

A requirements and design analysis for an interactive online donation interface

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Introduction

ecoREHAB is a nonprofit organization in Muncie, Indiana, that specializes in environmentally-friendly, economically-sound rehabilitation of houses. The organization started as an immersive learning project at Ball State University in 2009, as a collaboration between the City of Muncie Department of Community Development and the Ball State College of Architecture and Planning. ecoREHAB was successful enough to become an independent non-profit, although it maintains partnerships with the university. Their mission statement is given below.

Our Mission is to provide leadership in ecologically sound and sustainable rehabilitation of existing housing and neighborhoods. ecoREHAB of Muncie, Inc. will engage in activities that include: 1) acquisition and ecologically sustainable rehabilitation of affordable housing; 2) provide resources to aid homeowners and in rehabilitation of existing housing following sustainable design, material and system strategies; and 3) other activities relative to housing that help the community to achieve the triple-bottom-line of economic prosperity, environmental protection, and social equity.

In Spring 2017, Kate Elliott led an undergraduate team of journalism, marketing, and public relations students in a new immersive learning partnership with ecoREHAB, with the goal of revising the organization's branding and Web presence. ecoREHAB has been primarily grant-funded, and one of the goals for the revised Web site was to accept donations from the community, including local residents and university alumni.

As a part of Dr. Paul Gestwicki's research and design course (CS 691) at Ball State University, a collaborative effort was established with Kate's class. Their main initiative was on the re-branding process for ecoREHAB while the donation system for the organization was the primary focus for our CS 691 course. The aim of this project was to design and develop an interactive donation system for ecoREHAB, with the main learning goal from the interaction being given below.

Houses can be rehabbed in an environmentally-friendly way, although it takes resources (time, money, knowledge).

This report presents the design process used by our class for the donation system.

