

NAME: Bsky Airline administration

DATE: May 9, 2021 11:00 PM

DESCRIPTION OF TECHNOLOGY

Bsky is a Spring Boot/React application built for a fictional airline company to manage their users/flights/airplanes



HUMAN VALUES

My application does not affect the identity of it's users



TRANSPARENCY

The technology is simple to user because it's a website for booking flights. The business model is not explained to normal users because they don't need to know how the airline company generates it's revenue. It is assumed that the company makes a profit based on the flight costs after administrative and maintenance fees.



IMPACT ON SOCIETY

The challenge is to create the interface and functionality for an airline company to manage their users, flights and planes. This allows system administrators to keep track of everything going on in the system and normal users to book flights.



STAKEHOLDERS

- People wanting to fly to another country
- Bsky employees



SUSTAINABILITY

In the application the airplanes the company uses are shown along with specific details such as top speed and fuel consumption. When booking a flight the airplane could be shown so the user has the option to choose a more fuel efficient one even though it might be slower.



HATEFUL AND CRIMINAL ACTORS

The way this technology can be used to break the law is if a hacker somehow manages to break into the database, they will have access to a lot of user information, as well as sensitive company data.



DATA

The data of users is very important in an application like this. Because of that i keep in mind the OWASP top ten web application security risks while developing so the users are as best protected as they can



FUTURE

The application could be expanded to contain a lot more features based on requests from stakeholders.



PRIVACY

This application registers user's email, names and their date of birth.



INCLUSIVITY

It does not have any built in bias. The only difference possible would be to offer lower prices for flights if a user is a child (for example) based on their date of birth



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IMPACT ON SOCIETY



What is the challenge at hand? What problem (what 'pain') does this technology want to solve?

This technology is designed to solve a problem. That is why it is important to exactly define which problem this technology is going to solve. Can you make a clear definition of the problem? What 'pain' does this technology want to ease? Whose pain? The problem definition will help you to determine and discuss if you are solving the right problem.


HATEFUL AND CRIMINAL ACTORS



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

Can you imagine ways that this technology can or will be used to break the law? Think about invading someone's privacy. Spying. Hurting people. Harassment. Fraud/identity theft and so on. Or will people use this technology to avoid facing the consequences of breaking the law (using trackers to evade speed radars or using bitcoins to launder money, fo...


PRIVACY



Does this 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. 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 this technology collects special personal data (like health or ethnicity) you should be extra...


HUMAN VALUES



How does your technology affect the identity of users?

To answer this question think about sub questions like: Can the technology be perceived as stigmatising? Does the technology imply or impose a certain belief or world view? Does the technology affects users' dignity? Is the technology in line with the person the user wants to be perceived as?


STAKEHOLDERS



Who are the main users/targetgroups/stakeholders for this technology?

For the Quick Scan, you only have to list the stakeholders. Can you think of the people that are directly or indirectly affected by this technology? There are a lot of stakeholders that are obvious (like users) but we invite you also to think about the less obvious ones. Missing a stakeholder can have great consequences....


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. Data is always subjective. Data collections are never complete. Correlation and causation are tricky concepts. Data collections are often biased. Reality is way more complex than a million datapoints. Are you aware of these issues? How does this technology take these issues into account?...


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 wascollected, 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 youknow this is not the case? Be critical. Be aware of your own biases.


TRANSPARENCY



How is it explained to the users about how a technology works and how the business model works?

Is it easy for users to find out how your 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 business model works?


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.

FUTURE



What could possibly happen with this technology in the future?

Discuss this quickly and note your first thoughts here.

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