Technical evaluation for

Backend Developer

Instructions

Considering a database created in order to track users's behaviours on our website. Each action from a user would be considered as an event (e.g. user consent for our newsletter, click in buy product, click in ask a demo product, ...). We would like to have a small database to register these events.

For interacting with this database, we need an API including the following features:

- Register a new user (CRUD operations)
- Get the list of events generated by a specific user (with the possibility to sort the list and to get events from and to a specific date)

In specific hours we have thousands of events, for this reason you should consider publishing and consuming the events from a queue, e.g., RabbitMQ.

• Your API must publish a message to the queue, and a worker (second java program) must consume and insert this event in the database.

A registered user will contain the following information: ID / NICKNAME / REGISTRATION DATE

An event will contain: ID / EVENT TYPE / EVENT DATETIME

Respectfully to the best practices you know about API development, you will create a RESTful API using Java Spring Boot with the proper endpoints for completing the expectations. A java program that will consume messages from the queue (always running up). The database technology choice is up to you.

- We are not expecting a complex application. Therefore use the KISS principle.
- Would be good if you manage to integrate your project with Docker, because we can test it without problems.
- It is not necessary to do the authentication.

Deliverables:

The proposed solution has to be delivered in 2 weeks. The expected elements are the following: API source code API documentation. It should be accessible on /docs Java worker