Microservices Survey

* Required

Background

Questions about professional profile

1. **How long have you been working with software development?** *
   Mark only one oval.
   - ◯ I have never worked with software development
   - ◯ Less than one year
   - ◯ One to five years
   - ◯ Five to ten years
   - ◯ More than ten years

2. **How long have you been working with microservices?** *
   Mark only one oval.
   - ◯ I have never worked with microservices
   - ◯ Less than one year
   - ◯ One to five years
   - ◯ More than five years

3. **Which role do you usually play when developing microservice-based applications?** *
   Mark only one oval.
   - ◯ User-experience
   - ◯ Back-end development
   - ◯ Database administrator
   - ◯ DevOps specialist
   - ◯ Other: _____

4. **What is the size in LOC (Lines of Code) of the largest monolithic application you worked with?** *
   Mark only one oval.
   - ◯ Less than 10 KLOC
   - ◯ 10 KLOC to 50 KLOC
   - ◯ 50 KLOC to 100 KLOC
   - ◯ More than 100 KLOC

5. **What is the size in LOC (Lines of Code) of the largest microservice-based application you worked with?** *
Mark only one oval.

- ◯ Less than 10 KLOC
- ◯ 10 KLOC to 50 KLOC
- ◯ 50 KLOC to 100 KLOC
- ◯ More than 100 KLOC

6. **What is the number of microservices in the largest application you worked with?** *
Mark only one oval.

- ◯ Less than 10
- ◯ 10 to 50
- ◯ 51 to 100
- ◯ 101 to 500
- ◯ More than 500

About Microservices

Questions about microservices definitions, advantages and drawbacks

7. **Please fill the option that represents your agreement to the following sentence: "When starting a new project, you should start with a monolith and then move to a microservice architecture"** *
Mark only one oval.

	1	2	3	4	
Completely disagree	◯	◯	◯	◯	Completely agree

8. **Microservices advantages** *
Please fill the options according to the importance you give to the advantage. Number 1 means very important and number 5 means least important
Mark only one oval per row.

	1	2	3	4	5
Independent deploy	◯	◯	◯	◯	◯
Ease to scale the application	◯	◯	◯	◯	◯
Ease of maintain	◯	◯	◯	◯	◯
No commitment to a single technology stack	◯	◯	◯	◯	◯

9. **Microservices problems** *
Please fill the options according to the importance you give to the problem. Number 1 means a very serious problem and number 5 means the least serious problem.
Mark only one oval per row.

	1	2	3	4	5
Complex Distributed Transactions	◯	◯	◯	◯	◯
Expensive Remote Calls	◯	◯	◯	◯	◯
Testing the Whole System	◯	◯	◯	◯	◯
Service Fault	◯	◯	◯	◯	◯

10. **Microservices size** *

Please fill the options according to the definitions of microservice size. Number 1 means the best definition and number 5 means the worst definition
Mark only one oval per row.

	1	2	3	4	5
Small enough that it serves a focused purpose and big enough that it minimizes interservice communication					
Size does not matter, it should be defined in terms of the single responsibility principle (do one thing really well)					
Something that could be rewritten in two weeks					
The size should be defined in terms of LOC (Lines of Code)					

Diversity of technology

The following questions refer to the diversity of technologies used in microservice-based applications. Please answer them if you have already developed applications using microservices.

11. **What is the main programming language that you usually use?**

12. **Which database do you usually use?**

13. **Which IDE (Integrated Development Environment) do you usually use?**

14. **Which communication protocol do you usually use?**