




NAME: tict 

DATE: September 6, 2024 1:27 PM


DESCRIPTION OF TECHNOLOGY
tict

HUMAN VALUES 


The guideline assumes that there are holes in your software and will give guidelines on how to prevent or fix them. There might be different ways to solve them, however.

TRANSPARENCY 


The guidelines are explained well. Since it's mostly aimed at the creators of IoT, from software to technical, there may be some technical speech, but we'll try and make it as understandable as possible.

IMPACT ON SOCIETY 


Right now, there is no general guideline to follow with Internet of Things applications. We strive to create one.

STAKEHOLDERS 


- Users of IoT
- Creators of IoT

SUSTAINABILITY 


Since it's a guideline, the only energy needed is the energy to write it, read it, and possibly host it.

HATEFUL AND CRIMINAL ACTORS 


The guidelines will tell you where the problems are and the best ways to prevent or solve these. If these problem areas aren't properly fixed, however, they might give a hint as to where to look to hack IoT devices.

DATA 


Since the IoT we're going to analyze are from office and industrial IoT, there may be separate issues when looking at medical, home, or military IoT.

FUTURE 

The guideline may become obsolete with changing times and technology.

PRIVACY 




No, it won't register personal data.

INCLUSIVITY 


Since the IoT we're going to analyze are from office and industrial IoT, there may be separate issues when looking at medical, home, or military IoT.

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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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