



**NAME:** Car Parking application 

**DATE:** September 5, 2024 2:10 PM


**DESCRIPTION OF TECHNOLOGY**  
 an application that a secretary uses to help plan appointments, but it also detects parked cars.

**HUMAN VALUES** 


Firstly, the technology aims to improve the experience of visitors to the company by providing a more convenient and efficient parking solution. This may impact the perception of the company in the eyes of the visitor, as they are more likely to have a positive experience and view the organization as being customer-oriented and innovative. Secondly, the technology may impact the identity of the secretary. They may be viewed as more efficient and responsive in their role

**TRANSPARENCY** 


Yes, the technology is discussed with the stakeholder every week.

**IMPACT ON SOCIETY** 


The problem this technology aims to solve is the challenge of finding a parking spot when visiting a company or building with limited parking space far away. This can be a frustrating and time-consuming task for visitors, who may have to circle around the building or leading to delays and inconvenience.

**STAKEHOLDERS** 


- Sioux

**SUSTAINABILITY** 


To minimize the direct energy use, the system should be designed to be energy-efficient, for example by using low-power cameras and optimizing the software algorithms to reduce computational requirements. To minimize the indirect energy use, the system should be designed to be durable, easy to maintain and repair

**HATEFUL AND CRIMINAL ACTORS** 


if the system is not secure enough, there is a risk that the license plate detection system could be hacked.

**DATA** 


One potential pitfall in the parking system described in the project is the accuracy and reliability of the license plate detection technology. If the system is not calibrated correctly or if there is a technical issue, the system may not accurately detect license plates, which could result in incorrect notifications being sent to the secretary or client. Another potential pitfall is the privacy and security of the data collected by the system.

**FUTURE** 

Increased integration with other systems: The parking system could become more integrated with other smart city technologies, such as traffic management or public transportation systems. This could enable more efficient use of parking spaces and improve overall traffic flow in urban areas.

**PRIVACY** 

Yes, full name, license plate, phone number, e-mail, time of arrival


**INCLUSIVITY** 

If the system is trained on data that is not diverse or representative of all possible license plate types, it may be less accurate for certain types of license plates. This could disproportionately impact certain groups of people, such as those with non-standard or personalized license plates.

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**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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