



NAME: Spotify

DATE: July 4, 2025 3:52 PM


DESCRIPTION OF TECHNOLOGY

Spotify clone




HUMAN VALUES


The platform empowers artists by giving them visibility and control over their work. It also allows users to express their musical taste and identity more freely. However, it could impact privacy or identity if accounts are misused or if public data is poorly protected.


TRANSPARENCY

Yes, users are informed that the platform uses cloud storage, streaming endpoints, and SAS tokens for secure access. The business model focuses on fair distribution for artists, with clear documentation and transparent policies for both listeners and contributors.


IMPACT ON SOCIETY

The current music platforms are often limited in supporting diverse or AI-generated music content. This makes it harder for emerging or experimental creators to publish their work. A modern, flexible platform is needed to accommodate all music types in a more open and dynamic way.


STAKEHOLDERS

SUSTAINABILITY


The platform uses containerized services and serverless functions to scale efficiently, reducing unnecessary compute usage. Streaming and storage are optimized to prevent idle usage. However, there is always room for improvement by further reducing cloud resource consumption.

HATEFUL AND CRIMINAL ACTORS


Users could upload copyrighted music without proper licensing, or distribute harmful or offensive content disguised as music. The system could also be misused to bypass copyright detection if not properly moderated. Streaming AI-generated voices without consent could also violate privacy or likeness rights.

DATA


Yes, we understand that data can be incomplete, biased, or misinterpreted. We ensure our system avoids relying too heavily on data-based assumptions (like popularity metrics), and we regularly review how we collect and present data to users.

FUTURE

With mass adoption, this platform could change how people discover and interact with music, especially with the rise of AI-generated content. It could redefine artist identity, licensing models, and even challenge what we traditionally consider "music creation."

PRIVACY




Yes, the platform registers usernames, email addresses, and user roles (such as artist or listener). It may also store uploaded song metadata and IP addresses for tracking access. All of this falls under GDPR and privacy compliance.

INCLUSIVITY

There is a potential for bias if the system prioritizes popular or mainstream content over niche genres or AI-generated music. This can be mitigated by using diverse training datasets and giving equal opportunity to different music types in recommendations.

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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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