

# Code Test to be done with Spring boot

## Objective

Build a **Translation Management Service** to evaluate your ability to write clean, scalable, and secure code, with a focus on performance.

- i** This is a test task and does not need to be a production-grade application. The expected completion time is 2 hours, but feel free to complete as much as possible if you have additional time available.

## Task

Develop an API-driven service with the following features:

- Store translations for multiple locales (e.g., `en`, `fr`, `es`) with the ability to add new languages in the future.
- Tag translations for context (e.g., `mobile`, `desktop`, `web`).
- Expose endpoints to create, update, view, and search translations by tags, keys, or content.
- Provide a JSON export endpoint to supply translations for frontend applications like Vue.js.
- Json endpoint should always return updated translations whenever requested.

## Performance Requirements

- Response time for all endpoints should be in **milliseconds**. i.e  $< 200\text{ms}$
- Provide a **command** or **factory** to populate the database with **100k+ records** for testing scalability.
- The JSON export endpoint should handle large datasets efficiently and return responses in **less than 500ms**.

## Technical Requirements

- Follow **PSR-12 standards** and use a scalable database schema.

- Follow SOLID design principles.
- Optimized sql queries.
- Implement **token-based authentication** to secure the API.
- No external libraries for CRUD or translation services should be used.

## Plus points

- Docker setup.
- CDN support.
- Test coverage > 95%
- OpenAPI or swagger documentation for API.
- Write **unit and feature tests** for all critical functionalities, including performance testing.

## Deliverables:

- Github repo with code.
  - Include a `README.md` with setup instructions and a brief explanation of design choices.
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