

# Lisk Marketplace

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# Technology Impact Cycle Tool

Lisk Marketplace

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## Impact on society

What impact is expected from your technology?

### What is the challenge at hand? What problem (what 'pain') do you want to solve?

The problem is that at this moment there are no applications being developed using lisk and blockchain because if applications need delegates it's hard to find them.

That is why we'll be working on a marketplace to bring the sidechain-owners and users who want to be delegates together.

### Can you motivate why you are sure that you are solving the right problem?

Because in our opinion it might be a good solution to the problem we're facing.

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

By bringing the sidechain-owners and users who want to be delegates together we give developers an opportunity to develop their application and effectively kick start the project.

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

Possible negative effects are that users with malicious intent might abuse the system and by doing so spread for example viruses.

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

This project is a step in the direction of more applications using a blockchain. Which means that applications will become safer.

### Did you make any changes to the design of your technology because of the questions about the impact? If yes, please list them here.

No.

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## Hateful and criminal actors

What can bad actors do with your technology?

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

A user with malicious intent might create a sidechain and ask users who want to be delegates to install software that can harm them.

### **Can you imagine your technology being used to cross personal- or societal boundaries?**

A bad actor could write insulting things to other users.

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

A bad actor could write insulting things to other users.

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

There is no realistic way we see the marketplace pitting people together.

### **How could bad actors use your tech to subvert or attack the truth?**

I can't think of anything.

### **Did you make any changes to the design of your technology because of the questions about the impact? If yes, please list them here.**

No.

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## Privacy

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

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

No, we don't save any personal data. Only the password and username are being saved.

**Do you think your technology invades someones privacy? If yes, in what way?**

No.

**Do you think your technology is compliant with prevailing privacy law and can you motivate why?**

The application will have an option to delete the account. Though we won't be able to delete all the data due to the system being built using blockchain.

**Does your technology mitigate privacy and data protection risks/concerns (privacy by design). Please motivate how.**

In the case of the marketplace, the bare minimum of data is being collected.

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

None at all, because there isn't any personal data being saved.

**Did you make any changes to the design of your technology because of the questions about the impact? If yes, please list them here.**

No.

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## Human values

How does the technology affect your human values?

*This category is not applicable for this technology.*

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## Stakeholders

Have you considered all stakeholders?

**What are the main users/targetgroups/stakeholders for your technology?**

**Name of the stakeholder**

Developers

**How is this stakeholder affected?**

These stakeholders are in charge of the development of the software. They are included within every part of the development of the application.

The technological impact on this actor is direct because this actor actively develops the application.

**Did you consult the stakeholder?**

Yes

**Are you going to take this stakeholder into account?**

Yes

**Name of the stakeholder**

Project consultant

**How is this stakeholder affected?**

This stakeholders has given the assignment, can give information and provides guidance throughout the project.

This actor is indirectly impacted by the software, the actor provides guidance but according to requirements does not specifically benefit from the project.

**Did you consult the stakeholder?**

Yes

**Are you going to take this stakeholder into account?**

Yes

**Name of the stakeholder**

Product Owner

**How is this stakeholder affected?**

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This stakeholder is in charge of the project. Choices made throughout the development are this actors responsibility, therefore he is directly impacted by the project.

**Did you consult the stakeholder?**

Yes

**Are you going to take this stakeholder into account?**

Yes

**Name of the stakeholder**

Customers

**How is this stakeholder affected?**

The users of the application. Who are they, what do they want to do and how do they want to achieve things.

Since we also have a clear split between customers who want to be delegates or side chain hosts a split within the customer base based requirements might also be necessary.

The application impacts these actors directly because they will be the ones using the technology.

**Did you consult the stakeholder?**

Yes

**Are you going to take this stakeholder into account?**

Yes

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

**Name of the stakeholder**

Investors

**How is this stakeholder affected?**

This stakeholder will likely not directly come into contact or use the application itself. It will not be impacted by the technology, just if it works or not.

**Did you consult the stakeholder?**

Yes

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Are you going to take this stakeholder into account?

Yes

**Did you make any changes to the design of your technology because of the questions about the impact? If yes, please list them here.**

No



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## Data

Is data in your technology properly used?

**Are you aware of the limitations and subjectivity of data and is this reflected in your technology?**

Yes, we are aware of this. The data available to us is very limited for a reason, being to keep things private.

**How do you organize continuous improvement when it comes to the use of data?**

We do not. By design, the data that we use is not susceptible to privacy issues because all users are anonymized in the blockchain and it is very clear to our users what data is being stored there and that it is publicly available.

**Are the insights we identify with data sustainable over time?**

The nature of our data does not change overtime.

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

We do not collect any data from our users so therefor there is no data to be sold.

**Did you make any changes to the design of your technology because of the questions about the impact? If yes, please list them here.**

No

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## Inclusivity

Is your technology fair for everyone?

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

yes everyone with an internet connection has a fair shot at being participant.

### **Does your technology have a built in bias?**

Yes. We make only one version which our team has envisioned.

### **How do you account for decisions made by automation?**

Block chain.

### **Is everyone benefitting from your technology or only a a small group? Do you see this as a problem? Why/why not?**

It could potentially impact the entire blockchain community which can impact the world. This is not a problem this is a technological revolution which might lead to improvement in the community.

### **Is your team able to create a technology that represents the diversity of our society?**

Our team is a group of students eachone has an unique background and has a strong and critical opinion about product choices.

But the diversity of our team is not that large so it might be hard to create a technology that represents the diversity of our society. But this is not applicable to our product because it has not social aspect to it regarding this aspect.

### **Did you make any changes to the design of your technology because of the questions about the impact? If yes, please list them here.**

No, our product has an impact on society. But not in a direct way yet it is a pioneering product which will inspire a new trend for block chain development.

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## Transparency

Are you transparent about how your technology works?

**(How) do you explain to your users how your technology works?**

Yes, we do. We have made a white paper available on our website where users can read about our technology. Also, our code is opensource and thus available for everyone to read through.

**If your technology makes an (algorithmic) decision, how do you explain to your users how the decision was reached?**

Our tech does not do this.

**Is it possible to file a complaint or ask questions about your technology?**

Currently, this is not a possibility.

**Are you clear about possible negative consequences or shortcomings of your technology?**

Yes, we do warn our users of possible negative consequences of using our software. If a payment is done, there is no way to reverse it for example.

**Did you make any changes to the design of your technology because of the questions about the impact? If yes, please list them here.**

No, we didn't change anything.

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## Sustainability

Is your technology environmentally sustainable?

**Does your technology have a realistic lifespan? Especially in relation to the cost/impact of producing it?**

We do not create a physical product, so this question is not applicable.

**Did you consider the sustainability all possible building blocks for your technology? Also looking at their individual impact?**

We use cloudbased systems for our applications, we do not have much sense on the environmental costs of these systems. We use blockchain technology, but since we do not use proof of work (like Bitcoin) our application will not have much unsustainable impact.

**Does your technology (un)necessarily increase the use of energy and resources?**

Yes, it does but not unnecessarily. Our application has to run and store data, these all cost energy. We try making our application as efficient as possible to reduce system loads and thus energy consumption.

**Did you make any changes to the design of your technology because of the questions about the impact? If yes, please list them here.**

No we did not, our system only uses computer resources and those are provided by our cloud services.

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## Future

Did you consider future impact?

*This category is not applicable for this technology.*