

C4 MODEL

WEBSITE STRUCTURE

Sub Question

How I visualize the structure of the portfolio?

Why

To improve the structure of the portfolio, this method will illustrate the components and container of the portfolio with the relationships of components and users.

How

C4 model: I started by reading what is the c4 model and how it helps, then I looked at an article by the name "The C4 model for visualizing software architecture" also the "Understanding the C4 Model for Software Architecture Documentation" that was published in 26 October 2021 by Sheldon Cohen. I was able to find a website to create the diagram by drawing it, the website is called "visual paradigm", also found another website that draw it with codes, the "Structurer" website. Then I created the structure with both website by identifying the key elements of each level, the context and the relationship. At the end I compared the two diagrams and found out they are both valuable and have different things.

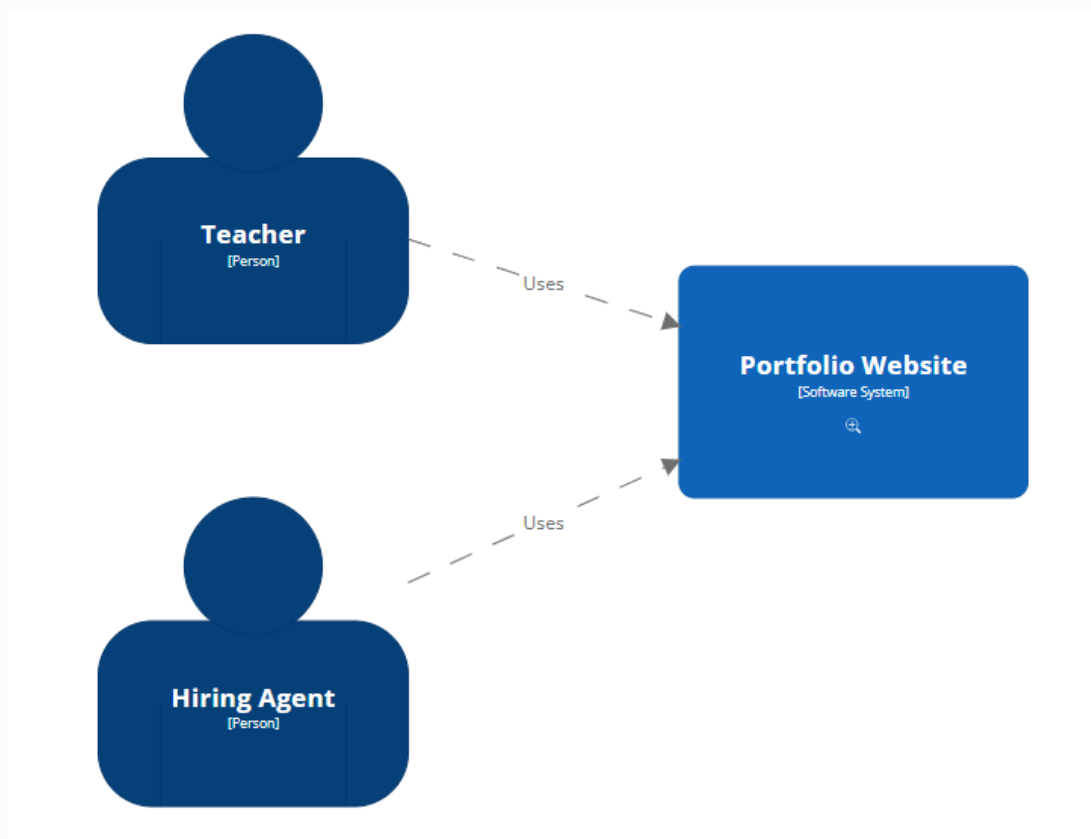
What?

The C4 model is about visualizing the architecture of a software system. The C4 model contains of the Context, Container, Component, and Code. There's a full document about the creation of the C4 model, however, I will only show information of level 1 otherwise the document will be too long.

