Low-fi Prototyping & Pilot Usability Testing

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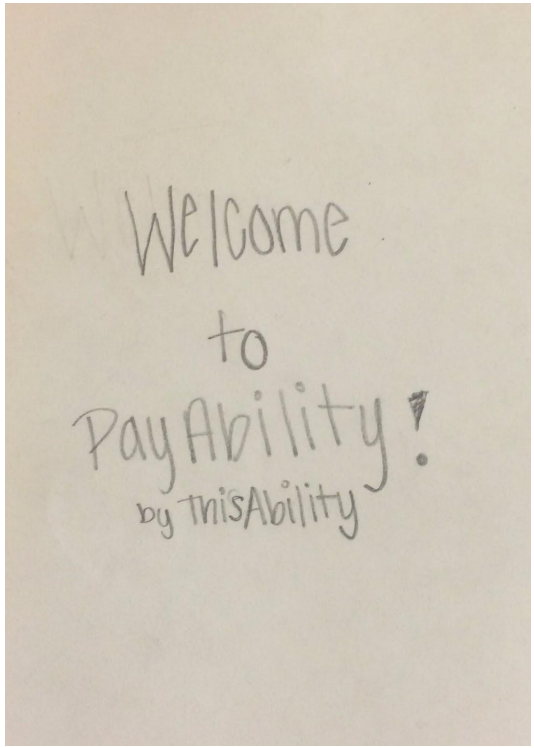
Team: ThisAbility

Overview

- Mission Statement
- Lo-Fi Prototype and Testing
- Changes



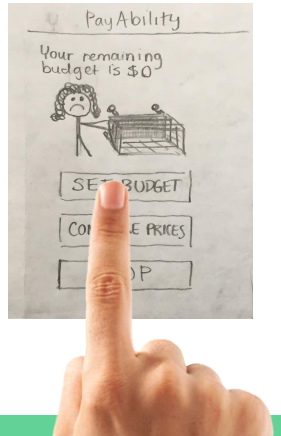
Mission Statement:

To empower people with math learning disabilities to compare prices, stay within budget and pay with exact change.

Selected Interface & Rationale

Interface:

- Mobile phone app
- Touch input
- Barcode scanning with camera

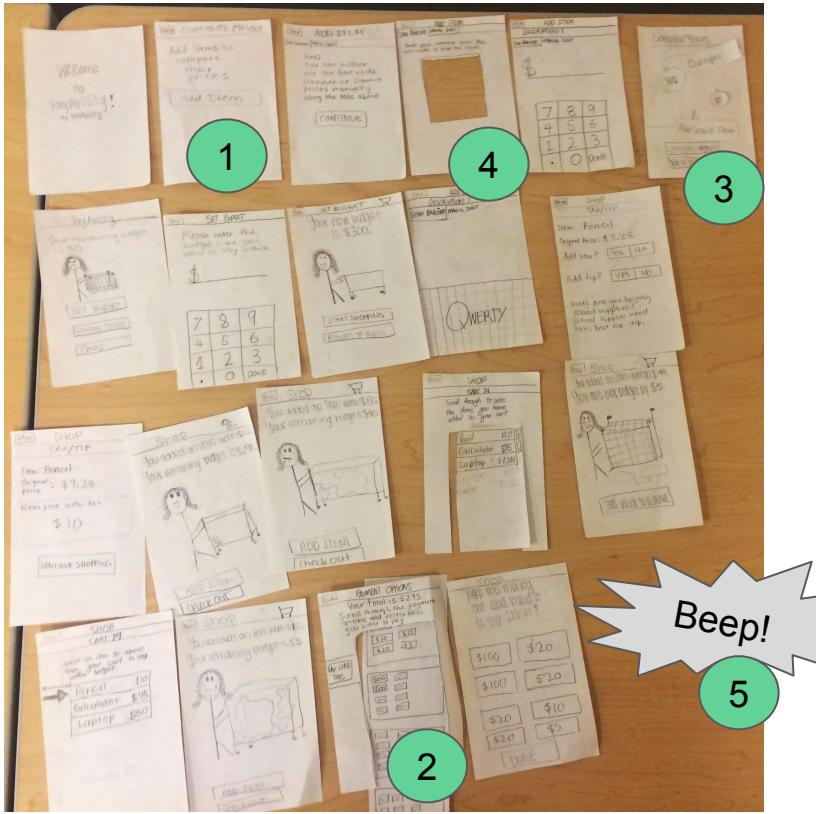


Rationale:

