
Laundr

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Overall Problem

- Linda lives in an apartment complex.....
 - Laundry schedule depends on other people
 - Constant checking
 - Timing
 - Forgetfulness

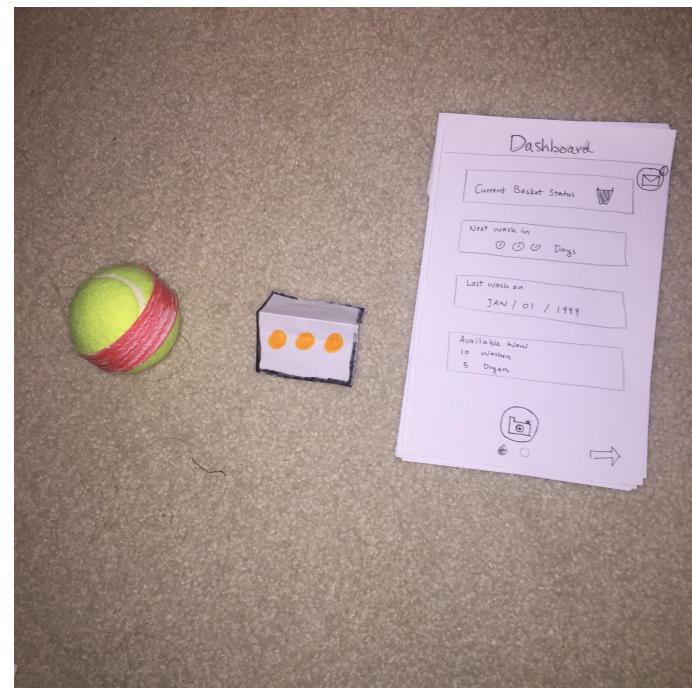


Solution

- Laundr!
 - Smart laundry system
- Task 1: Knowing when to do your laundry
- Task 2: Knowing when your laundry is done

Initial Paper Prototype

- Smart laundry ball
 - Notification and tracking device
- Basket sensor
- Mobile app



Task 1: Knowing when to do laundry

- 1) Basket sensor senses volume of dirty laundry
- 2) When limit exceeds, sensor sends a signal to the ball
- 3) Ball lights up to notify user

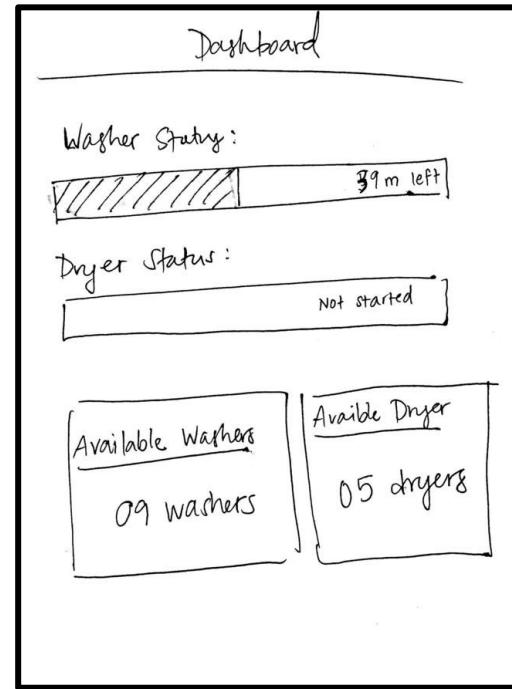


Task 2: Knowing when your laundry is done

- 1) User throws laundry ball into the washer or



- 2) User receives status update via the app



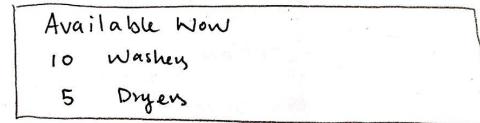
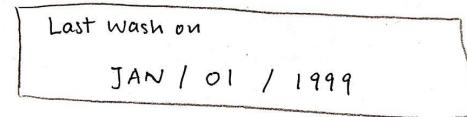
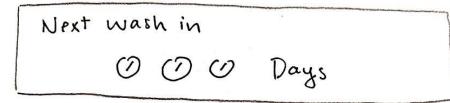
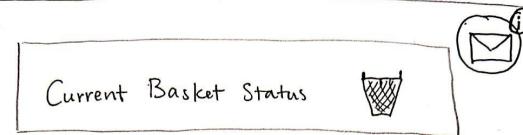
Testing Process

- 3 participants living in dorms and apartment complexes
- Pretend they are doing laundry
- Asked to complete tasks with minimal instructions
 - Check laundry status
 - Check machine availability
 - Create a schedule

