
Health Care Clinic

— Sarah Newman, Ike Conner, —
Tyler, Evan, Destiny Dancy

Problem

Our problem is that people in rural Kenyan communities often have very limited access to health care and health information. This is due to many reasons which include money, digital literacy, physical distance to healthcare providers and transportation

Our design question is as follows, How can we make healthcare and health information more accessible in rural Kenyan communities?

Our ultimate goal is to increase healthcare visits and treatment, and improve access to information for rural communities.

Key User Research Findings

Health care access remains a significant challenge for rural communities in Kenya due to long travel distances, transportation costs, and limited local health infrastructure.

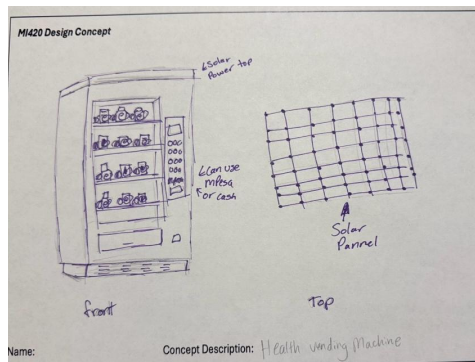
Research indicates that community members prioritize accessible, preventative services, particularly maternal care, vaccinations, and early disease screening.

Mobile health clinics address these needs by delivering essential services directly to underserved populations, reducing geographic and financial barriers to care.

Programs such as the Mozambique Initiative demonstrate that bringing healthcare into communities increases utilization of primary and preventative services while improving early diagnosis and continuity of care.

Early Ideas and Prototypes

First sketch prototype of the vending machine



First low-fidelity prototype of the vending machine



First sketch prototype of the mobile clinic



First low-fidelity prototype of the mobile clinic



Chosen Concepts

After discussing with our prototypes with our Kenyan colleagues, we have decided to merge our vending machine concept and our mobile clinic concept

Our idea was to have the vending machine on the side of the clinic where people can buy medicine and supplies after consulting with doctors at the clinic. There will also be informational posters on the clinic about common symptoms of illnesses and information regarding medicine offered in the vending machine

Final Prototype Direction

Here are some AI generated photos on what the clinic could look like as well as some informational posters that could go on the clinic



WELCOME TO YOUR MOBILE HEALTH CLINIC

— Bringing care closer to you. —

We are here to support your health and well-being:

- ✓ Basic Medical Check-Ups
- ✓ Treatment for Common Illnesses
- ✓ Health Education & Prevention
- ✓ Access to Essential Medicines

Our Goal: Easy, Accessible, Affordable Healthcare for Everyone.

You don't need to travel far — We come to you!

— Ask Questions • Get Help • Stay Healthy —

COMMON ILLNESSES & HOW TO TREAT THEM

— Know the Symptoms & Treatments —

- Malaria**
Fever, Chills, Headache
Take Antimalarial Medication
- Diarrhea**
Frequent Loose Stools, Dehydration
Drink ORS, Clean Water
- Respiratory Infections**
Cough, Sore Throat, Fever
Rest & Basic Medication
- Skin Infections**
Rashes, Redness, Itching
Use Medicated Creams

IMPORTANT: If symptoms are severe, visit the clinic!

- Wash Hands
- Drink Safe Water
- Use Mosquito Nets Keep Clean

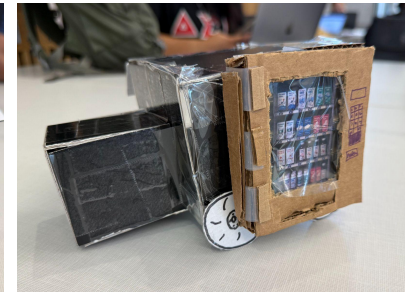
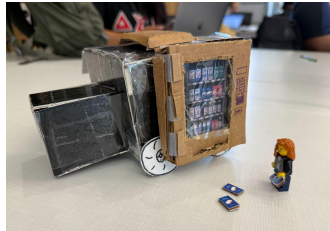
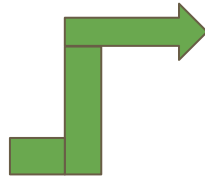
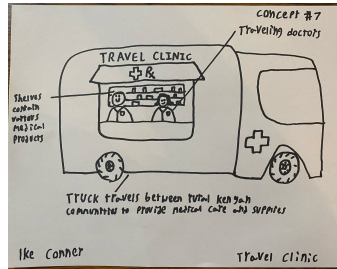
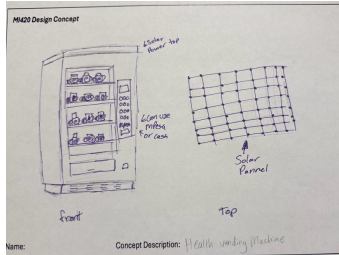
MEDICAL SUPPLY VENDING MACHINE

Health Essentials Available Here!

