


NAME: Sioux Meeting Management System

DATE: May 2, 2025 1:28 AM

DESCRIPTION OF TECHNOLOGY


This is an analysis of the Meeting Management System dedicated to the project proposed by Sioux for the 3rd-semester students of Software Engineering at Fontys. This system will consist of a web application that will ease the process of managing meetings and tracking the client's parking spots.

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HUMAN VALUES

One way to improve the impact of technology on human values is to ensure that the development and use of technology are guided by ethical principles and considerations. This can involve incorporating ethical considerations into the design and development process for new technologies, as well as regularly evaluating the potential ethical impacts of existing and emerging technologies. Additionally, it is important to engage in dialogue with a diverse range of stakeholders, including experts in ethics an...


TRANSPARENCY

We can have an in-depth discussion with the stakeholders about the possible shortcomings of the technology and try to come up with solutions together if its a serious problem.


IMPACT ON SOCIETY

We would include also the "unexpected" visitors in this scenario, the ones that do not have an appointment or visitors that come for a special event. We could implement a reservation system in this case.


This way we can improve even more the experience at Sioux.

STAKEHOLDERS

We would involve stakeholders in the design and implementation process to ensure that their needs and concerns are considered and addressed(secretary and employees). Also, conduct regular evaluations and assessments of the technology to identify and address any potential negative impacts on stakeholders. We would also provide training and support to stakeholders to ensure that they are able to use the technology effectively and efficiently (secretary).


SUSTAINABILITY

We would like to put infrared sensors' advantages into practice. Infrared sensors are environmentally friendly because they do not emit any harmful substances into the atmosphere. They work by detecting changes in infrared radiation, which is a type of electromagnetic radiation that is naturally present in the environment. Infrared sensors are often used in applications such as motion detection, temperature measurement, and thermal imaging, and they do not produce any emissions or waste products. Additionally,...

HATEFUL AND CRIMINAL ACTORS


In order to secure the use of our technology, we could implement additional identity checks like facial recognition.

Regarding the security of our data, we believe that by encrypting our data properly, we can avoid attacks.

DATA


We could always take more measures to make our technologists data more secure.

- We could always take more measures to make the dataflow of our application smoother.


FUTURE

- By keeping the system up to date with the progress of A.I. technology, it could avoid the danger of being rendered completely useless, it could even be one of the main components in the parking algorithms of A.I.

- We could emphasize the importance of keeping the data of the application secure in the case of it being taken over by another party.

PRIVACY

We believe we should implement robust privacy and security measures to protect individual's personal data and ensure that it is used in an ethical and transparent manner. This can include measures such as encryption, access controls, and data minimization. Also, the stakeholders should be provided with clear and concise information about how their data is being collected, used, and shared.

INCLUSIVITY

Our technology is not making any discrimination in any way. Also, each stakeholder has access to the features that are truly necessary to them. We might improve how our system deals with physically impaired people. The people in this situation may mention this at the moment of making the appointment and the closest parking spot to the entrance can be kept especially for them.

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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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