



## Senior Java Technical Assessment

As a software engineer, I would like to implement a backend API to register a user. It can also edit/read/(soft) delete single or multiple user(s).

Key requirements:

1. The application should be written in spring-boot and in one single project (you can have multiple modules within one project)
2. The application will be packaged via docker and can be built, packaged and run via docker in one single shell script. Please provide details of how to run your application in a readme file
3. Upon successful registration, send out a welcome email (you could use fake smtp server)
4. Proper validation, error handling and testing
5. Use latest stable version of Spring Boot 3.2.4
6. Use latest stable version of Java 21
7. Use PostgreSQL version 12.x.x

Additional Requirements:

1. REST API documentation
2. Use of latest common design patterns, e.g microservices
3. Performance testing (Optional)
4. UI to register, edit, deactivate, show existing registered users and view all emails that were sent (Optional)

### Instructions:

Please upload the completed technical assessment on Github in a private github repo and add as collaborators the following github user names: @pdimiro, @HliasVs, @foxdb

The team will review the technical assessment and inform if you shall proceed to the first round of interviews.

Good luck!