Testing Results

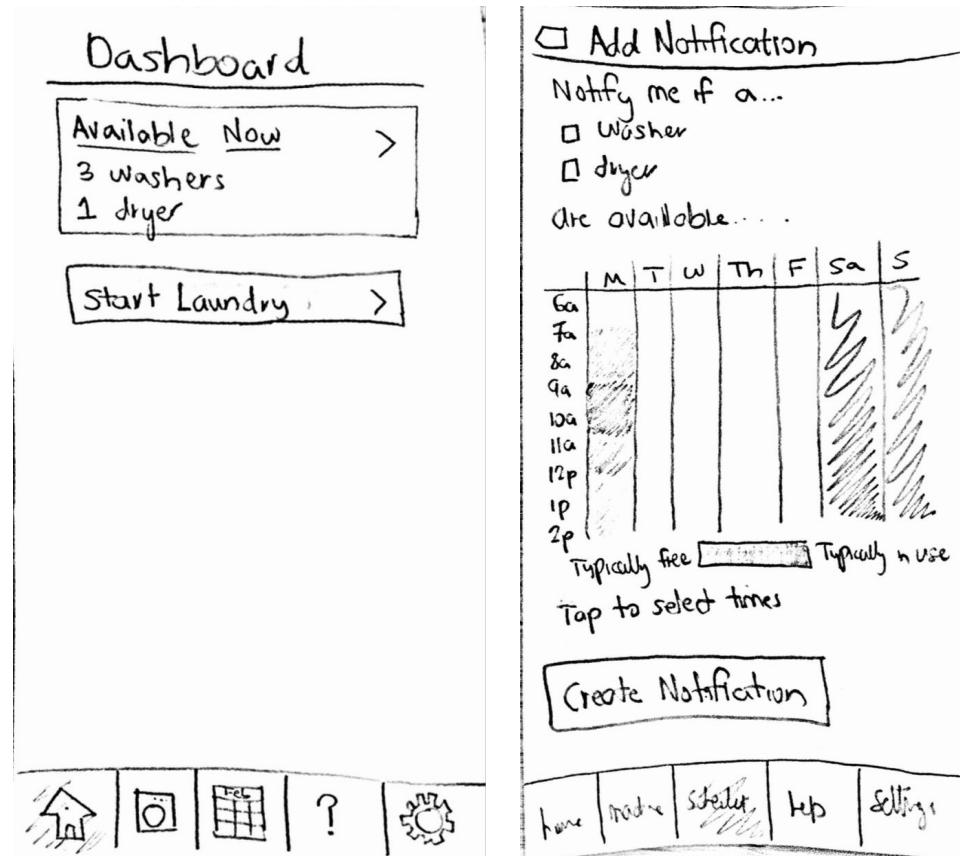
- Navigation inconsistency
- Unnecessary extra features (e.g. camera button)
- Basket sensor not as important

Dashboard



Refinements: App UI

- Navigation bar
- Remove extra features and only focused on our primary task
- Notification scheduler



Refinements: Sensor

- Basket sensor → machine sensor
- Tracks machine availability to determine when you should do your laundry



