evaluation of the solution. We can usually be flexible with the choice of language and environment when needed.

Usage of third party open source components is encouraged.

Usage of common techniques for building/running the service and managing dependencies is encouraged. For example Gradle in Java/Kotlin or pip/uv in Python.

The implementation should consider, but not necessarily include:

- Redundancy
- Scalability

Delivery

The service should be made available to OSTTRA with clear instructions on how to build/compile/run and use the service. Delivery can be done with a GitHub/GitLab/other repository link (preferred) or a zipped file sent over email or shared through e.g. Google Drive.