QUICKSCAN - CANVAS

Harvest Helper

NAME: Harvest Helper
DATE: September 5, 2024 12:47 PM

DESCRIPTION OF TECHNOLOGY
Harvest Helper is a web application that helps farmers manage their farms crop harvests, equipment, labour information and many
more things in and around the farm. The application aims to provide a central place for a farmer and other stockholders to get
information

HUMAN VALUES

This product can affect some administrative workers on a farm. Because this product takes over the role/workload of these workers, they could lose their jobs.

Next, farm managers could get a better overview of workers and their working performance, making certain workers look worse than others that wouldn't be seen if this type of data wasn't tracked.
…

TRANSPARENCY

Yes, clients and stakeholders can read through different types of documents to get a clear understanding of the entire application.

These documents are, but are not limited to:
Security document
Analysis document
Research document
Technical document

IMPACT ON SOCIETY

Currently, farms manage their data and information in outdated ways like pen and paper or plain Excel sheets. With this, it is hard to keep track of everything. Harvest Helper wants to help farms operate in the best possible way by keeping track of all farm-related data.

STAKEHOLDERS

- Farm manager
- Farm worker

SUSTAINABILITY

Because this technology will be hosted in the cloud and this takes a lot of resources, money and energy, it is bad for the environment. But because of the nature of the application, it helps farms analyse their crop harvest and compare data to previous years, and this could save a lot of water and energy by growing crops based on data.

This is better for the world.

HATEFUL AND CRIMINAL ACTORS

After thinking hard about it, I can't think of any way this software can be used to break the law in any way.

DATA

Yes, I understand that data can be incomplete With the crop data analysis I want to do. The way this can be solved is by having separate data analysis for manually entered data and automatically entered data (data from sensors)

FUTURE

Farms could use a more sustainable way to grow crops because data and analysis could help them use fewer resources.

PRIVACY

The following personal data is registered:
- Labour data:
  - Name
  - Surname
  - DoB
  - Email
  - Employment History
  - Contact

INCLUSIVITY

No, there is no built-in bias, as the application. All data is purely registered about crops and facts like working schedules.

The only possible data could be manually entered crop data. One example could be the question if the crops look healthy or not. This data could be based on an individual's point of view and could differ from someone else.

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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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