NAME: Sioux Parking Application

DATE: September 4, 2024 1:16 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

Like all software, there can be some technical issues affecting accuracy, so we will make sure that the users understand that the application is there just to help them make a better decision and/or to help them be more efficient. But they still have to rely on their common sense and/or human reasoning.

TRANSPARENCY

None

IMPACT ON SOCIETY

We only intended the app to handle notifying visitors on which parking lot to use and organizers on when their guests arrive. But since we must store meetings and contact info, we make people schedule meetings twice, one official and one for the notification system. A future iteration of our technology could be integrated with Microsoft Teams or whatever scheduling application the company uses.

STAKEHOLDERS

By doing a stakeholder analysis we now better understand that not only the secretary is responsible for taking care of the visitors. There is also the manager and administrator who help the visitors to have a good experience related to their appointments/visits.

We must ensure that we take these target groups into consideration.

SUSTAINABILITY

We can't really make any improvements, due to the small scope of our technology and it's effect on the environment is most likely unnoticable.

HATEFUL AND CRIMINAL ACTORS

More secure access to the application. We already have a login system, but in a future iteration, authentication would be a point of improvement

DATA

Some improvements we had in mind are:

In case the company is being sold, inform users and automate that process

Automate the removal process of data not being accessed (keep track of when certain data was accessed within the database, so that we know which data are no longer in use)

FUTURE

If we are to assume that this technology exists in a vacuum and the only one of its kind, in order to avoid a dystopian future, one solution would be to never release it. This assumes that nobody else would be capable of reproducing it, which is not founded. Any improvements and time spent on it from the perspective of the current developers is to work within the scope that was defined with the client.

PRIVACY

Future improvements we had in mind are:

Audit user access to personal data

Limit access even more to only secretary and administrator

A specific dashboard for the administrator for an overview of user access and to keep track of possible privacy related intrusion.

INCLUSIVITY

There are concerns about whether all vehicles with license plates will be able to make use of the technology, due to the difference in format, therefore it would be good to make improvements in that regard.

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TICT

HUMAN VALUES

Now that you have thought hard about the impact of your technology on human values, what improvements…

If you think about the impact of this technology on human values and needs. If you think about how this technology affects the identity of the user, the autonomy of the user (can the users make their own decisions?) and the health and well-being of the user. If you think about all that, what improvement would you (want to) make? In the technology?…

TRANSPARENCY

Now that you have thought hard about the transparency of this technology, what improvements would you like t…

If you think about the communication on the way the technology works and the businessmodel. If you think about the explanation on automatic decisions that are made. If you think about complaint procedures and transparency on possible negative effects. If you think about all that, what would you (want to) improve? In the technology? In context?…

IMPACT ON SOCIETY

Now that you have thought hard about the impact of this technology on society (by filling out the questions…

If you think about the real problem this technology is going to solve. If you think about the ability of this technology to solve the real problem. If you think about possible negative effects and whether this technology will contribute to a world you want to live in. If you think about all that, what improvements would you make? In technology? In context? In use?…

STAKEHOLDERS

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

If you think about all stakeholders of this technology. If you think about stakeholders that are less obvious. If you think about the way certain stakeholders are affected by this technology and if you want to take them into consideration. If you think about all that, what would you (want to) improve? In the technology? In context? In use?…

SUSTAINABILITY

Now that you have thought hard about the sustainability of this technology, what improvements would you like t…

If you think about the direct and indirect energy use and the materials that are used in the technology. If you think about the lifespan of the technology and the hidden environmental impact of the technology. If you think about all that, what improvements would you (want to) make? In the technology? In context? In use?…

HATEFUL AND CRIMINAL ACTORS

Now that you have thought hard about how bad actors can impact this technology, what improvements would…

If you think about this technology being used to break the law, or avoid the consequences of breaking the law, or to be used against certain groups, or to attack the truth or to pit certain groups against each other. If you think about all of that, what improvements would you (want to) make? In the technology? In context? In use?…

DATA

Now that you have thought hard about the impact of data on this technology, what improvements would you…

If you think about the limitations of data. Things like subjectivity, incomplete datasets and so on. If you think about the way new insights are handled. If you think about the sustainability of the collection of data or the data that is collected from the users. If you think about all that, what would you (want to) improve? In the technology? In context?…

FUTURE

Impact Improvement: Now that you have thought hard about the future impact of the technology, what…

If you think about an utopian and a dystopian scenario. If you think about the way this technology can change the world. If you think about the consequences of a different party buying your technology. If you think about all that, what would you (want to) improve? In the technology? In context? In use? …

PRIVACY

Now that you have thought hard about privacy and data protection, what improvements would you like to make?…

If you think about this technology invading someone's privacy or collecting personal data and if you think about the way this technology is compliant with prevailing law and mitigates dataprotection risks and concerns. If you think about all that, what improvements would you (want to) make? In the technology? In context? In use?…

INCLUSIVITY

Now that you have thought hard about the inclusivity of the technology, what improvements would you like to…

If you think about accessibility to this technology. If you think about built in biases or automatic decisions that may be biased. If you think about who is benefitting from this technology and the diversity of the team that creates the technology. If you think about all that, what improvements would you (want to) make? In the technology? In context? In use?

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