QUICKSCAN - CANVAS

IoT Security

NAME: IoT Security DATE: September 6, 2024 12:14 PM DESCRIPTION OF TECHNOLOGY Security guidelines for Industry and Home/Office IoT devices.	HUMAN VALUES The user will become more aware of the security of IoT devices.	TRANSPARENCY The security guidelines cannot have a businessmodel, because they are security standard used for categorizing and describing security vulnerabilities and flaws.
IMPACT ON SOCIETY The challenge is to find and secure the most common vulnerabilities in IoT devices. The security guidelines and principles will help to secure them.	STAKEHOLDERS - Casper Schellekens (Project leader/research) - Taede (Lector/Research group leader) - Mark Madsen (Researcher) - Ron Mlotte (Coach) - Ctouch	SUSTAINABILITY The guidelines are documents and the energy use is not applicable in this context.
HATEFUL AND CRIMINAL ACTORS The security guidelines can be used from a hacker that can see the common vulnerabilities in IoT devices. By knowing these vulnerabilities he can try to abuse them, which in most cases is illegal.	DATA The limitations of our research will be described in our guidelines.	FUTURE This guideline can be updated and expanded over time. This will help to keep everything up to date, because every technology changes over time, and without updating these guidelines they will become outdated.
PRIVACY (i) The IoT devices can store a personal data. For example, there could be an IoT device connected to a camera or some other device that can collect and store data.	INCLUSIVITY The security guidelines for IoT devices do not have a bias, because they are documents and the bias is not applicable in this context.	FIND US ON WWW.TICT.IO THIS CANVAS IS PART OF THE TECHNOLOGY IMPACT CYCLE TOOL. THIS CANVAS IS THE RESULT OF A QUICKSCAN. YOU CAN FILL OUT THE FULL TICT ON WWW.TICT.IO WWW.TICT.IO WITH THE FULL TICT ON WWW.TICT.IO

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data. If the technology collects special personal data (like...

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University of Applied Sciences

NAME: IoT Security DATE: September 6, 2024 12:14 PM DESCRIPTION OF TECHNOLOGY Security guidelines for Industry and Home/Office IoT devices.	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 appeal 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 page? Be artical Be aware of your own biases	FIND US ON WWW.TICT.IO THIS CANVAS IS PART OF THE TECHNOLOGY IMPACT CYCLE TOOL. THIS CANVAS IS THE RESULT OF A QUICKSCAN. YOU CAN FILL OUT THE FULL TICT ON WWW.TICT.IO Fontys

case? Be critical. Be aware of your own biases....