NAME: RAAK Product Tracking Dashboard

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DATE: July 1, 2025 6:38 PM

DESCRIPTION OF TECHNOLOGY
The RAAK Product Tracking Dashboard is a dashboard that collects data about the status of a factory and the product information and provides insights into this data. The goal with this product is to create a global product which can be deployed within several small and medium enterprises.

HUMAN VALUES

It is not affected, since we're only displaying and giving insights about product and factory information.

TRANSPARENCY

Yes, we will implement proper documentation both for Stakeholders and Developers which will help the users and stakeholders to use the product. Furthermore, we wil develop the product with scalability and easy deployment in mind. Since this product will be deployed in enterprises it is important that its users know how the product works.

IMPACT ON SOCIETY

The purpose of the RAAK product tracking dashboard would be to redevelop the existing prototype of the dashboard into a professional product. The end goal for this is to create a professional dashboard which displays product and factory information (which is gathered by different inputs) and make it so that it can be easily deployed into several different small and medium enterprises. This will help a lot of different companies with the collection of their data and will provide these companies with meaningful insights.

STAKEHOLDERS

- Pim Veroude
- Amy Latour
- Antoine Dunand
- Rufus Fraanje

SUSTAINABILITY

We implement the application within the cloud, which allows us to easily deploy the product within different small and medium enterprises. These services do consume power, however we host our servers on a supplier (Google) which has high standards in environmentally friendly datacenters.

HATEFUL AND CRIMINAL ACTORS

The product can not be used to invade someone's privacy or to avoid facing consequences of the law. This is because the application does not implement personal data. The only thing that under certain circumstances could happen is that product or tracking information can be altered which could lead to a delay or malfunctioning in the factory processes.

DATA

We are aware that data has shortcomings and pitfalls. Currently our data collection consists of gathering data from factory input sources. These input sources could of course not provide the proper data. Because of this, we need to implement methods in which users can always be in control over the data. The same goes with the idea of implementing an AI which provides insights into the data, we have to make sure that the supply of data is accurate and well balanced.

FUTURE

We're not expecting a lot of traffic for our product, since this product wiil be used internally for small and medium enterprises, however if a lot of these enterprises were to use this platform then this could lead to a big change in how data gets managed within factories.

PRIVACY

The only personal data that the product will be handling are credentials (Username, Email and Password). This is used for authenticating to the platform and is handled by a third-party dependency (Auth0).

INCLUSIVITY

Since we're not dealing with personal data, there isn't really a built-in bias. However, a different kind of bias could occur when implementing an AI which provides data insights, if we were to provide this AI with limited or non-balanced data, technical biases could formulate.

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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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