

User-Centered Design of a Texas WIC ChatBot: Formative Investigation

Abstract

Introduction

- The Special Supplemental Nutrition Program for Women, Infants, and Children (WIC) serves people at nutritional risk, including:
 - Low income pregnant, postpartum, and breastfeeding women
 - Children from infancy to the age of 5
- WIC provides:
 - Vouchers for healthful foods
 - Health care referrals
 - Nutrition education counseling
- Enrollment has been declining.
- Most WIC participants use smartphones, and many choose to take their nutrition education classes from WIC online.
- While there is information regarding eligibility on the Texas WIC website, **there is currently no way for potential participants to ask questions about eligibility and make appointments.**
- We collaborated with Texas WIC to obtain USDA funding to investigate developing a ChatBot to meet this gap.

Objective

- To develop a WIC ChatBot prototype based on input from stakeholders and potential users.

Methods

- Compliant with the university IRB.
- Employ User-centered Design to the process of developing the WIC ChatBot prototype (Figure 1).
- The first step, reported here, involves concept generation based on results of online group interviews and focus groups with:
 - Stakeholders in Texas WIC and cooperating states and territories: 1 focus group; 2 group interviews; n=7
 - Texas WIC clinic directors: 1 group interview; 3 focus groups; n=13
 - Texas WIC staff: 1 group interview; 3 focus groups; n=12
- Participants were recruited via email and phone calls.

References

- Designing a WIC App to Improve Health Behaviors: A Latent Class Analysis
- User-centered Design of a Texas WIC App: A Focus Group Investigation