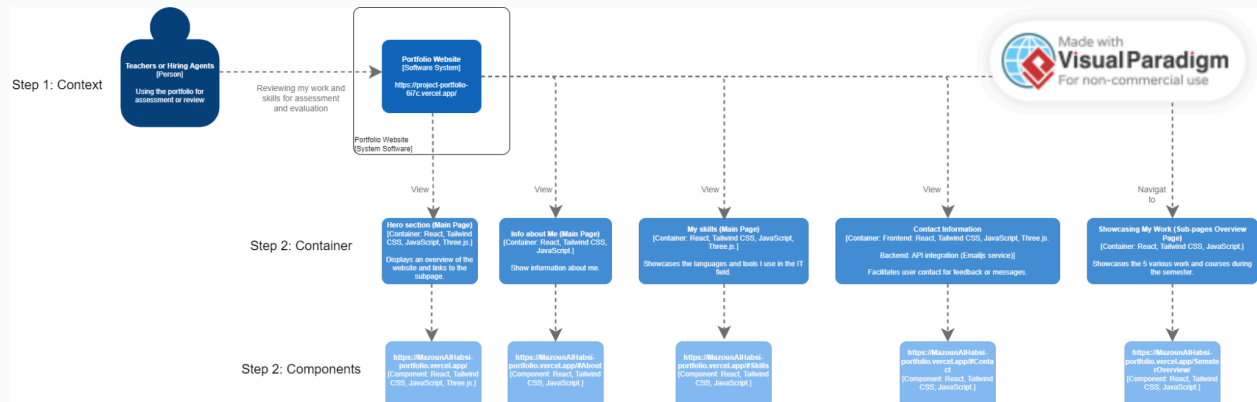
Context (Level 1)

To have a broader view and see the bigger image. Drawing and documenting a software system can be initiated with this stage.

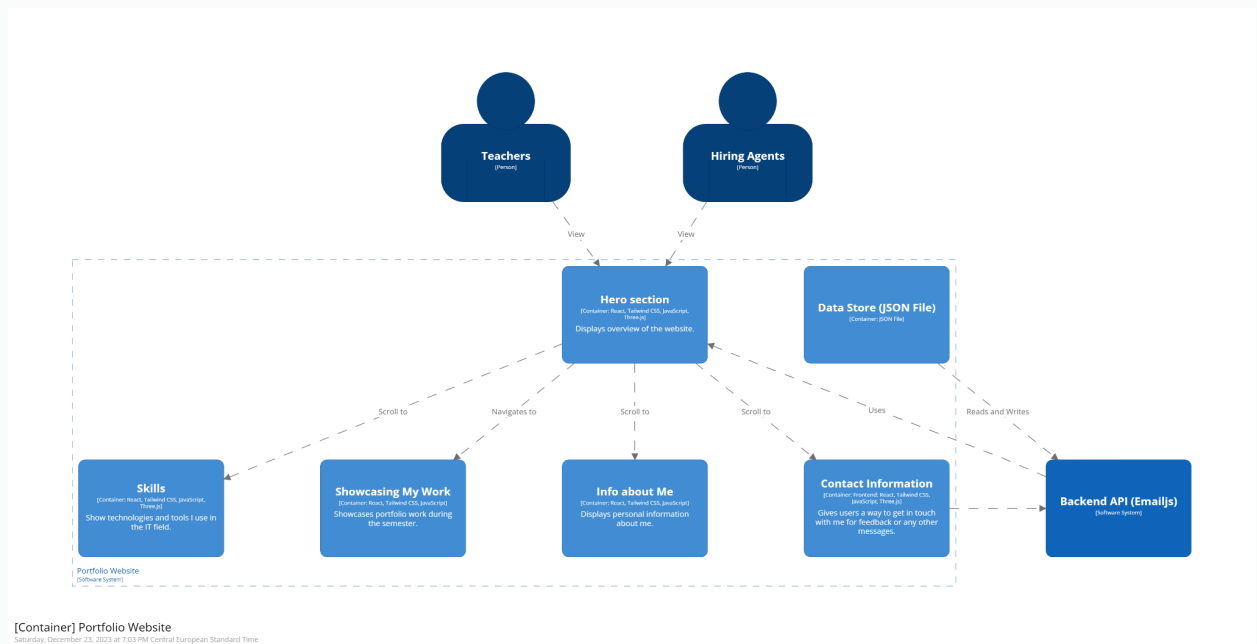
1. System: My portfolio website.
2. Actor: Users (Teachers and hiring agents)



The below image shows the C4 model that I draw on the website:



While the following image shows the structure with the coding website:



As can be seen, there is a somewhat great difference. The first one shows clearly what is what in each level, while the last one only shows the last level with some backend and deeper understanding of the relationships. The codes can be found on the full document, please review it for more information.

So What?

In conclusion, visualizing the structure of the website using the C4 model is very helpful, it illustrates the related people, the pages they view (Home page, reading guide, the work pages) and shows from where they navigate through it, what kind of component goes into different pages and what are the needed coding languages in each page as the C4 models illustrated, not all pages will be using the Three.js language but all of them will use the HTML, React and JavaScript. This helped me in not only structuring the components but to deeply visualize what I am missing from the previous design iterations.

Appendix

C4 model

<https://docs.google.com/document/d/1Z6maOCePRPCojgeKIWyqxT5bl5lsrlXDV-IGQT2RLx0/edit?usp=sharing>

Codes of C4 model

<https://docs.google.com/document/d/1ptO6kfyuxdPfH9n9nPrEbgY-EeDp1u5IAHRopkq2AOA/edit?usp=sharing>