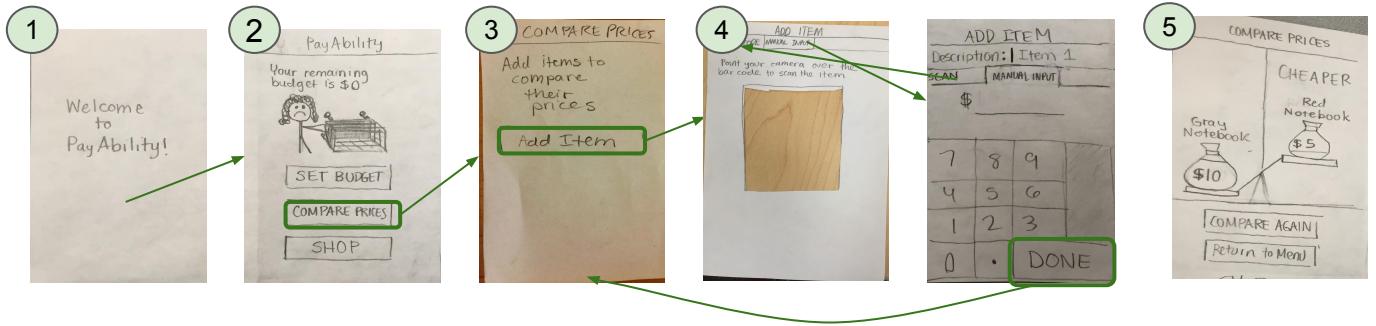
- Easier input method
- Incorporating emotions
- Making numbers visual and interactive

Low-fi Prototype Structure

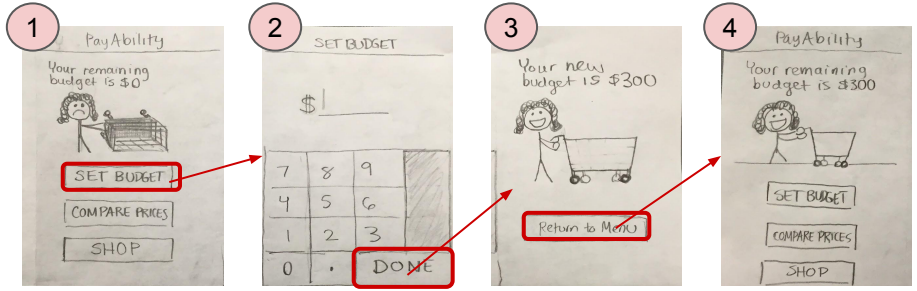
1. Paper with pencil drawings of UI
2. Long paper to simulate scrolling
3. Moving around paper cutouts to simulate animations
4. Hole to simulate barcode scanner
5. “Beep” sound to show successful scan



