

COVID-19

Semester 7 project

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Technology Impact Cycle Tool

COVID-19

Impact on society

What impact is expected from your technology?

This category is only partial filled.

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

Easily sharing private data between eachother in a secure way

Are you sure that this technology is solving the RIGHT problem?

Entering a disco or festival, you can show that you do not have any diseases

How is this technology going to solve the problem?

Easily sharing data

What negative effects do you expect from this technology?

There is a lot of personal data involved

In what way is this technology contributing to a world you want to live in?

I want to help everyone sharing their personal data to the required authorities so that they can guarantee that everything is correct

Now that you have thought hard about the impact of this technology on society (by filling out the questions above), what improvements would you like to make to the technology? List them below.

This question has not been answered yet.

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Hateful and criminal actors

What can bad actors do with your technology?

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

There is a lot of personal data involved. We have to pay close attention to the GDPR and AVG

Can fakers, thieves or scammers abuse the technology?

Yes

Can the technology be used against certain (ethnic) groups or (social) classes?

Yes

In which way can bad actors use this technology to pit certain groups against each other? These groups can be, but are not constrained to, ethnic, social, political or religious groups.

With personal data, you can influence anyone with having this data. Spearphishing will be easier.

How could bad actors use this technology to subvert or attack the truth?

Get access to certain data

Now that you have thought hard about how bad actors can impact this technology, what improvements would you like to make? List them below.

More security

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Privacy

Are you considering the privacy & personal data of the users of your technology?

This category is only partial filled.

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

Almost everything

Do you think the technology invades the privacy of the stakeholders? If yes, in what way?

It does not invade privacy since it should not store any personal data, only the companies which have the data.

Is the technology is compliant with prevailing privacy and data protection law? Can you indicate why?

This needs to be researched

Does the technology mitigate privacy and data protection risks/concerns (privacy by design)? Please indicate how.

All data will be anonymized

In which way can you imagine a future impact of the collection of personal data?

This can affect certain personal situations (for example if someone is lying about a medical condition)

Now that you have thought hard about privacy and data protection, what improvements would you like to make? List them below.

This question has not been answered yet.

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Human values

How does the technology affect your human values?

This category is only partial filled.

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

They can easily share personal data

How does the technology influence the users' autonomy?

This question has not been answered yet.

What is the effect of the technology on the health and/or well-being of users?

You have an easy overview on what's going on with some personal services

Now that you have thought hard about the impact of your technology on human values, what improvements would you like to make to the technology? List them below.

This question has not been answered yet.

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Stakeholders

Have you considered all stakeholders?

This category is only partial filled.

Who are the main users/targetgroups/stakeholders for this technology? Think about the intended context by answering these questions.

Name of the stakeholder

Spektrax

How is this stakeholder affected?

They need to maintain and host the services

Did you consult the stakeholder?

Yes

Are you going to take this stakeholder into account?

Yes

Name of the stakeholder

A Dutch citizen

How is this stakeholder affected?

He needs to use the app

Did you consult the stakeholder?

No

Are you going to take this stakeholder into account?

Yes

Did you consider all stakeholders, even the ones that might not be a user or target group, but still might be of interest?

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Now that you have thought hard about all stakeholders, what improvements would you like to make? List them below.

This question has not been answered yet.

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Data

Is data in your technology properly used?

This category is only partial filled.

Are you familiar with the fundamental shortcomings and pitfalls of data and do you take this sufficiently into account in the technology?

Yes

How does the technology organize continuous improvement when it comes to the use of data?

We can add extra logging for the application, so that all error requests are stored

How will the technology keep the insights that it identifies with data sustainable over time?

It shouldn't

In what way do you consider the fact that data is collected from the users?

All data should be private and not be read by anyone, including the hosting company

Now that you have thought hard about the impact of data on this technology, what improvements would you like to make? List them below.

This question has not been answered yet.

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Inclusivity

Is your technology fair for everyone?

This category is only partial filled.

Will everyone have access to the technology?

The companies must apply their microservice to Spektrax

Does this technology have a built-in bias?

No

Does this technology make automatic decisions and how do you account for them?

It shouldn't do that in any way, everything that is done must be asked permission for!

Is everyone benefitting from the technology or only a small group?

Do you see this as a problem? Why/why not?

Everyone because everyone can share their personal data where they need to

Does the team that creates the technology represent the diversity of our society?

This question has not been answered yet.

Now that you have thought hard about the inclusivity of the technology, what improvements would you like to make? List them below.

This question has not been answered yet.

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Transparency

Are you transparent about how your technology works?

This category is only partial filled.

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

The company should be as transparent as possible to it's users so they can never not comply to the user's expectations. A lot of personal data will be processed

If the technology makes an (algorithmic) decision, is it explained to the users/stakeholders how the decision was reached?

Everything should be properly documented and this can be done via versioning and changelogs

Is it possible to file a complaint or ask questions/get answers about this technology?

It should be

Is the technology (company) clear about possible negative consequences or shortcomings of the technology?

They should be

Now that you have thought hard about the transparency of this technology, what improvements would you like to make? List them below.

This question has not been answered yet.

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Sustainability

Is your technology environmentally sustainable?

This category has not been filled yet.

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Future

Did you consider future impact?

This category is only partial filled.

What could possibly happen with this technology in the future?

Add extra services to this, like the BKR or other pandemics where this can be used

Sketch a or some future scenario (s) (20-50 years up front) regarding the technology with the help of storytelling. Start with at least one utopian scenario.

This question has not been answered yet.

Sketch a or some future scenario (s) (20-50 years up front) regarding the technology with the help of storytelling. Start with at least one dystopian scenario.

This question has not been answered yet.

Would you like to live in one of this scenario's? Why? Why not?

This question has not been answered yet.

What happens if the technology (which you have thought of as ethically well-considered) is bought or taken over by another party?

Data can be modified or abused, so this should never happen

Impact Improvement: Now that you have thought hard about the future impact of the technology, what improvements would you like to make? List them below.

This question has not been answered yet.