

# Thesis evaluation

The goal of my thesis was to create a tool, similar to mind-maps, to create and show a visualization of linked data. The difference with existing mind-map tools is that the structure of the map (called template) can be pre-defined.

Therefore, the tool has two modes.

(1) Map creator mode: A map creator can create new templates. His task is to create the necessary nodes and links, containing a description about the expected content for the particular nodes.

(2) End-user mode: End-users can create a map by starting from a template and providing content. They also can extend the map with new nodes in a limited way.

An example of a template can be found on <http://thijs-evaluation.surge.sh/>. This template is intended to be used for collecting the requirements for an e-commerce website.

Note that there are two different types of nodes: regular nodes (as in a mind-map) and choice nodes. The choice nodes contain pre-defined options, from which the end-user can select one or more options. For example, there could be a "gender" node with two options: "male" and "female". In this case, it can be specified that the end-user should only select one option.

Next, nodes can be optional, which means that an end-user may decide not to use them. For instance, an e-commerce website may contain a user profile, but for simple website this may not be needed. Therefore, this node is optional (indicated by a dotted link), meaning that the end-user can deselect the node.

Via this experiment, I want to evaluate the end-user part of my thesis. I will give you some tasks to perform and after each task you have to indicate how intuitive it was to perform the task, i.e. how easy it was to find the relevant operations in the application and execute them.

At the end, a general Usability Questionnaire is added to test the overall usability of my tool and you can give your opinion about the tool and its functionality.

I assume that you will need 10-15 minutes to finish this questionnaire.

**\*Required**

## Before we start

Before we start with the actual evaluation, we want to know a bit more about who you are. We only need this information to compare the results of people with the same characteristics. All information is used anonymously.

### 1. What is your age? \*

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### 2. Do you have a background in Computer Science and/or visualization techniques? \*

*Mark only one oval.*

☐ Yes

☐ No

## Tasks

To start, go to <http://thijs-evaluation.surge.sh/> in Google Chrome. By opening the link, you will see the "e-commerce" template. This template is intended to be used for collecting the requirements for an e-commerce website.

The first thing you have to do is to make sure that you are in the end-user mode. Because there is not yet a login functionality in our system, you can select the mode at the top left. Click on the "end-user" button if not yet selected.

### 3. Add content to the "Product" node by writing what information you want to provide about a product in its content-field (for example, the price, a description, ...). How intuitive was it to perform this action? \*

*Mark only one oval.*

☐ Very intuitive

☐ Intuitive

☐ Neutral

☐ Not intuitive

☐ Absolutely not intuitive

### 4. If you look at the bullet next to the title of the "Product" node, you will see it is not the same as this bullet in other nodes. One of them is half full, another is full and others are empty. Do you understand the meaning of the bullet next to the title of a node? If so, explain it here. \*

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5. The template doesn't allow to enter information about social media. Therefore, add a regular, non-optional node with the title "Social Media" and with description "Enter the social media you want to support" to the "e-commerce" node. How intuitive was it to perform this action? \*

*Mark only one oval.*

- ☐ Very intuitive
- ☐ Intuitive
- ☐ Neutral
- ☐ Not intuitive
- ☐ Absolutely not intuitive

6. Now indicate that you want to allow the users of your website to search for information by means of a regular search as well as by means of browsing. You can do this by means of the choice node with title "Searching". If you did it correctly, your selected options should be added as child nodes of the Searching-node. How intuitive was it to perform this action? \*

*Mark only one oval.*

- ☐ Very intuitive
- ☐ Intuitive
- ☐ Neutral
- ☐ Not intuitive
- ☐ Absolutely not intuitive

7. Find a way to delete one of these options, for instance the Search-option. How intuitive was it to perform this action? \*

*Mark only one oval.*

- ☐ Very intuitive
- ☐ Intuitive
- ☐ Neutral
- ☐ Not intuitive
- ☐ Absolutely not intuitive

8. Find a way to add a new option, called "Via Facebook" to the "Registration" choice node. How intuitive was it to perform this action? \*

*Mark only one oval.*

- ☐ Very intuitive
- ☐ Intuitive
- ☐ Neutral
- ☐ Not intuitive
- ☐ Absolutely not intuitive

**9. The node "Contact Us" has a lock symbol. Explain for which purpose you think you can use this. \***

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**10. Click on the zoom-to-fit button in the top-right corner and make a screenshot of the visualization. Please upload that screenshot here.**

## Usability Questionnaire

The first part of the questionnaire is now finished. Please answer the next 10 (small) questions about usability. These are the default questions of a SUS questionnaire.

**11. 1. I think I would like to use the system frequently. (Suppose that such a tool could be useful for your work, study or hobbies). \***

*Mark only one oval.*

- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

**12. 2. I found the system unnecessarily complex. \***

*Mark only one oval.*

- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

**13. 3. I thought the system was easy to use. \***

*Mark only one oval.*

- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

**14. 4. I think that I would need the support of a technical person to be able to use the system. \***

*Mark only one oval.*

- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

**15. 5. I found the various functions in the system were well integrated. \***

*Mark only one oval.*

- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

**16. 6. I thought there was too much inconsistency in this system. \***

*Mark only one oval.*

- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

**17. 7. I would imagine that most people would learn to use the system very quickly. \***

*Mark only one oval.*

- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

**18. 8. I found the system very cumbersome to use. \***

*Mark only one oval.*

- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

**19. 9. I felt very confident using the system. \***

*Mark only one oval.*

- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

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

*Mark only one oval.*

- ☐ Strongly Agree
- ☐ Agree
- ☐ Neutral
- ☐ Disagree
- ☐ Strongly Disagree

## **Almost finished**

Before we finish, I really like to know your opinion about the tool.

**21. Please tell me what you liked about the app, what was good?**

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**22. What could have been done better?**

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**23. Thanks a lot for finishing this questionnaire. You helped me a lot for the evaluation of my thesis. If you have any remarks, please write them down here.**

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