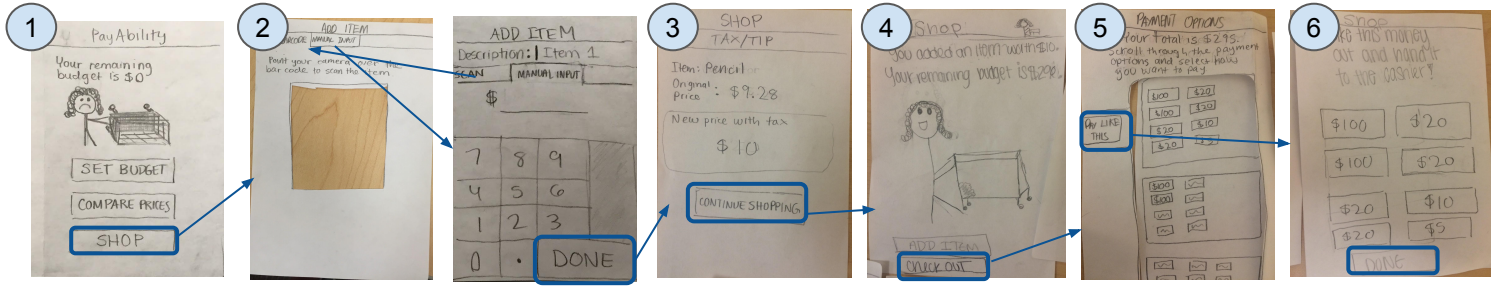
Task 1:
Comparing prices



Task 2:
Setting a budget

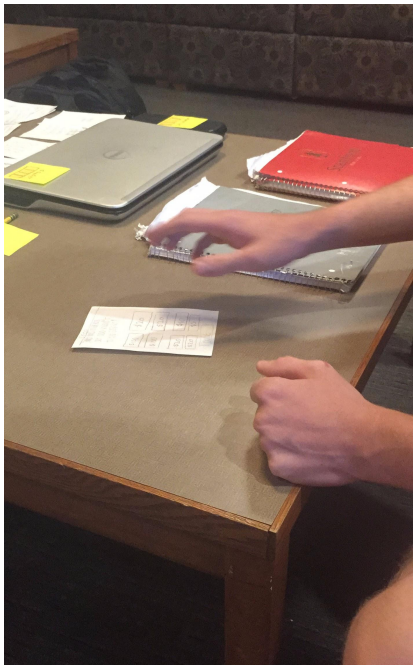


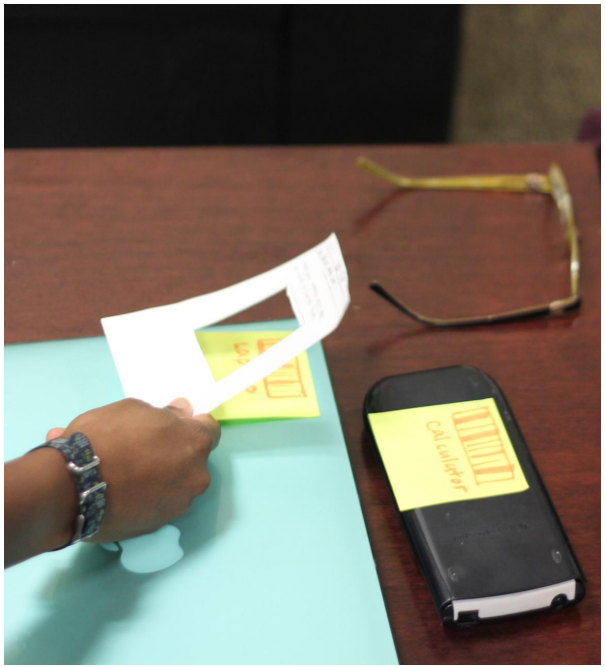
Task 3:
Shopping & paying with exact change