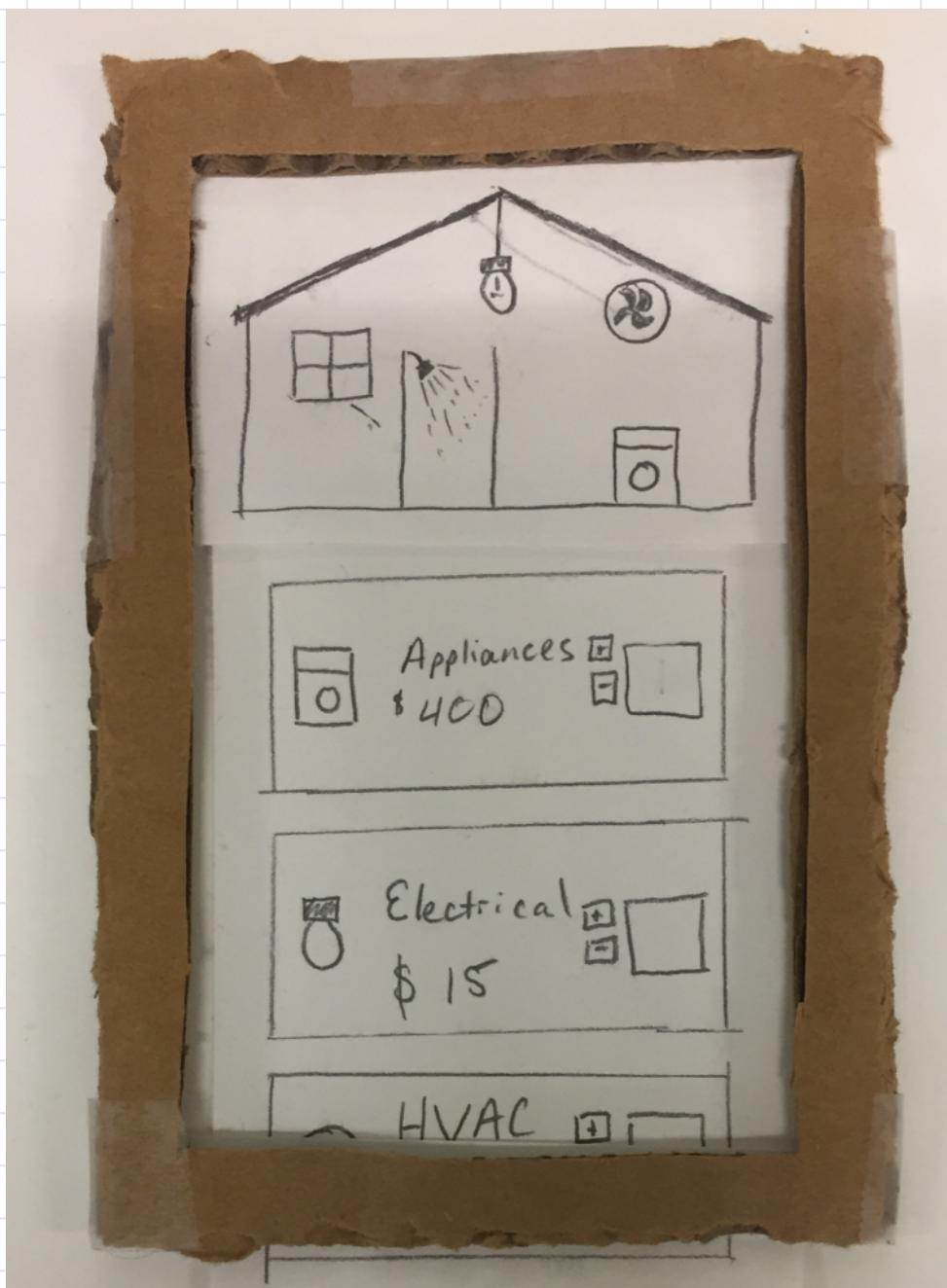
Design

Conclusions and Future Work

Appendix

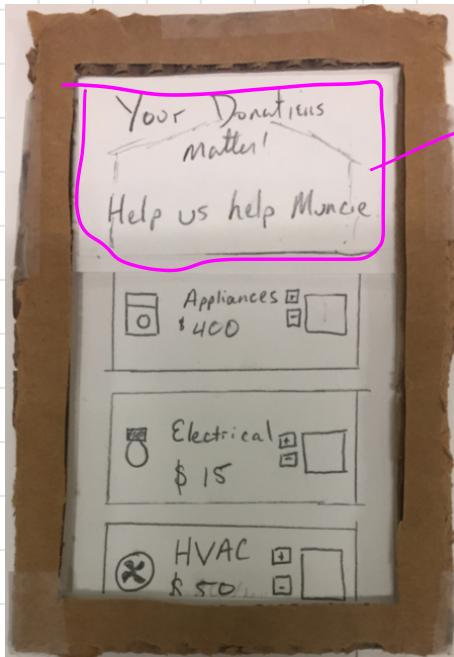
¹Corresponding author

EcoRehab donate page design -paper prototype

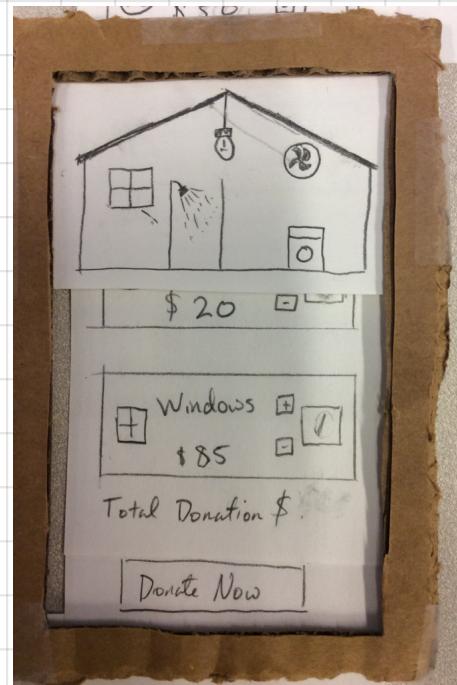
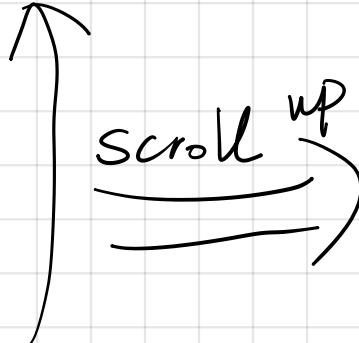
