


NAME: Spring Boot (Java) and React (Javascript)


DATE: September 14, 2025 11:25 AM

DESCRIPTION OF TECHNOLOGY

It's a office reservation system. The requirements outline a comprehensive system for managing team schedules and room reservations, utilizing React for the frontend and Java for the backend. The implementation will leverage a CI/CD platform with GitLab CI to ensure continuous integration and delivery. Unit testing is essential, with frameworks like JUnit for Java being employed to ensure code reliability....



HUMAN VALUES




The identity of users is deeply intertwined with the technology of an office reservation system. By shaping how they interact with each other, defining their roles, influencing their perceptions, and either empowering or detracting from their dignity, the technology not only facilitates office management but also profoundly affects the social and professional identities of its users. It is essential to consider these factors in the design and implementation of the system to promote a positive impact on user identity.

TRANSPARENCY




IMPACT ON SOCIETY




After the pandemic, remote work became more common, and even as things returned to normal, many employees continued working from home. In this company, a hybrid work model is in place where employees alternate between working from home and coming to the office. However, the office doesnt have enough space to accommodate everyone at once. As a result, the company wants to implement an office reservation system to allow employees to easily schedule their in-office days and enable team managers to...

STAKEHOLDERS




SUSTAINABILITY




The direct energy use is managed by optimizing server and device processes, while indirect energy use considers the environmental impact of upstream infrastructure like data centers. Hosting on energy-efficient, renewable-powered servers reduces the overall energy consumption

HATEFUL AND CRIMINAL ACTORS




While the office reservation system is designed to facilitate efficient workspace management, it is crucial to consider the potential for misuse. Addressing these risks through robust security measures, clear policies, and ethical guidelines is essential to prevent illegal activities and protect users' rights and well-being. Implementing strict access controls, monitoring for suspicious behavior, and educating users about privacy and security best practices can help mitigate these risks

DATA




FUTURE




In the future, this technology could either be maintained and enhanced by the company, ensuring its relevance, or become outdated if not regularly updated. Technological advancements could also lead to its expansion or replacement, depending on how well it adapts to evolving needs.

PRIVACY



Yes, it registers the e-mail and password of the users of it.


INCLUSIVITY





no

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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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