QUICKSCAN - CANVAS

Data management platform

NAME: Data management platform
DATE: May 16, 2026 5:18 AM

DESCRIPTION OF TECHNOLOGY
There will be a solution that will help the researchers to kick-start the IT infrastructure of research projects. The technology that will be used within the solution will be further determined, when the research will be executed.

HUMAN VALUES

The solution that will be created will not influence users or their identity. it will only saves time for them, in which they now can further investigate other parts of their research. Therefore it will only influence their knowledge.

TRANSPARENCY

Due to the fact that my work will be more in recognizing patterns or categories within the research workflows and finding out similarities within their flows, my final solution will not be used by a non-technical person. My solution will be some kind of a blueprint that could be used by a software developer to build software parts of the research projects. Due to the fact that the user will be a software person, the final product will be in line with their knowledge. If i would doubt that they would understand my final work without an…

IMPACT ON SOCIETY

The necessity of creating a new platform for each research project leads to a significant loss of time. In addition, a considerable portion of the procedural elements involved in these projects exhibits a notable degree of similarity, leading to redundant efforts when building them from scratch. This practice not only consumes valuable time, but also diverts the focus of researchers and developers away from the core objectives of their respective research initiatives.

STAKEHOLDERS

- the researchers
- the software developers
- the product owner of this research project

SUSTAINABILITY

Due to the fact that not every researcher needs to develop new software for their project. a lot of time in creating the software platform will be saved. This will save time on the laptop for the software developer and therefore this will reduce the use of energy by the software developer.

HATEFUL AND CRIMINAL ACTORS

When creating a solution, I need to take into account that the stakeholders using the solution have different rights in for example using the stored data. Besides that, the personal data that is included in some research data need to be private and only available for the ones with the right to see this.

DATA

I am aware of the pitfalls of data. By making sure that we use as much example projects as possible within the research we will execute and by executing a lot of background research on the topics, we try to take this into account during the project.

FUTURE

The research will be carried out for a professorship within the Fontys. I think the final solution will be kind of specific for the projects that are carried out within this professorship. If this technology will be used, for example worldwide, then a lot of different aspects need to be taken into account. If everybody will use our software blueprint, then the research on different new and maybe in the future better tools will stop. I think it is good that some people find different solutions in the future, to make sure that also other options are constantly taken into…

PRIVACY

The technology itself does not gather personal data. This because the final "technology" will be some form of a solution. Which is not yet defined. Within the research projects that will be used as examples, there is personal data stored. As we will work towards a solution that will handle with this kind of data, we will take into account the risks that come with it.

INCLUSIVITY

Within the final solution there will not be a build in bias. The choices we will make during the execution of the project need to be explained detailed, due to the fact that we need to be objective during this master. With each step that will be carried out, we will think about possible ways to do it and then decide which way will be best. By using triangulation and different opinions, we hope to make sure that there will eventually be as less bias as possible.

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QUICKSCAN - CANVAS - HELPSIDE

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HUMAN VALUES

How is the identity of the (intended) users affected by the technology?

To help you answer this question think about sub questions like:

- If two friends use your product, how could it enhance or detract from their relationship?
- Does your product create new ways for people to interact?…

TRANSPARENCY

Is it explained to the users/stakeholders how the technology works and how the business model works?

- Is it easy for users to find out how the technology works?
- Can a user understand or find out why your technology behaves in a certain way?
- Are the goals explained?
- Is the idea of the technology explained?
- Is the technology company transparent about the way their…

IMPACT ON SOCIETY

What is exactly the problem? Is it really a problem? Are you sure?

Can you exactly define what the challenge is? What problem (what 'pain') does this technology want to solve? Can you make a clear definition of the problem? What 'pain' does this technology want to ease? Whose pain? Is it really a problem? For who? Will solving the problem make the world better? Are you sure? The problem definition will help you to determine…

STAKEHOLDERS

Who are the main users/targetgroups/stakeholders for this technology? Think about the intended context by…

When thinking about the stakeholders, the most obvious one are of course the intended users, so start there. Next, list the stakeholders that are directly affected. Listing the users and directly affected stakeholders also gives an impression of the intended context of the technology.
…

SUSTAINABILITY

In what way is the direct and indirect energy use of this technology taken into account?

One of the most prominent impacts on sustainability is energy efficiency. Consider what service you want this technology to provide and how this could be achieved with a minimal use of energy. Are improvements possible?

HATEFUL AND CRIMINAL ACTORS

In which way can the technology be used to break the law or avoid the consequences of breaking the law?

Can you imagine ways that the technology can or will be used to break the law? Think about invading someone's privacy. Spying. Hurting people. Harassment. Steal things. Fraud/ identity theft and so on. Or will people use the technology to avoid facing the consequences of breaking the law (using trackers to evade speed radars or using bitcoins to launder…

DATA

Are you familiar with the fundamental shortcomings and pitfalls of data and do you take this sufficiently into…

There are fundamental issues with data. For example:

- Data is always subjective;
- Data collections are never complete;
- Correlation and causation are tricky concepts;
- Data collections are often biased;…

FUTURE

What could possibly happen with this technology in the future?

Discuss this quickly and note your first thoughts here. Think about what happens when 100 million people use your product. How could communities, habits and norms change?

PRIVACY

Does the technology register personal data? If yes, what personal data?

If this technology registers personal data you have to be aware of privacy legislation and the concept of privacy. Think hard about this question. Remember: personal data can be interpreted in a broad way. Maybe this technology does not collect personal data, but can be used to assemble personal data. If the technology collects special personal data (like…

INCLUSIVITY

Does this technology have a built-in bias?

Do a brainstorm. Can you find a built-in bias in this technology? Maybe because of the way the data was collected, either by personal bias, historical bias, political bias or a lack of diversity in the people responsible for the design of the technology? How do you know this is not the case? Be critical. Be aware of your own biases.…

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