

# Web Application

Web Application for helping shelters to connect with possible adopter. By having this web application it helps both adopter and shelter to easily connect one to another.

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Created on: April 5, 2023 1:00 PM  
Changed on: April 5, 2023 2:50 PM

Context of use: Education  
Level of education: Bachelor

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## Impact on society

What impact is expected from your technology?

### **What is exactly the problem? Is it really a problem? Are you sure?**

To adopt an animal from a shelter, one typically needs to visit each shelter's website. However, this can be inconvenient if the shelter is far from the adopter's location. In such cases, the adopter may need to search for another shelter that is more accessible. The solution to this problem is a web app that allows adopters to access multiple shelters and filter their search by location. By using this app, adopters can easily find shelters near their location and streamline the adoption process.

### **Are you sure that this technology is solving the RIGHT problem?**

Yes, I'm sure. because searching for shelters individually can be time-consuming and frustrating. By consolidating multiple shelters into one platform, the web app streamlines the adoption process and makes it easier for potential adopters to find and compare different shelters. Beside that the location filter function is a critical feature as it solves the problem of distance between the adopter and the shelter. Adopters may have limited transportation options or may not have the time to travel long distances. By allowing adopters to filter their search by location, the web app makes it possible for them to find shelters that are conveniently located near their home or workplace.

### **How is this technology going to solve the problem?**

The web app that consolidates multiple animal shelters into one platform and allows for location-based search filters. By doing so, it streamlines the adoption process, making it easier for potential adopters to find and compare different shelters, and filter their search by location. The characteristics that lead to the solution of the problem include the consolidation of multiple shelters into one platform, the ability to filter searches by location, and the user-friendly interface that simplifies the adoption process. While we cannot be absolutely certain that the technology will work, the characteristics of the web app suggest that it has a high likelihood of success. The consolidation of multiple shelters into one platform and the ability to filter searches by location are features that are likely to make it easier for potential adopters to find and compare different shelters and ultimately adopt an animal. To know if this app is going to work or not is by implementing it, but now I'm still in the process of it and I still don't have the proof of the test. However, the concept of consolidating multiple animal shelters into one platform and allowing for location-based search filters has been successful in other industries and contexts. Therefore, there is reason to believe that it can be successful in the context of animal adoption. The concept of consolidating multiple options into one platform and allowing for location-based search filters is a well-

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established practice in e-commerce and other industries. The theory behind this approach is that it simplifies decision-making and improves the user experience. While we do not know whether the developers of this web app conducted formal research, it is likely that they drew upon these established principles.

Evaluate the outcomes in the future would be a best practice to evaluate the effectiveness of the web app in achieving its goals, such as increasing adoptions and improving the user experience. Evaluating outcomes could involve analyzing data such as the number of adoptions, user feedback, and website traffic.

## **What negative effects do you expect from this technology?**

One potential negative consequence is that individuals may create fake accounts with the intention of scamming the shelter, which could be highly detrimental to the shelter's operations.

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

The web app contributes to a world that many people would like to live in by making the process of animal adoption more streamlined, accessible, and convenient. It has the potential to increase the number of animals that find loving homes, reduce overcrowding in shelters, and improve the overall welfare of animals.

By making it easier for potential adopters to find and compare multiple shelters, the web app could also promote competition among shelters, leading to improved adoption policies and animal care. Additionally, the web app's emphasis on location-based search filters could encourage potential adopters to adopt locally, which would reduce the environmental impact of transportation and strengthen local communities.

## **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.**

Implement a verification process: To reduce the risk of fake accounts and scams, the web app could require users to verify their identity or provide additional information before creating an account or completing an adoption.

Provide clear guidelines and policies: The web app could provide clear guidelines and policies for adoption procedures, including information on what to expect during the adoption process, required documentation, and adoption fees.

Add a user rating system: To encourage shelters to provide the best possible adoption experience, the web app could include a user rating system, where

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adopters can rate their experience and provide feedback on the shelter and the adoption process.

**Improve search filters:** The web app could improve its search filters to make it easier for users to find the right animal for their lifestyle and preferences. This could include filters for age, breed, size, and temperament.

**Address privacy concerns:** The web app could prioritize data privacy and security to address potential privacy concerns, such as data breaches or misuse of personal information. This could include implementing strong data encryption, regular security audits, and clear privacy policies.

