QUICKSCAN - CANVAS Shift Management App for Students and Managers

NAME: Shift Management App for Students and Managers
DATE: July 5, 2025 6:57 PM
DESCRIPTION OF TECHNOLOGY
Shift Management App" is a mobile platform that simplifies work scheduling for managers and students. Students can update their availability in real-time and receive shift notifications, while managers have a dashboard to assign shifts, manage cancellations, and provide feedback. This app automates manual processes, reduces errors, and improves communication for small organizations. Testing will validate i…

HUMAN VALUES

The app empowers users by providing a clear and easy way to manage their schedules. It enhances trust and professionalism between managers and employees. However, if not designed inclusively, it might create frustration for users who struggle with technology.

TRANSPARENCY

The app includes an onboarding process to explain its features and objectives. The business model is straightforward: the app is provided as a subscription service for small businesses, with no hidden fees.

IMPACT ON SOCIETY

The problem lies in inefficient and manual shift scheduling for small businesses. Currently, managers spend significant time collecting availability from employees and manually assigning shifts, which is error-prone and inflexible. This causes delays and miscommunication, particularly for students balancing work and studies. Automating this process reduces workload, minimizes errors, and saves time for both managers and employees.

STAKEHOLDERS

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SUSTAINABILITY

The app is designed to be lightweight, reducing energy consumption on mobile devices. Backend systems are optimized to minimize server resource usage, ensuring energy-efficient operations.

HATEFUL AND CRIMINAL ACTORS

The app could potentially be misused if sensitive user data (like availability or working hours) is accessed without permission. For example, unauthorized access might lead to privacy violations or unfair practices. Strict authentication, encryption, and role-based access controls mitigate this risk.

DATA

Data collection in this app is minimal and targeted. Awareness of potential biases, such as incomplete availability data or miscommunication about shift changes, has been integrated into the app design. Alerts and confirmations ensure accuracy.

FUTURE

If widely adopted, the app could redefine work scheduling norms, fostering transparency and flexibility. However, it could also lead to overreliance on automation, potentially reducing human oversight in decision-making.

PRIVACY

Yes, the app registers personal data such as names, email addresses, and availability schedules. This information is stored securely and used solely for scheduling purposes.

INCLUSIVITY

The app might unintentionally favor users with better technological skills, such as tech-savvy students. To address this, the app will be designed with a simple and accessible user interface and provide training or guides for first-time users.

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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.…