

Java Middleware Developer Assessment

Objective

Develop a web application using Spring Boot, which exposes an Items API (web service).

The web service must provide three endpoints to :

- Store an item if the total count of items is less than 5.
- Read the list of all existing items.
- Read a stored item, knowing its identifier.

Items are stored in a relational database with the current structure and each item is made of :

- A unique identifier.
- A name (mandatory).
- A description (optional)

For each of the above endpoints the response to a call must contain a message (of your choice). All response content must be in JSON format.

The Store endpoint must accept only JSON as body content.

Error handling

Return the following status (along with the message) in the given situations :

Situation	HTTP code
Things went OK	200
Missing mandatory data from client	400
Any other issue	500 or the suitable

Delivery

Deliverables

- The Maven project, with all the sources, potential configurations and resources necessary to build the project on a different computer
- A jar or war file deployable on Tomcat 8
- Any useful documentation produced by you.

Recipients

Please send all deliverables to (both) :

- Jonas.Botta@fluence.ch
- christian.benesch@fluence.ch

Technology compliance

- JDK 8
- Spring boot 1.3.8 or later
- Maven
- Use any relational database.

Other points

Security and transaction management are out of the scope, which means there is no need for you to handle them.

You remain the owner of everything you produce in this assessment.

If you have any questions, send them to Badreddine.Benaidja@fluence.ch.