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Created by: tomp  
Created on: November 5, 2024 11:11 AM  
Changed on: November 5, 2024 11:42 AM

Context of use: Education  
Level of education: Bachelor

# Technology Impact Cycle Tool

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## Impact on society

What impact is expected from your technology?

*This category is only partial filled.*

## What is exactly the problem? Is it really a problem? Are you sure?

*This question has not been answered yet.*

## Are you sure that this technology is solving the RIGHT problem?

*This question has not been answered yet.*

## How is this technology going to solve the problem?

*This question has not been answered yet.*

## What negative effects do you expect from this technology?

*This question has not been answered yet.*

## In what way is this technology contributing to a world you want to live in?

*This question has not been answered yet.*

## Now that you have thought hard about the impact of this technology on society (by filling out the questions above), what improvements would you like to make to the technology? List them below.

Improving the office reservation system could involve adding smart scheduling to suggest optimal spaces based on availability and preferences, making booking faster and more efficient. Privacy settings would let employees show general availability without sharing specifics, helping them manage their time without oversharing. Finally, including accessibility filters would ensure the system meets everyone's needs seamlessly.

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## **Hateful and criminal actors**

What can bad actors do with your technology?

*This category is only partial filled.*

## **In which way can the technology be used to break the law or avoid the consequences of breaking the law?**

*This question has not been answered yet.*

## **Can fakers, thieves or scammers abuse the technology?**

*This question has not been answered yet.*

## **Can the technology be used against certain (ethnic) groups or (social) classes?**

*This question has not been answered yet.*

## **In which way can bad actors use this technology to pit certain groups against each other? These groups can be, but are not constrained to, ethnic, social, political or religious groups.**

*This question has not been answered yet.*

## **How could bad actors use this technology to subvert or attack the truth?**

*This question has not been answered yet.*

## **Now that you have thought hard about how bad actors can impact this technology, what improvements would you like to make? List them below.**

To keep the reservation system secure, implementing two-factor authentication and single sign-on (SSO) would make logging in safer and more convenient for users. Privacy settings would let employees control what availability details they share, adding an extra layer of data protection. Finally, with audit logs and activity monitoring, admins could quickly spot and address any unusual activity to keep everything running smoothly.

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## Privacy

Are you considering the privacy & personal data of the users of your technology?

*This category is only partial filled.*

**Does the technology register personal data? If yes, what personal data?**

*This question has not been answered yet.*

**Do you think the technology invades the privacy of the stakeholders? If yes, in what way?**

*This question has not been answered yet.*

**Is the technology is compliant with prevailing privacy and data protection law? Can you indicate why?**

*This question has not been answered yet.*

**Does the technology mitigate privacy and data protection risks/ concerns (privacy by design)? Please indicate how.**

*This question has not been answered yet.*

**In which way can you imagine a future impact of the collection of personal data?**

*This question has not been answered yet.*

**Now that you have thought hard about privacy and data protection, what improvements would you like to make? List them below.**

To improve privacy, encrypting data both in transit and at rest would keep user schedules and details secure from unauthorized access. Setting up clear data retention policies would prevent the storage of unnecessary information over time, reducing exposure risks. Regular security audits could also help identify and address potential privacy vulnerabilities early.

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## Human values

How does the technology affect your human values?

*This category is only partial filled.*

**How is the identity of the (intended) users affected by the technology?**

*This question has not been answered yet.*

**How does the technology influence the users' autonomy?**

*This question has not been answered yet.*

**What is the effect of the technology on the health and/or well-being of users?**

*This question has not been answered yet.*

**Now that you have thought hard about the impact of your technology on human values, what improvements would you like to make to the technology? List them below.**

To make the reservation system more effective, we should focus on creating a user-friendly design that everyone can navigate easily. Adding features that promote collaboration would enhance teamwork among users. Plus, incorporating options that support work-life balance would improve the overall user experience.

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## Stakeholders

Have you considered all stakeholders?

*This category is only partial filled.*

**Who are the main users/targetgroups/stakeholders for this technology? Think about the intended context by answering these questions.**

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**Did you consider all stakeholders, even the ones that might not be a user or target group, but still might be of interest?**

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

To better serve all stakeholders, we should implement features that allow for easy communication and feedback between users and administrators, ensuring everyone feels heard. Offering training and support resources for all users would help them make the most of the system. Finally, including options for users to suggest improvements or report issues would lead to smoother operations overall.

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## Data

Is data in your technology properly used?

