NAME: Contact tracing application
DATE: September 4, 2024 6:40 PM

DESCRIPTION OF TECHNOLOGY
The contact tracing application will aid in preventing the spread of infectious disease through the tracing of people and if they have been in contact with people who are infected.

HUMAN VALUES

In a way, the use of this application does influence the identity of the user because the application acknowledges that Covid is a real threat to society and so using the application also means that in the opinion of the user that Covid is a problem or at least a threat that needs to be managed.

TRANSPARENCY

Technically there isn't a real business model with this application the development was made possible by the government and if the use is extensive enough the decrease of the spread of Covid could result in lower costs for the health care system.

IMPACT ON SOCIETY

The problem is that people that are infected with an infectious disease don't necessarily have symptoms of that disease but still can spread it. Once the infected person does realize he is infected he of course wants to warn the persons he has been in contact with. This application helps keeps track of the people that he has been in contact with and are at risk of infection.

STAKEHOLDERS

- Governments
- Health care workers
- Individuals who are vulnerable to diseases

SUSTAINABILITY

The application will use the energy from a user's phone or another mobile device. The servers where the data and the application is hosted will use a lot of energy to keep everything running. However, this energy could be sourced climate-friendly.

HATEFUL AND CRIMINAL ACTORS

This application can't be used to break the law or to avoid the consequences of breaking a law. The application itself can break the law if privacy/the handling of data isn't done correctly but ill come back on this in later subjects.

DATA

The fact is that an individual that gets Covid needs to test themselves and if they are tested positive for Covid they themselves have to indicate that they did test positive. This all is a big ask for a lot of users.

FUTURE

This application could even be used after Covid for other contagious diseases to limit the spread of the and to ensure that the pressure on hospitals is as low as possible.

PRIVACY

Yes the location of the user is actively traced during the use of the application. To prevent that this can be functionality can be used to trace people all data about a individual is anonymized. This means that both the developer and possible intruders can't use the application to trace individuals.

INCLUSIVITY

No, as far as I am aware there are no built-in biases for any user.

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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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