

Challenge: Create a Java microservice to manage items from a shop. This microservice will expose an API to CRUD items. Item model is open, use your creativity.

The expected outcome is:

1. one endpoint to create one item;
2. one endpoint to create multiple items;
3. one endpoint to delete an item;
4. one endpoint to update an item;
5. one endpoint to fetch an item by id, name and some other field of your choice;
6. one endpoint to fetch all items(tip: can be a LOT of items);

What your solution should contain:

1. source code in java 8 or higher (we recommend the usage of springboot with maven);
2. the items should be saved on a database of your choice(can be an in-memory database);
3. an OpenAPI/Swagger must be provided;
4. tests. Keep in mind that we are not looking for high coverage but different types of tests;
5. a generic http trace should be sent to a queue/topic to be consumed by a magic bean. You can use any messaging system (kafka, rabbitmq, jms);
6. no need for a fancy solutions, just keep it simple and clean;
7. endpoints secured (any security is accepted);
8. readme.md file with running instructions;

Nice to have:

1. use cache layer
2. your service runs in a container

Use git bundle to create a file and send it to us by e-mail.