*This category is only partial filled.*

**Are you familiar with the fundamental shortcomings and pitfalls of data and do you take this sufficiently into account in the technology?**

*This question has not been answered yet.*

**How does the technology organize continuous improvement when it comes to the use of data?**

*This question has not been answered yet.*

**How will the technology keep the insights that it identifies with data sustainable over time?**

*This question has not been answered yet.*

**In what way do you consider the fact that data is collected from the users?**

*This question has not been answered yet.*

**Now that you have thought hard about the impact of data on this technology, what improvements would you like to make? List them below.**

To improve the impact of data on the reservation system, we should focus on optimizing data accuracy and consistency by implementing validation checks when users enter information. Additionally, utilizing analytics to monitor usage patterns could help inform better decision-making about space allocation and resource management. Finally, ensuring seamless data integration with existing tools would streamline operations and enhance overall efficiency.

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## **Inclusivity**

Is your technology fair for everyone?

*This category is only partial filled.*

## **Will everyone have access to the technology?**

*This question has not been answered yet.*

## **Does this technology have a built-in bias?**

*This question has not been answered yet.*

## **Does this technology make automatic decisions and how do you account for them?**

*This question has not been answered yet.*

## **Is everyone benefitting from the technology or only a a small group?**

### **Do you see this as a problem? Why/why not?**

*This question has not been answered yet.*

## **Does the team that creates the technology represent the diversity of our society?**

*This question has not been answered yet.*

## **Now that you have thought hard about the inclusivity of the technology, what improvements would you like to make? List them below.**

To boost inclusivity in the reservation system, we should ensure the interface is accessible for people with disabilities, like incorporating screen reader compatibility and keyboard navigation. Adding multiple language options would also make the system more welcoming for non-native speakers. Lastly, providing features that accommodate diverse work styles, such as quiet spaces for focused work or collaboration areas for team activities, would help meet everyone's needs.

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## Transparency

Are you transparent about how your technology works?

*This category is only partial filled.*

**Is it explained to the users/stakeholders how the technology works and how the business model works?**

*This question has not been answered yet.*

**If the technology makes an (algorithmic) decision, is it explained to the users/stakeholders how the decision was reached?**

*This question has not been answered yet.*

**Is it possible to file a complaint or ask questions/get answers about this technology?**

*This question has not been answered yet.*

**Is the technology (company) clear about possible negative consequences or shortcomings of the technology?**

*This question has not been answered yet.*

**Now that you have thought hard about the transparency of this technology, what improvements would you like to make? List them below.**

To improve transparency in the reservation system, we should clearly display how bookings and availability are managed to avoid confusion among users. Providing easy access to documentation and FAQs about the system's features would help users understand how it works. Finally, incorporating a changelog that outlines updates and improvements would keep everyone informed about what's new and how it benefits them.

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## Sustainability

Is your technology environmentally sustainable?

*This category is only partial filled.*

## In what way is the direct and indirect energy use of this technology taken into account?

*This question has not been answered yet.*

## Do you think alternative materials could have been considered in the technology?

*This question has not been answered yet.*

## Do you think the lifespan of the technology is realistic?

*This question has not been answered yet.*

## What is the hidden impact of the technology in the whole chain?

*This question has not been answered yet.*

## Now that you have thought hard about the sustainability of this technology, what improvements would you like to make? List them below.

To enhance the sustainability of the reservation system, we could integrate features that promote efficient space utilization, like suggesting times when certain areas are underused. Implementing digital notices instead of printed materials for room bookings would also help reduce paper waste. Lastly, tracking and reporting on energy usage for different spaces could provide insights into how to improve overall energy efficiency in the workplace.

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## Future

Did you consider future impact?

*This category is only partial filled.*

**What could possibly happen with this technology in the future?**

*This question has not been answered yet.*

**Sketch a or some future scenario (s) (20-50 years up front) regarding the technology with the help of storytelling. Start with at least one utopian scenario.**

*This question has not been answered yet.*

**Sketch a or some future scenario (s) (20-50 years up front) regarding the technology with the help of storytelling. Start with at least one dystopian scenario.**

*This question has not been answered yet.*

**Would you like to live in one of this scenario's? Why? Why not?**

*This question has not been answered yet.*

**What happens if the technology (which you have thought of as ethically well-considered) is bought or taken over by another party?**

*This question has not been answered yet.*

**Impact Improvement: Now that you have thought hard about the future impact of the technology, what improvements would you like to make? List them below.**

To ensure a positive future impact of the reservation system, we should focus on scalability, making sure it can easily adapt to changes in team sizes or office layouts. Developing a mobile app would enhance accessibility, allowing users to make reservations on the go. Lastly, implementing user feedback mechanisms will help us continuously improve the system based on actual needs and preferences.