

# Infragenie Evaluation Form

Thank you for agreeing to participate in this experiment.

All data provided in the form is anonymous and will only be used for the scope of this experiment to help evaluate the tool developed and find ways to improve it.

The results will be published only in aggregate form and used to derive statistical data about the tool.

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\* Indicates required question

## Introduction to the visual editor

The visual editor you will use allows you to edit a diagram of the architecture of a software system using the PlantUML language. The diagram is automatically generated from a docker-compose file in the repository analyzed by the tool. You can also preview the resulting diagram on the plantUML diagram page.

You can move on to the next section now.

Good Luck!

## Tasks to complete

This section contains several tasks for you to complete as **correctly** and **quickly** as possible.

Please read the instructions **carefully**.

We will ask you to **record the specific time** of the **start of each task** and the **end time** of the **last task**.

After completing each task, **return to this form** to continue the experiment.

1. Please **insert your assigned ID**. \*

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## Experiment Setup

Please open the editor. To do so, enter the **repository name** and corresponding **branch** (see below) on the **form** of the tool's **homepage** and click on the "**Preview & Edit**" button.

Below, we present the relevant data to input:

**Repository:** mbarra29/infragenie-tests

**Branch:** strawberry

### 2. Start of Task 1 \*

Please record the time you reached this stage.

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*Example: 8:30 AM*

### 3. Task 1 \*

Open the properties of the **Prometheus Node**.

How many children does this node have?

*Mark only one oval.*

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

### 4. Start of Task 2 \*

Please record the time you reached this stage.

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*Example: 8:30 AM*

5. **Task 2 \***

Open the **Grafana Component** and **add a new property** to it.  
What is the total number of properties **after** your addition?

*Mark only one oval.*

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

6. **Start of Task 3 \***

Please record the time you reached this stage.

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*Example: 8:30 AM*

7. **Task 3 \***

**Delete** the "**Back-tier**" cloud/network.

How many **connections/links** were **deleted** because of that initial deletion?

*Mark only one oval.*

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

8. **Start of Task 4 \***

Please record the time you reached this stage.

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*Example: 8:30 AM*

#### Task 4

Create a new element of a type of your choosing and add a new link connecting that new element to the Datadog Node.

#### 9. Start of Task 5 \*

Please record the time you reached this stage.

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Example: 8:30 AM

#### Task 5

Open one element of your choosing and edit one of the editable properties (name, children, properties, ...) to your liking.

#### 10. Start of Task 6 \*

Please record the time you reached this stage.

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Example: 8:30 AM

#### Task 6

Please submit the changes made, ensuring the whole diagram is visible in the preview window. In the dropdown, select the branch previously mentioned, check the "Add to Readme" checkbox, and click the "Submit Changes" button.

After clicking the button, you will be prompted to insert your assigned ID.

#### 11. End of the experimental tasks \*

Please record when you reached the end of the tasks here.

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Example: 8:30 AM

#### Evaluation Questions

In this section, you will be asked to answer several questions that will allow us to evaluate the tool thoroughly.

Please answer carefully and truthfully.

## **Technology Acceptance Model (TAM)**

**Express your agreement** with the following items, considering **the job of creating and maintaining architectural documentation**.

## 12. Perceived Usefulness \*

Mark only one oval per row.

[illegible]

13. Please justify your answers regarding the **usefulness** of the tool. \*

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14. Perceived Ease-of-use \*

Mark only one oval per row.

[illegible]



15. Please justify your answers regarding the **ease-of-use** of the tool. \*

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16. **System Usability Score (SUS) \***

Express your agreement with the following items.

*Mark only one oval per row.*

	Strongly Disagree	Disagree	Neither	Agree	Strongly Agree
I think that I would like to use this system frequently.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I found the system unnecessarily complex.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I thought the system was easy to use.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I think that I would need the support of a technical person to be able to use this system.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I found the various functions in this system were well integrated.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I thought there was too much inconsistency in this system.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would imagine that most people would learn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

to use this  
system very  
quickly.

I found the  
system very  
cumbersome  
to use.

☐☐☐☐☐

I felt very  
confident  
using the  
system.

☐☐☐☐☐

I needed to  
learn a lot of  
things before  
I could get  
going with  
this system.

☐☐☐☐☐

17. Please justify your answers regarding the **usability** of the tool. \*

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### Additional Remarks

Express your opinion with these questions.

When you find it relevant, please add additional thoughts.

18. Do you consider having a feature “**undo/redo actions**” important for this type of tool? \*

*Mark only one oval.*

☐ Yes

☐ No

19. **Why?**

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20. Do you consider having a feature “**move elements**” important for this type of tool? \*

*Mark only one oval.*

☐ Yes

☐ No

21. **Why?**

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22. Do you consider having a feature “**use of keyboard keys**” important for this type of tool? \*

*Mark only one oval.*

☐ Yes

☐ No

23. **Why?**

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24. Do you believe the diagram achieved is **compliant with UML standards?** \*

*Mark only one oval.*

☐ Yes

☐ No

25. **Why?**

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26. Do you have any **comments** or **suggestions**, or would like to **suggest** any **new features**?

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