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## Hateful and criminal actors

What can bad actors do with your technology?

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

The web app could be used to facilitate illegal activities such as animal trafficking or smuggling by connecting potential buyers with sellers. It could also be used to create fake adoption agreements to cover up illegal activities. The web app could also be used to create a false record of an animal's adoption, which could be used to avoid legal consequences related to animal ownership. For example, someone who illegally acquired an animal could use the web app to create a record of adoption to avoid being caught by authorities.

### **Can fakers, thieves or scammers abuse the technology?**

Yes, there is a possibility that fakers, thieves, or scammers could abuse the web app. They could create fake accounts and use the platform to scam unsuspecting adopters or shelters. For example, they could create fake adoption agreements to cover up illegal activities related to animal ownership. They could also use the platform to gather personal information from adopters or shelters for fraudulent purposes.

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

Yes, there is a possibility that the web app could be used to discriminate against certain ethnic groups or social classes. For example, if the web app includes filters for location or other demographic information, it could potentially be used to exclude certain groups from adopting animals based on their race, ethnicity, or socioeconomic status.

### **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.**

There is a possibility that bad actors could use the web app to pit certain groups against each other based on ethnicity, social class, political affiliation, or religion. They could use the platform to spread misinformation or propaganda that is aimed at inflaming tensions between different groups. For example, they could create fake adoption profiles or fake adoption agreements that include discriminatory or divisive language.

### **How could bad actors use this technology to subvert or attack the truth?**

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Bad actors could potentially use the web app to subvert or attack the truth by creating fake adoption profiles or adoption agreements that contain false or misleading information. They could use the platform to spread misinformation or propaganda aimed at misleading adopters or shelters. For example, they could create fake adoption agreements that include false information about the animal's health or behavior, or create fake adoption profiles that misrepresent the adopter's true intentions.

**Now that you have thought hard about how bad actors can impact this technology, what improvements would you like to make? List them below.**

- Implementing policies and guidelines that prohibit hate speech or discriminatory content on the platform.
- Providing training and education to users on the importance of inclusivity and non-discrimination.
- Implementing measures to prevent the creation of fake accounts, such as requiring users to provide proof of identity before using the platform.
- Verifying adoption profiles and agreements before they can be posted on the platform.
- Providing users with clear procedures for reporting false or misleading information, and investigating and addressing any reports promptly.
- Conducting regular audits and reviews of the platform to identify and address any potential issues.
- Providing adopters and shelters with guidance on how to identify and report instances of false or misleading information on the platform.
- Encouraging open communication and collaboration between adopters and shelters to promote transparency and trust on the platform.

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## Privacy

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

### **Does the technology register personal data? If yes, what personal data?**

Because the animals' lives are at stake, we take registration verification seriously. We require some sensitive information, like a government ID and a photo of the user holding it, to ensure that we can trust the people using our app. We may also ask for some additional personal details to help us reach out to users if there are any concerns about the animals or shelters.

### **Do you think the technology invades the privacy of the stakeholders? If yes, in what way?**

The web app may potentially collect personal information from its users, such as their names, email addresses, and sensitive data like government-issued IDs. This information is necessary to ensure the legitimacy of the adopters and shelters using the platform, but it could also raise concerns about privacy and security. To address these concerns, the web app should implement measures to safeguard the data it collects, such as using secure storage and encryption methods. The app should also provide clear information to users about how their data will be used and who will have access to it.

### **Is the technology is compliant with prevailing privacy and data protection law? Can you indicate why?**

if the web app collects personal data from individuals, it must comply with the prevailing privacy and data protection laws in the jurisdiction where the app is operating and where its users are located. To ensure compliance, the web app should implement appropriate privacy and data protection policies, such as obtaining user consent for data collection and use, properly securing data storage, and providing users with the ability to access, modify, and delete their personal data. Additionally, the app should regularly review and update its privacy policies and practices to ensure ongoing compliance with changing legal and regulatory requirements.

### **Does the technology mitigate privacy and data protection risks/concerns (privacy by design)? Please indicate how.**

By incorporating privacy and security measures into the design process, the app can minimize potential privacy and data protection risks to its stakeholders.

- Minimizing data collection: Collecting only the data that is necessary to achieve the app's purpose, and minimizing the amount of data stored.