Figure 1. User-centered Design of ChatBot

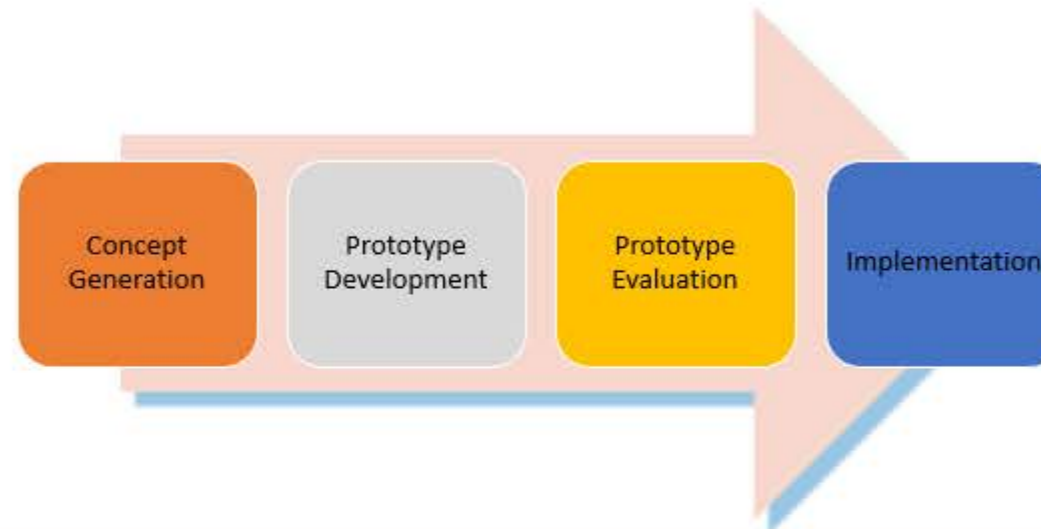


Figure 2. Themes and Quotes about the ChatBot

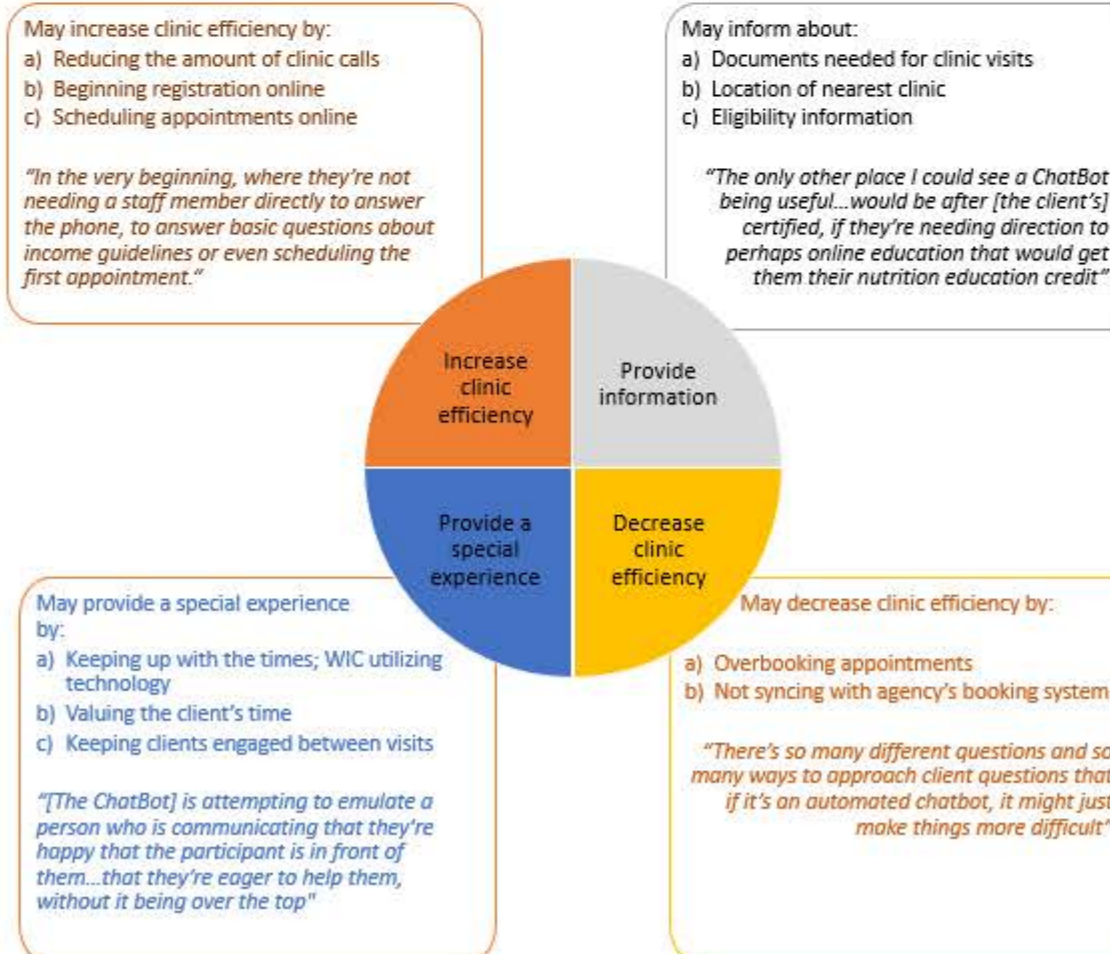
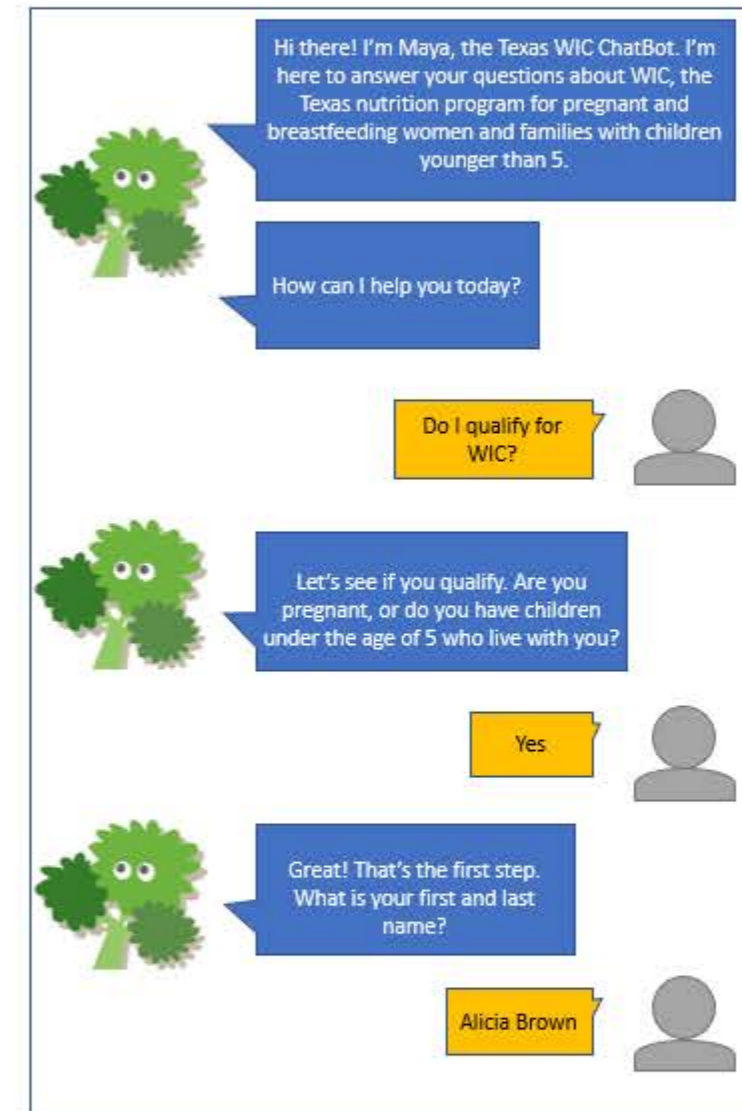


Figure 3. ChatBot Personality



What We Know So Far

- Participants were enthusiastic.
- A WIC ChatBot was described as a facilitator to increase clinic efficiency. Participants were excited about the potential ability to direct clients to information, reduce clinic calls, and help with the new client registration.
- A ChatBot may help provide information to clients such as clinic information, basic nutrition education, and a description of WIC client benefit package.
- Participants were most concerned about areas that the ChatBot would create more work for WIC staff
- Persona should be friendly and personable but also consider age, region, language, and stress level of individuals.