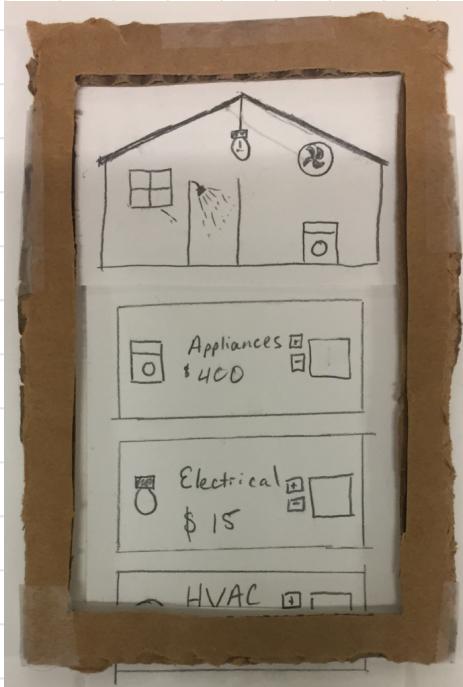


Donate Page on Mobile Device

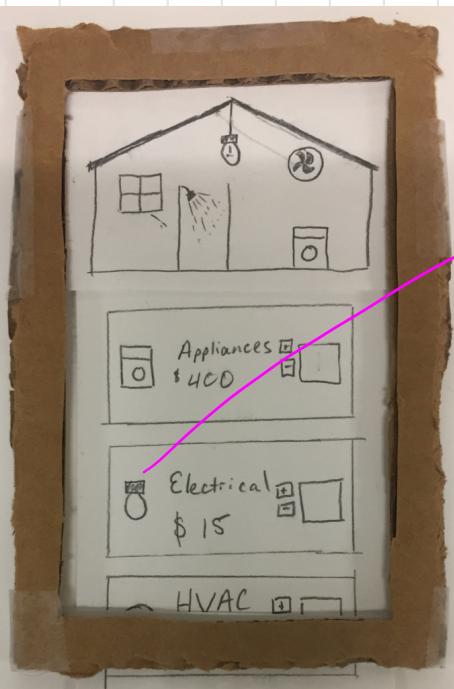
Starts here



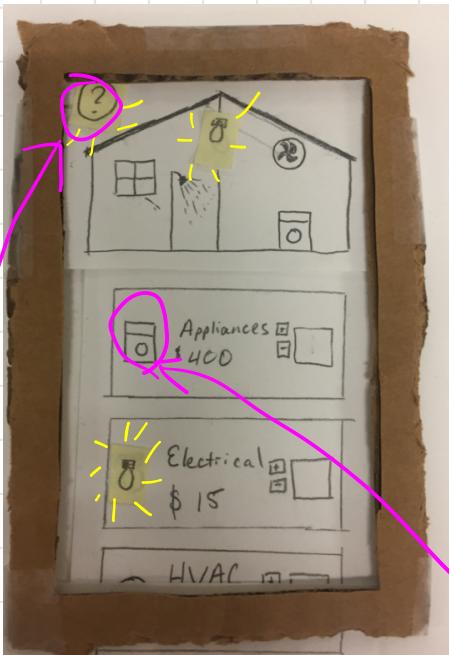
This window is designed to show
for 3 seconds then move up and
go away



