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Abstract:

We must develop a fully functional, network-aware application that balances technical, physical, and user needs while being cost-effective, durable, and easy to maintain, all while gaining diverse team perspectives to ensure it effectively addresses real user problems

Problem Statement:

We must develop a fully functional, network-aware application that balances technical, physical, and user needs while being cost-effective, durable, and easy to maintain, all while gaining diverse team perspectives to ensure it effectively addresses real user problems.

Briefing:

Throughout the development of our product there are many aspects we will focus on, including technical, physical, user, and final needs. These needs will determine how our product functions, looks and feels.

Technical Needs:

The most important aspect is the technical needs. These needs will determine whether and how our product will work. We need a fully functional, viable, and network-aware application that operates on Shabodis' net-aware programmable platform. The application should be a cloud solution with a minimum of two APIs, utilising private networks for SIM and RZA within a sandbox environment, including Wi-Fi and 5G. The software must be upgradable, support interaction, and enable the creation of microservices. We need a display feature for demonstrations conducted by senior employees.

Physical Needs:

Next are the physical needs. The product must be durable and provide a utilitarian solution that is easy to create, maintain, and is practical in functionality without compromising safety or usability. Users need an interactive, hands-free experience that enhances usability and supports them in their daily tasks.

Customer Needs:
Additionally, we can include the customer needs. Since the customer is the one creating and selling the product, these needs are extremely important. The company needs a solution that is easy to create and maintain while being cost-effective to produce.

Team Needs:

Finally, we can include our needs. These are things we need to do and things we need to understand. We need to ensure that our system is fully functional and ready to deliver unique experiences that effectively address real user problems. To achieve this, it's essential to gain diverse perspectives from our team, which will enable us to showcase applications with specific capabilities. Additionally, we must deepen our understanding of APIs and how to utilise them effectively. It is crucial to explore how we can solve the underlying problems and leverage the network's potential. Understanding the network's purpose will guide us in translating our ideas into actionable solutions within this framework.

Benchmarking:

- Vuzix Shield: A representation of the reality inside the device, showcasing depth perception capabilities.
- Snaps Fifth Generation Spectacles: The first model featuring clear lenses (Karissa Bell for Engadget).
- Additional resources and reviews from sites like Medium and comparisons with other smart glasses brands.

Figure 1.
Vuzix Shield

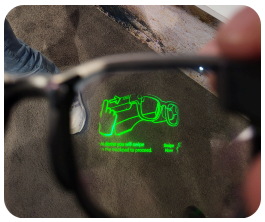

Figure 2.
Snaps Fifth Generation Spectacles

References

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