# QA Automation Test

Build an end-to-end system from request to response.

The system contains 2 microservices. One for processing the request and the second one to log it.

**The test:**

1. Create MS called “service-shuffle”
2. In “service-shuffle” create a POST API that gets a number from 1 to 1000.
3. Create a function that gets this number and returns a shuffled array from 1 to this number.

**without duplications of numbers**.  
*Example:* for 5 – [4, 2, 1, 5, 3]  
*Example:* for 10 – [8, 5, 1, 9, 2, 6, 7, 3, 4, 10]  
**\* Bonus:** make sure this function is performant. Try to achieve O(N).

1. Create a second MS called “service-log”.
2. The “service-log” should get a request object and log it (for the test – just for the console).
3. “service-shuffle” should send the request to “service-log”.  
   Make sure the URL for “service-log” should come from a configuration.  
   **\* Bonus:** Make the request Async.
4. “service-shuffle” should return the result to the client.

**Use:**

* Spring Boot
* Java 11 min
* Maven