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- Obtaining informed consent: Providing clear and concise information to users about the data collected and how it will be used, and obtaining explicit consent for the data collection.
  - Providing access to data: Giving users access to their personal data, and the ability to correct or delete it.
  - Ensuring data security: Implementing appropriate security measures, such as encryption, to protect user data from unauthorized access.
  - Regularly reviewing privacy practices: Continuously evaluating the app's privacy practices to ensure they remain up-to-date and effective.
- By incorporating these principles into the design of the web app, the app can reduce privacy and data protection risks and concerns for its stakeholders.

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

The collection of personal data can have a significant impact on the future, both positive and negative. On the positive side, personal data can be used to improve and personalize services, products, and experiences for individuals. It can also be used for research and development purposes, leading to the creation of new technologies and advancements in various fields.

However, there are also potential negative impacts of the collection of personal data. If personal data is not properly secured, it can be accessed and misused by unauthorized parties, leading to identity theft, fraud, and other forms of cybercrime. Personal data can also be used to create targeted advertisements or influence political opinions, leading to privacy violations and potential manipulation.

In addition, the collection of personal data can lead to issues of discrimination, as algorithms and machine learning models can be trained on biased data, leading to discriminatory outcomes. This can perpetuate societal inequalities and further marginalize vulnerable populations.

Therefore, it is important for organizations to consider the potential impact of the collection of personal data and to implement appropriate measures to protect individuals' privacy and prevent misuse of their personal information.

## **Now that you have thought hard about privacy and data protection, what improvements would you like to make? List them below.**

- Implement strong encryption protocols for all personal data collected, transmitted and stored by the app to ensure that data is secure and not vulnerable to unauthorized access.
- Implement privacy-by-design principles to ensure that privacy and data protection are embedded into the design of the app, rather than added as an afterthought.
- Obtain explicit consent from users before collecting their personal data, and provide them with clear and concise information about how their data will be used and who will have access to it.
- Allow users to have control over their personal data by providing them with

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the ability to access, modify, and delete their data at any time.

- Regularly conduct privacy impact assessments and security audits to identify and address potential risks and vulnerabilities.
- Provide regular training and education to staff and stakeholders on privacy and data protection best practices, and ensure that everyone involved in the app's development and management understands their roles and responsibilities in protecting user privacy.
- Comply with prevailing privacy and data protection laws and regulations, and regularly review and update policies and procedures to ensure ongoing compliance.

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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?

*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**

adopter

**How is this stakeholder affected?**

-

**Did you consult the stakeholder?**

No

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

No

**Name of the stakeholder**

Shelter

**How is this stakeholder affected?**

-

**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?**

fundamental shortcomings and pitfalls of data, such as bias, errors, and misinterpretations, are important considerations in developing any data-driven system or application. It is essential to thoroughly understand the data being used, its limitations, and potential biases to prevent negative impacts on users and ensure fair and ethical use of the data. Incorporating measures such as regular data audits and testing can help to identify and address any issues that may arise.

### **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.**

*This question has not been answered yet.*

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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?

no, my application will be neutral. All the decision will be make by the user it self.

## 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.

*This question has not been answered yet.*

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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?**

Certainly, during the development of this application, I will empathize with the end-users to comprehend their perspective towards the application. Additionally, before the final release of the project, I will conduct user testing to determine if the application is user-friendly and comprehensible.

### **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.**

*This question has not been answered yet.*

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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?**

To minimize the energy use of a web app, several measures can be taken such as optimizing the code to reduce its size, using efficient algorithms, optimizing images and videos, enabling caching, reducing the number of HTTP requests, and using a content delivery network (CDN) to distribute static files. Additionally, the use of renewable energy sources to power the server can significantly reduce the environmental impact of the web app.

### **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.**

*This question has not been answered yet.*

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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?**

On the positive side, the web app could become more widely adopted and successful, helping more animals to find homes and increasing awareness of animal welfare issues. It could also be further developed to incorporate new features and technologies that enhance its usefulness and ease of use for stakeholders.

On the negative side, the web app could be subject to data breaches or cyber attacks, which could compromise sensitive user information and damage the reputation of the app. It could also be abused by bad actors, such as scammers or animal abusers, leading to negative consequences for animals and shelters. Additionally, changes in technology or societal norms could render the web app obsolete or less effective over time.

### **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.**

*This question has not been answered yet.*