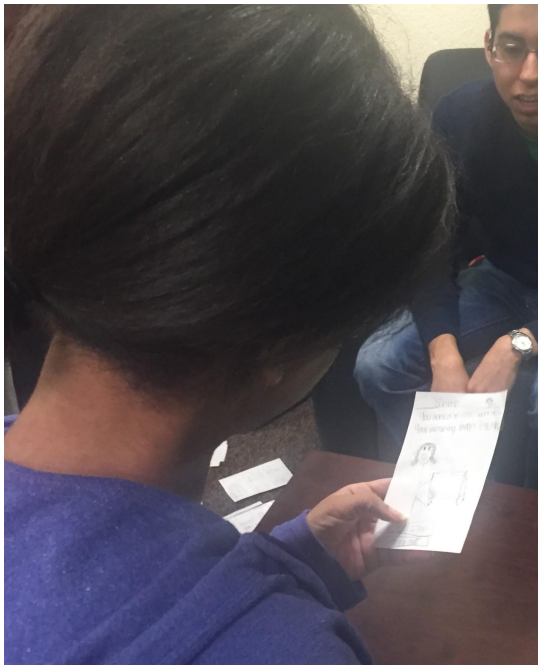


Experimental Methods

simulated office supply store using props

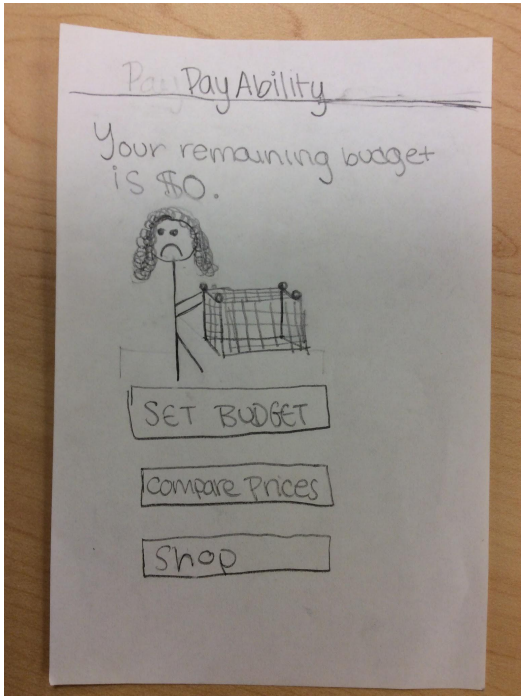




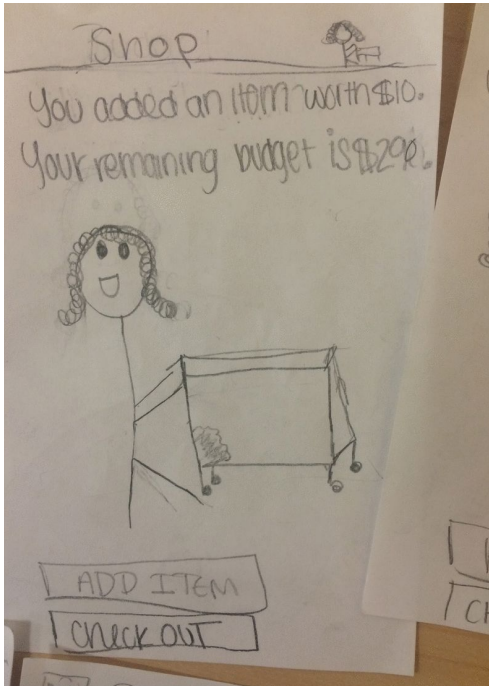


Experimental Results: Positives

Clear flow

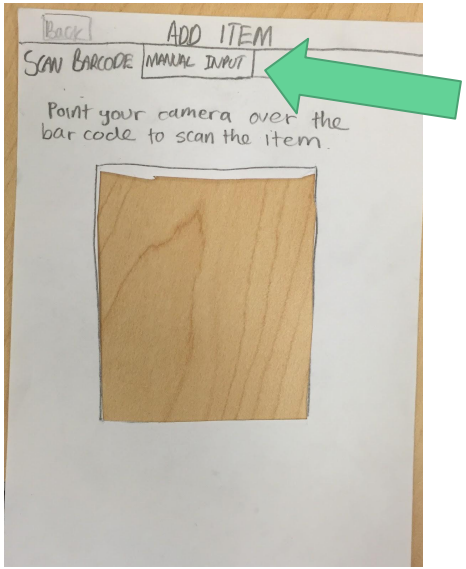


Useful animations