View info

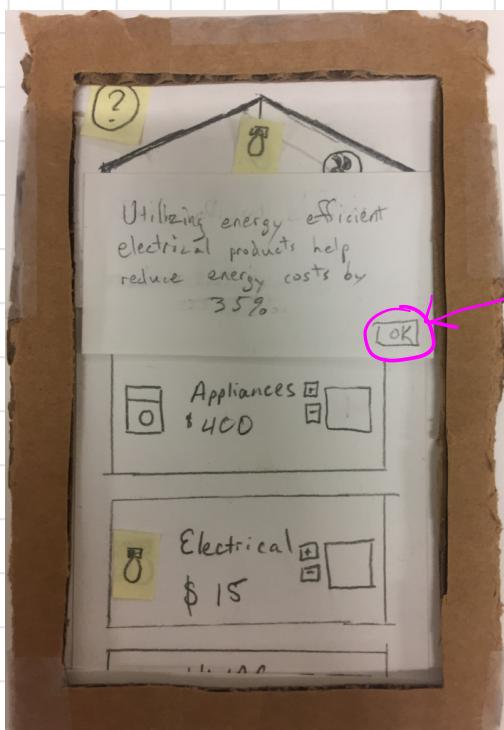


click on this light bulb Icon



The selected
category
Lights up

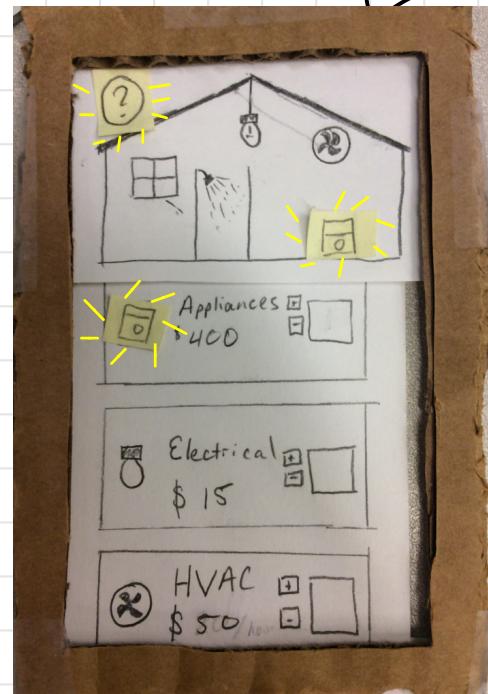
click into button



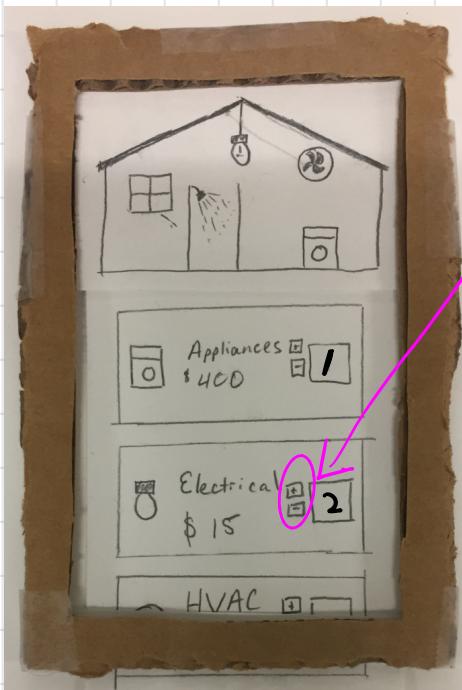
click OK, go back



click on another
category.

