

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 map creator 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? *

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 map creator mode. Because there is not yet a login functionality in our system, you can select the mode at the top left. Click on the "map creator" button. You may take some time to inspect the template.

Now we want you to try to create another (similar but smaller) template for e-commerce. To do that, select "New map" in the middle menu at the top.

3. Provide a title to the root node and name it "e-commerce". How intuitive was it to perform this action? *

Mark only one oval.

☐ Very intuitive

☐ Intuitive

☐ Neutral

☐ Not intuitive

☐ Absolutely not intuitive

4. Add a regular (mandatory) node with title "Product" and give it the description "Add here the products for sale". How intuitive was it to perform this action? *

Mark only one oval.

☐ Very intuitive

☐ Intuitive

☐ Neutral

☐ Not intuitive

☐ Absolutely not intuitive

5. Add a mandatory choice node to the "e-commerce" node with title "Searching" and the description "Select here how you will allow users to search in the website". This choice node should have two options: "search" and "browse". The user should be allow to select both options. How intuitive was it to perform this action? *

Mark only one oval.

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

Your template should now look like this. If not, redo the previous steps to make sure you end up with this visualization.



6. Add an additional option (the title of it does not matter) to the choice node "searching". How intuitive was it to perform this action? *

Mark only one oval.

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

7. Now assume the "browse"-option is wrong and you want to delete it so that end-users cannot select it later on. Try to delete this option. How intuitive was it to perform this action? *

Mark only one oval.

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

8. Now assume the "Product" node is wrong and you want to delete it. Try to delete this node. How intuitive was it to perform this action? *

Mark only one oval.

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

9. Now add a regular optional node with title "Profile". How intuitive was it to perform this action? *

Mark only one oval.

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

10. Make a screenshot of the template you created and upload it here.

Usability Questionnaire

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

22. What could have been done better?

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.
