QUICKSCAN - CANVAS

Stress Wearable Platform

NAME: Stress Wearable Platform
DATE: September 2, 2024 9:20 PM

DESCRIPTION OF TECHNOLOGY

The goal of this project is to create a fully functioning prototype. which involves the full process from a user wearing a wearable to users being able to see live data on an application (mobile or web). For this to be realized a connection must be made from the wearable to the backend so that data can be collected from the wearable. Once the data from the wearable has been collected, the data needs t…

HUMAN VALUES

The identity of the SWSP user is not affected

TRANSPARENCY

Yes, we do explain to the stakeholder how the technology works in broad terms. However, we do not explain how the algorithm for calculating stress would work, to the patient users. This is due to the technicality involved and some of the target users are patients with dementia.

IMPACT ON SOCIETY

The main problem this technology is trying to solve is the somewhat lack of stress levels representation in a manner that will aid in the early detection of a patient's stress.

STAKEHOLDERS

- Patients at medical organisations
- SWSP project managers (2)
- SWSP development team

SUSTAINABILITY

We offer cloud services. These cloud services are energy-consuming. However, we will be hosting our servers with suppliers that have high standards in environmentally friendly data centres.

HATEFUL AND CRIMINAL ACTORS

No

DATA

Yes, due to the signal of high-stress levels data not always being a bad outcome, we will give the users the ability to add a comment on each stress level to signify why their stress levels were high during that moment.

FUTURE

The SWSP can become a viable way for a medical organisation to detect stress quickly and gain reliable insight into a patients' stress levels

PRIVACY

Yes the SWSP Stress Wearable Platform does store some personal data of the patients and caregivers. The patients' and caregivers' names, email addresses, month and year of birth and the patient's stress levels.

INCLUSIVITY

For future enhancement of the technology with Machine learning some measurements training the AI most of the time are taken from men, because they do not have a menstrual cycle that 'messes' with their readings, so the results might be less accurate for women

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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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