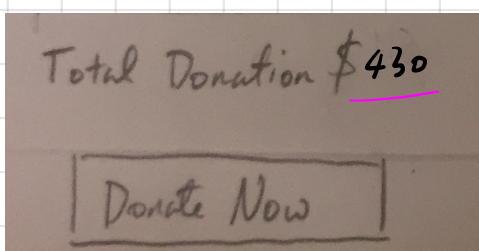
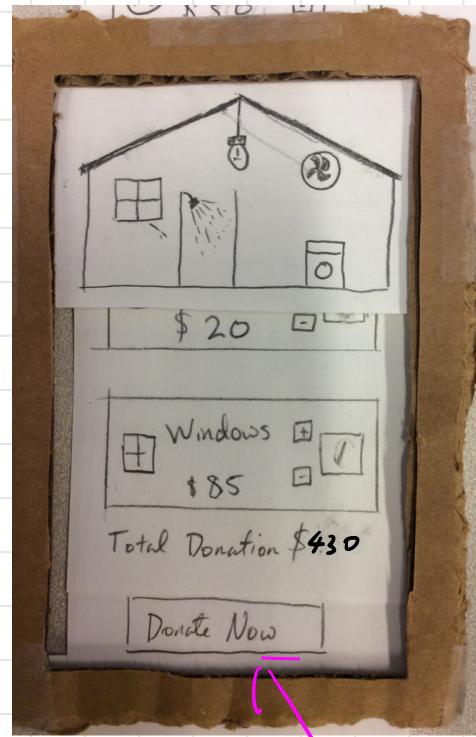


Select donate amount



Use $+$ and $-$
To select donate amount

scroll up



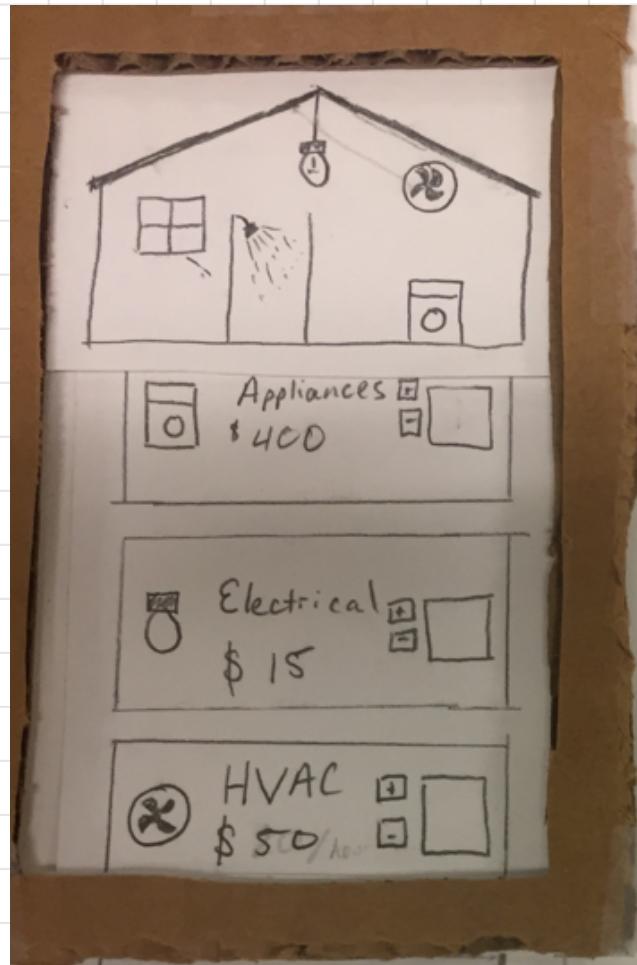
Total will
be updated
in background.

click



Donation
Finished!
Thank you!

All components we have



Total Donation \$

Donate Now

Your Donations
matter!
Help us help Muncie.

Utilizing energy efficient electrical products help reduce energy costs by 35%.

[OK]

High-efficiency plumbing can help save on water, energy, and money

[OK]

Efficient heating/cooling systems reduce living cost by 20%

[OK]

Energy star roofing products can help reduce both heating and cooling costs by 10 - 15 %

[OK]

Energy efficient windows can reduce overall energy costs of a house by 30%

[OK]

All components we have

