QUICKSCAN - CANVAS

Sioux Parking Application

NAME: Sioux Parking Application
DATE: May 3, 2025 10:45 AM
DESCRIPTION OF TECHNOLOGY
A parking and appointment system for Sioux, where arriving visitors are assigned a parking spot, and both them and the attendees from sioux are notified about their appointment.

HUMAN VALUES

This technology is purely used to schedule appointments and facilitates parking. It does not impact a person's identity.

TRANSPARENCY

The product owners know in detail how our software will work, as we have kept in regular contact during development. For normal users, a short installation and user guide will be provided so they know how to work with the technology. We will NOT be providing full details of the technological diagrams to users and visitors, as this is not necessary for their use of the technology. We will be providing this to the System Administrators, as they need to know how to maintain our product.

IMPACT ON SOCIETY

The secretary of the company often needs to accompany and call people in the company whenever a visitor arrives. This takes time off his hands, which he can use to do other more important work. Our technology aims to reduce this loss of productivity, by automating this part of the process. It also solves another problem: their parking lot is limited in size. Whenever a visitor arrives, they can not be sure if there is an available visitors-only parking spot. Our technology will keep track of parking spots, and notify visitors where they can par…

STAKEHOLDERS

- Secretary
- Visitors
- Managers
- Product Owners

SUSTAINABILITY

We strive to make our system as efficiently as possible. The services will be hosted by the Product Owners themselves, and product will only be run on a few machines at a time. Because of this, energy consumption is already at a low point.

HATEFUL AND CRIMINAL ACTORS

The most obvious part is that the stored personal data could be leaked by the secretary or system administrator, or they could be hacked. This would mean a lot of personal data would be available to the general public.

DATA

In the case of data shortcomings: our technology will have the option to edit any persons data which is stored in the database. If there is missing data, it can always be added later. As for a wrongly scanned license plate: there is nothing we can do for that. To mitigate the effects of this, if no valid license plate is scanned, the user is instructed to just park and talk to the secretary at the front desk.
The secretary should make sure no duplicates exist.

FUTURE

Our parking and appointment system could be an inspiration for other companies around the world. Copies could be made, or we could be asked to upscale it for a bigger audience, which would change our considerations regarding energy and technology usage.

PRIVACY

Yes. We register name, phone number, email, license plates.

INCLUSIVITY

This technology has some built in bias, as it is meant to be useful to primarily visitors that are using their car to arrive to the clients offices, however visitors with a vehicle which does not have a license plate or without a vehicle entirely cant make use of it. This is not a big concern however as the intention is to reduce the volume of visitors that rely on the secretary. Since most visitors would arrive by car, the few that dont will not be problematic.

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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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