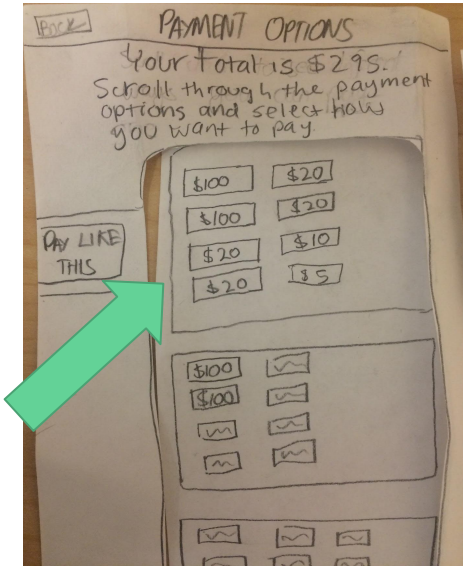


Experimental Results: Negatives

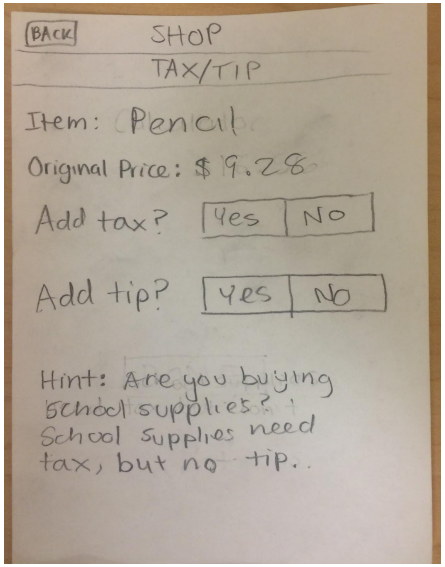
Unclear how to change between manual input and barcode scanner.



Unclear how to select the desired money option.

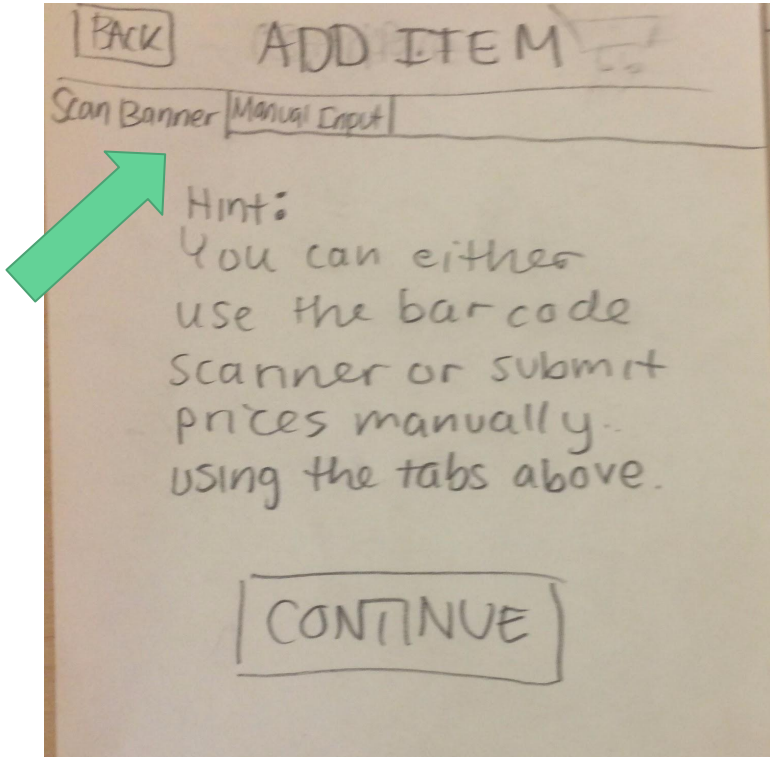


Confusion about tax and tip not showing up after barcode scan.



