

SYSTEM DESIGN PLANING FOR FARM-TO-TABLE FARM PRODUCE



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Abstract

In the past few years, the dietary patterns of children and adolescents in the United States have faced growing scrutiny because of their potential effects on health outcomes. A specific area of concern revolves around the intake of elevated levels of sodium, which has been correlated with various blood-related issues in children. While sodium is an essential electrolyte crucial for bodily functions, its excessive consumption, often driven by the intake of processed foods, has been linked to adverse health consequences.

Background

This research poster highlights the intricate correlation between parents' hectic schedules and the heightened sodium intake observed in children in the United States, attributed to their regular consumption of processed foods. By scrutinizing prevailing dietary patterns, exploring the physiological implications of elevated sodium levels, and investigating potential long-term consequences, this study aims to unveil a systematic approach. This approach, rooted in Human-Centered Design and strategic thinking, provides valuable insights into the pressing need for comprehensive strategies to address the escalating health concern within busy families.

A plate filled with fruits, vegetables, quality protein, and other whole foods allows for colorful, versatile, and healthful meals. While fast food is convenient and tasty, it often comes with drawbacks such as high calorie, fat, and sodium content, which can have adverse health effects when consumed in excessive amounts.

Goals

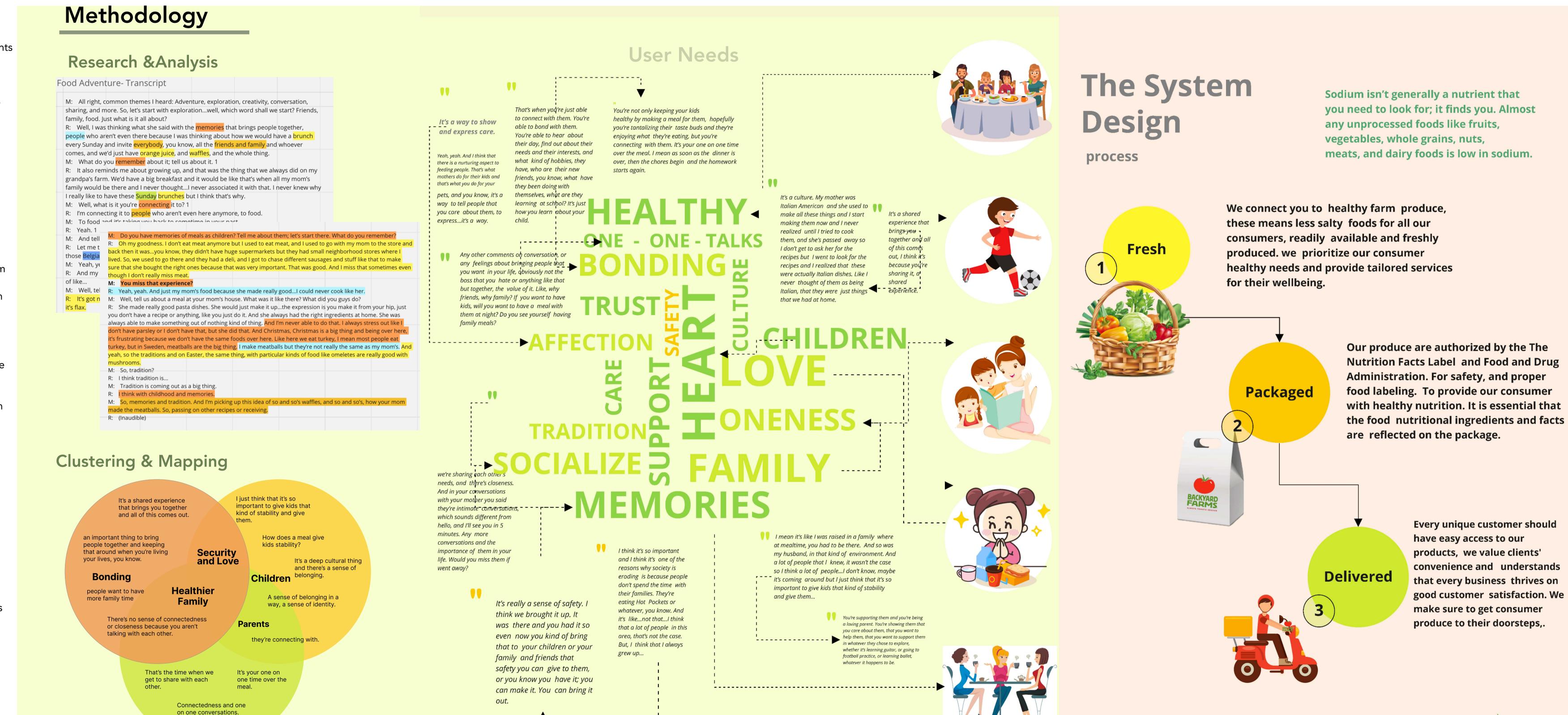
Develop a system that can facilitate the accessibility of healthy and farm fresh farm produce for busy parents to help them control the intake of processed food that are high in sodium and to improve family wellbeing

Who is involved

- Barkyard Farms is an organic local farm that specializes in the production and distribution of fresh tomatoes all year round
- Parents living in metropolitan cities who run very busy schedules
- Families with more than one child that prioritize healthy farm produce

Key words:

human-centered design, design system, strategic design, food equity, family, child healthcare, packaging, user research, farming, packaging, HCD, UX design



Conclusion

In summary, achieving an effective and practical access to farm produce necessitates a comprehensive approach, encompassing the careful consideration of functional requirements and inclusive accessibility considerations. The amalgamation of these elements is imperative for the success of well-designed and efficient systems.

Future Directions:

Subsequent research endeavors will delve into comprehending the specific needs and preferences of the current target audience. Each phase of the construction process will center on optimizing the device's efficiency and usability. I intend to conduct multiple contextual inquiry sessions with key stakeholders to gain insights into their perspectives, gathering pertinent information to formulate strategies that will inform the development of an effective system design. Additionally, the focus will extend to prototype ideation, prioritizing simplicity for seamless access and usage.

This was presented in the Design for strategic communication design class of over 15 members at the IIT Institute of Design in Fall 2021

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