NAME: Smart Asset Tracking & Monitoring

TICT

DATE: September 6, 2024 8:14 AM

DESCRIPTION OF TECHNOLOGY

AssetNXT is a web conceptual solution which tracks and monitor data based on smart environment sensors. The goal of the application is to create a web asset tracking system.

HUMAN VALUES

Location tracking can, without question, invaded the user's privacy by going on a higher levels of conflict. Moreover, the person who knows where the users are should not make assumptions about what they are doing.

TRANSPARENCY

Our application uses commonly used ux techniques. In the repository there is a Readme file which describes the solutions in details, also there is well written manual for usage.

IMPACT ON SOCIETY

Our solution aim to to give an access to end-users to the insides information for the the status conditions of multiple mobile assets based on sensor connected to your phone.

STAKEHOLDERS

- Users/ Managers monitoring the app
- Asset delivery drivers

SUSTAINABILITY

AssetNXT relies on real-time device data, which means that a lot of information needs to be exchanged by multiple devices. In many situations, the device speed using your mobile network can consume a lot of the battery of the phone. Battery life is extremely important for smartphones, as you will not be able to connect to the system. It will definitely sacrifice the main idea of the solution.

HATEFUL AND CRIMINAL ACTORS

While having an effective vehicle tracking system is a must for our clients, it's important to respect drivers privacy, and abide by the laws that dictate what you can and can't track. The drivers should:
- know when they are being tracked
- have given their consent to being tracked
- only be track during their working hours

DATA

Collecting data through the use of a mobile phone can greatly speed up the data collection process. However, if the sensors which are connected with bluetooth are 10 meters away from the device, the system can't "cope" with it, so we should make the users aware of its limitations.

FUTURE

Real-time tracking will bring a huge impact to the more and more companies. By using such a system in a substantial facility, the solution can improve the company processes in many ways - from keeping the manager aware of the the location of the most valuable involved assets to the improvement of the organization of the corporation. At this point, its becoming clear that real-time tracking will be a common tool in the modern business.

PRIVACY

Only collects the data that user needs to monitor for business purposes. (GPS, MAC address and device ID)

INCLUSIVITY

The idea of the AssetNXT is that it is biased. We have only one version of the website for all users, multiple features, but one environment. It is scalable and well desinged.

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HUMAN VALUES

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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