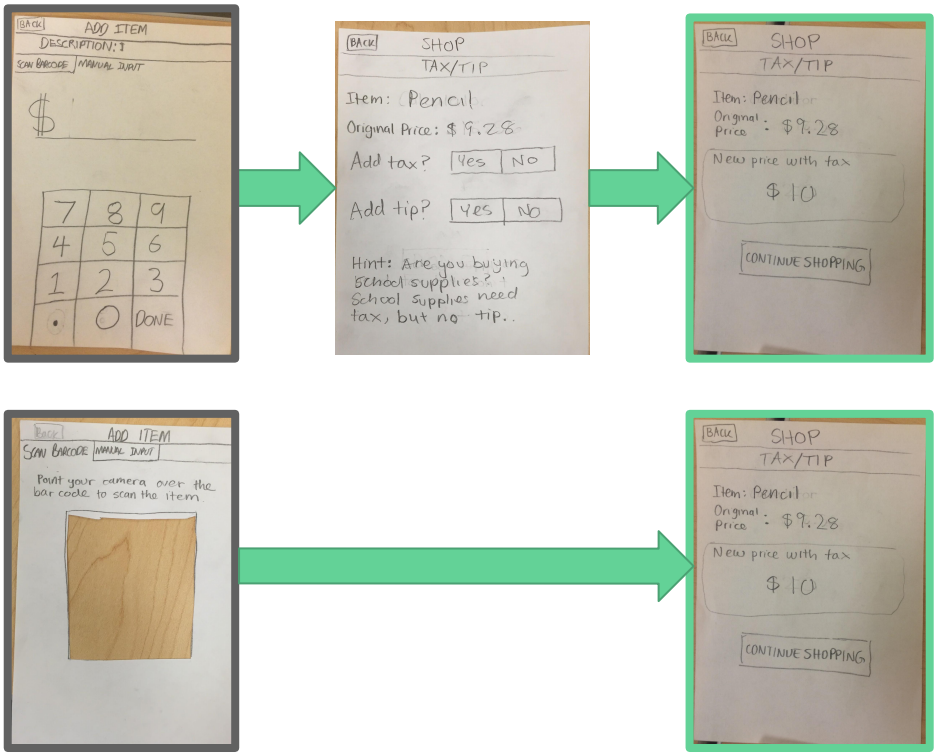
Suggested UI Changes

Splash screen clearly stating how to change between manual input and barcode scanner



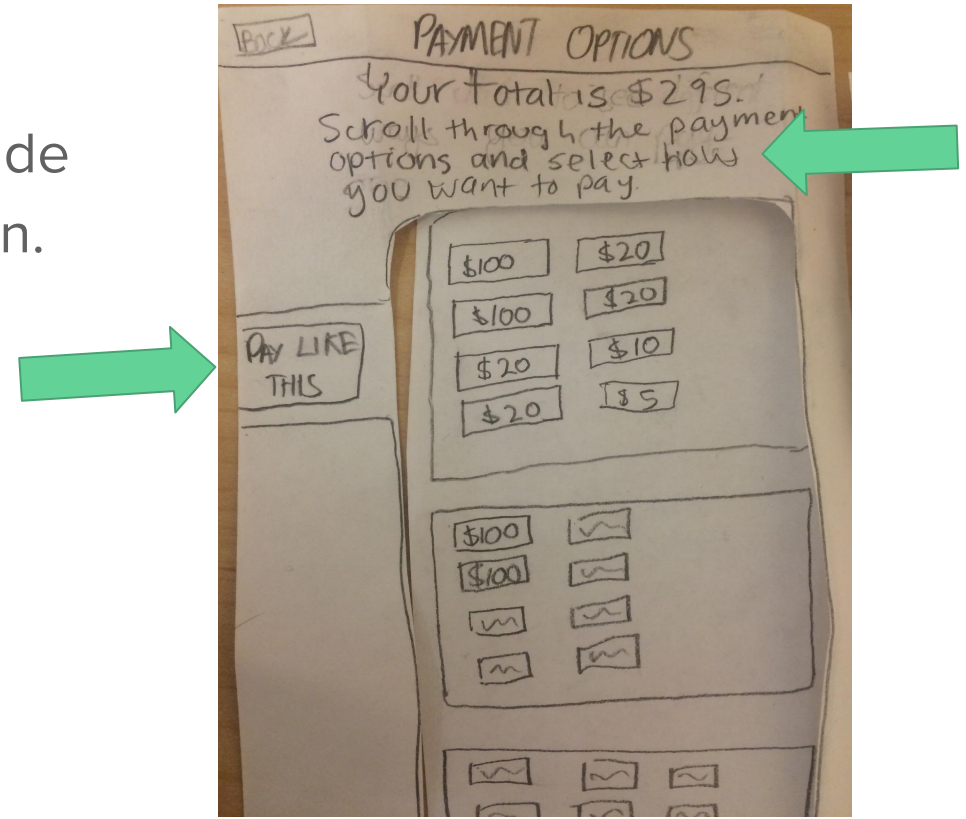
Suggested UI Changes (Continued)

Uniform flow showing tax and tip calculation screen for both manual input and barcode input.



Suggested UI Changes (Continued)

Clearer instructions and removing button on the side for money option selection.



Summary

- Improvement from experience prototype
- All 3 people had the same critiques