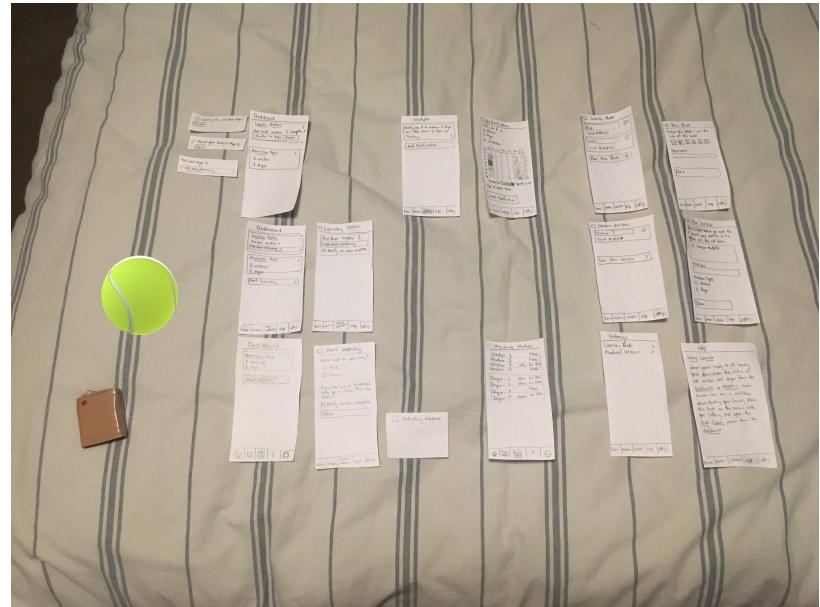
Before



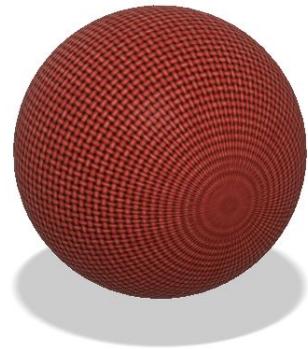
After

Final Paper Prototype

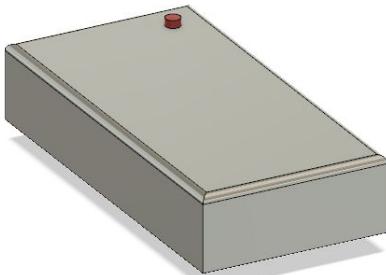
- Task 1: Knowing when to do laundry
 - Machine availability
 - Scheduler
- Task 2: Knowing when your laundry is done
 - App notifications



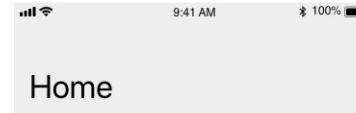
Digital Mockup



Ball



Machine sensor



Laundry Status

Red Ball: Washer 1

23 minutes remaining

Notify me when complete

Available Now

3 washers

1 dryer



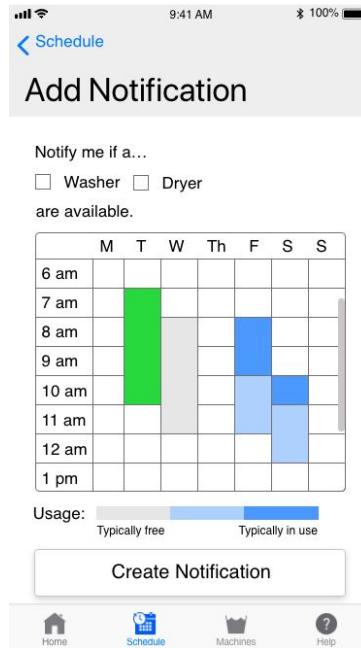
App (notifies and display statuses)

Task 1: Knowing when to do laundry

Option 1: Right now!



Option 2: Schedule a notification

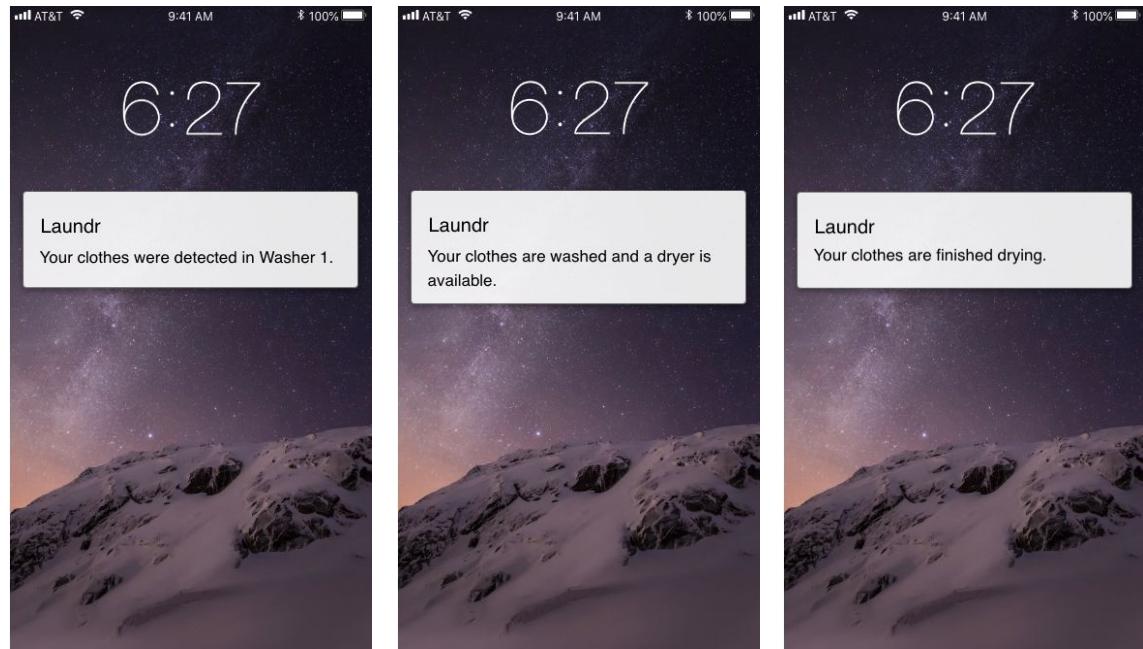


Task 2: Knowing when your laundry is done

Option 1: Check status
in the app



Option 2: Notifications with real-time updates



Lessons Learned

- Importance of an Iterative Design Process.
- User Research, selecting the right participants and right approach.
- Revising the scope of the project.
- How Usability Tests help us design user-centered products.