- Pain Relief Tablets (Reduces Pain & Fever) **50 KES**
- Oral Rehydration Salts (ORS) (For Diarrhea & Dehydration) **30 KES**
- Mosquito Nets (Prevents Malaria) **300 KES**
- Antiseptic Cream (Treats Cuts & Infections) **120 KES**
- Soap (Hygiene Bar) (For Handwashing) **40 KES**
- Sanitary Pads (Menstrual Hygiene) **100 KES**
- Bandages & First Aid Kit (For Minor Injuries) **150 KES**
- Cough Syrup (Relieves Cough) **200 KES**

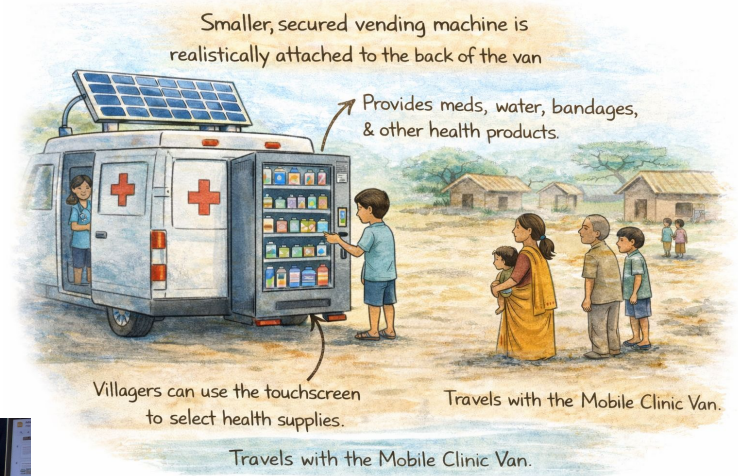
Need Assistance? ❤️ Strong Community

Phases of the prototype



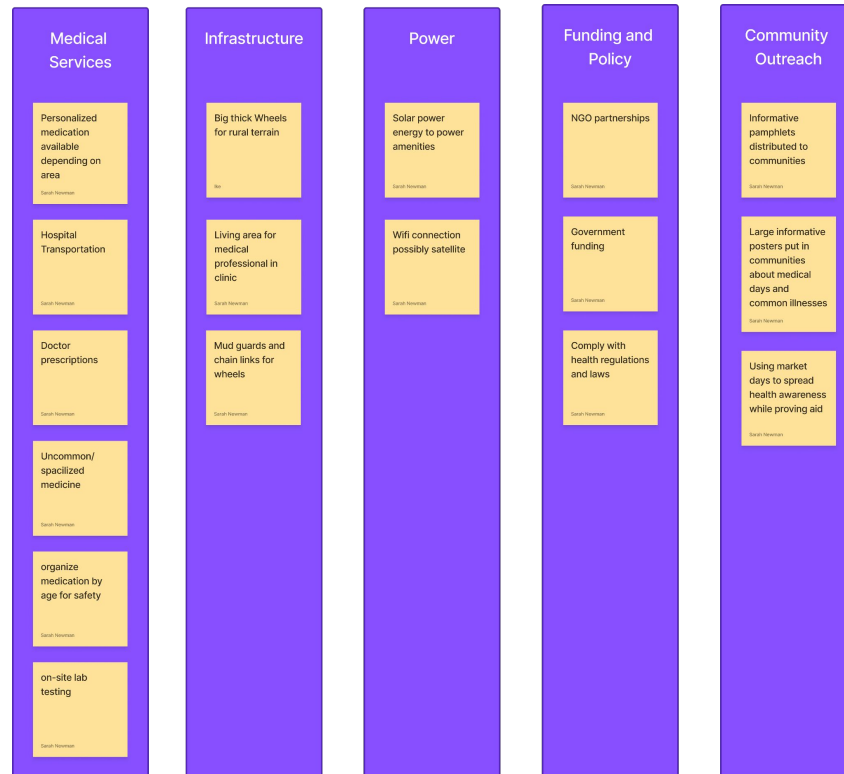
Higher-Fidelity Prototype

This is our physical higher-fidelity prototype with the vending machine attached to the clinic as well as the posters on the sides. The image to the right is another visualization of the clinic being used



Evaluation Insights

After talking to 7 of our Kenyan Colleagues we have been made aware of these ideas



Expected Impact

Short term impacts that we foresee in rural communities

- Increased access to essential medicines and supplies
- Vastly reduced travel times for routine care and supplies
- Bolstering of health literacy through posters and onsite personnel

Long-term impacts

- Full scale coverage of the network across the entire country
- Provide a greater depth of services with specialized Matatus
- Partnerships with the Red Cross and other NGOs for foreign support

Next Steps/Conclusion

Summary

- Bringing healthcare directly to rural Kenyan communities reduces major barriers such as distance, cost, and limited local resources
- Feedback from our Kenyan colleges reinforced the value that such a service could bring to underserved communities.
- Our design was an amalgamation of our most viable ideas as a group, into one concept

Next Steps

- Secure governmental approval for such a concept alongside trained personnel
- Pilot the clinic in one local community to test feasibility
- Iterate on feedback received across the concept