Java Springboot

I chose Java Spring Boot, due to its strong support for RESTful API development, fast setup, and wide adoption in enterprise applications. It allows to create scalable, secure, and maintainable backend services quickly.

Created by: i506981 Created on: May 23, 2025 11:21 PM Changed on: May 23, 2025 11:29 PM

> Context of use: Education Level of education: Bachelor

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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? Inefficient communication and data handling in ERs causes delays and errors. Spring Boot helps build a fast, secure backend to support real-time data, user management, and system integration easing pain for both developers and healthcare staff.

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. This question has not been answered yet.

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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?

If not secured properly, the system could expose sensitive patient data, risking privacy breaches or identity theft. Malicious users might misuse access to view, alter, or leak medical records. Its crucial to enforce strict access control and data encryption to prevent abuse.

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.

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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?

Yes, the system handles sensitive personal data, including health information. Like diagnosis, BSN, full name, age, diseases etc.

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. This question has not been answered yet.

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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? The system empowers ER staff by improving communication and reducing stress, helping them feel more in control and professional. It doesn't replace human roles but enhances them. It encourages teamwork and timely care, which strengthens trust between colleagues.

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.

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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.

Name of the stakeholder Triage Nurses

How is this stakeholder affected?

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Did you consult the stakeholder?

Are you going to take this stakeholder into account?

Name of the stakeholder ER Doctors

How is this stakeholder affected?

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Did you consult the stakeholder?

Are you going to take this stakeholder into account?

Name of the stakeholder ER Nurses

How is this stakeholder affected?

Did you consult the stakeholder? No

Are you going to take this stakeholder into account? No

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Name of the stakeholder Hospitals (ER department)

How is this stakeholder affected?

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Did you consult the stakeholder? No

Are you going to take this stakeholder into account? No

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

Now that you have thought hard about all stakeholders, what improvements would you like to make? List them below. This question has not been answered yet.

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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? Yes, data can be incomplete, biased, and subjective. The technology is designed to handle these by validating inputs, using standardized formats, and focusing on critical, reliable data only.

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.

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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?

The technology isnt biased because it relies on the standardized ABCDE assessment method, which is a widely accepted clinical framework. This method helps ensure consistent, objective evaluation across all users, reducing personal or historical biases in decision-making.

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.

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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?

Its aiming to be easy to use with little clicks as possible, using information the stakeholders should already know.

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.

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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?

The technology aims to provide fast, reliable communication and data handling in healthcare. To minimize energy use, it uses efficient backend frameworks like Spring Boot and cloud hosting (Azure) that can scale resources on demand. Improvements could include optimizing code for performance, using serverless functions where possible, and leveraging energy-efficient data centers.

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.

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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? When scaled to millions of users, the biggest challenge is handling vast amounts of sensitive data securely and efficiently. Communities could benefit from better coordinated care and faster responses, potentially shifting norms toward more data-driven healthcare. However, increased data use might raise privacy concerns and reliance on technology, changing habits around trust and communication in medical settings.

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.