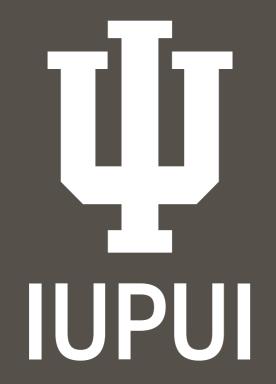


Aaron Ganci

The Forest and Its Trees: understanding interaction design through service design activities



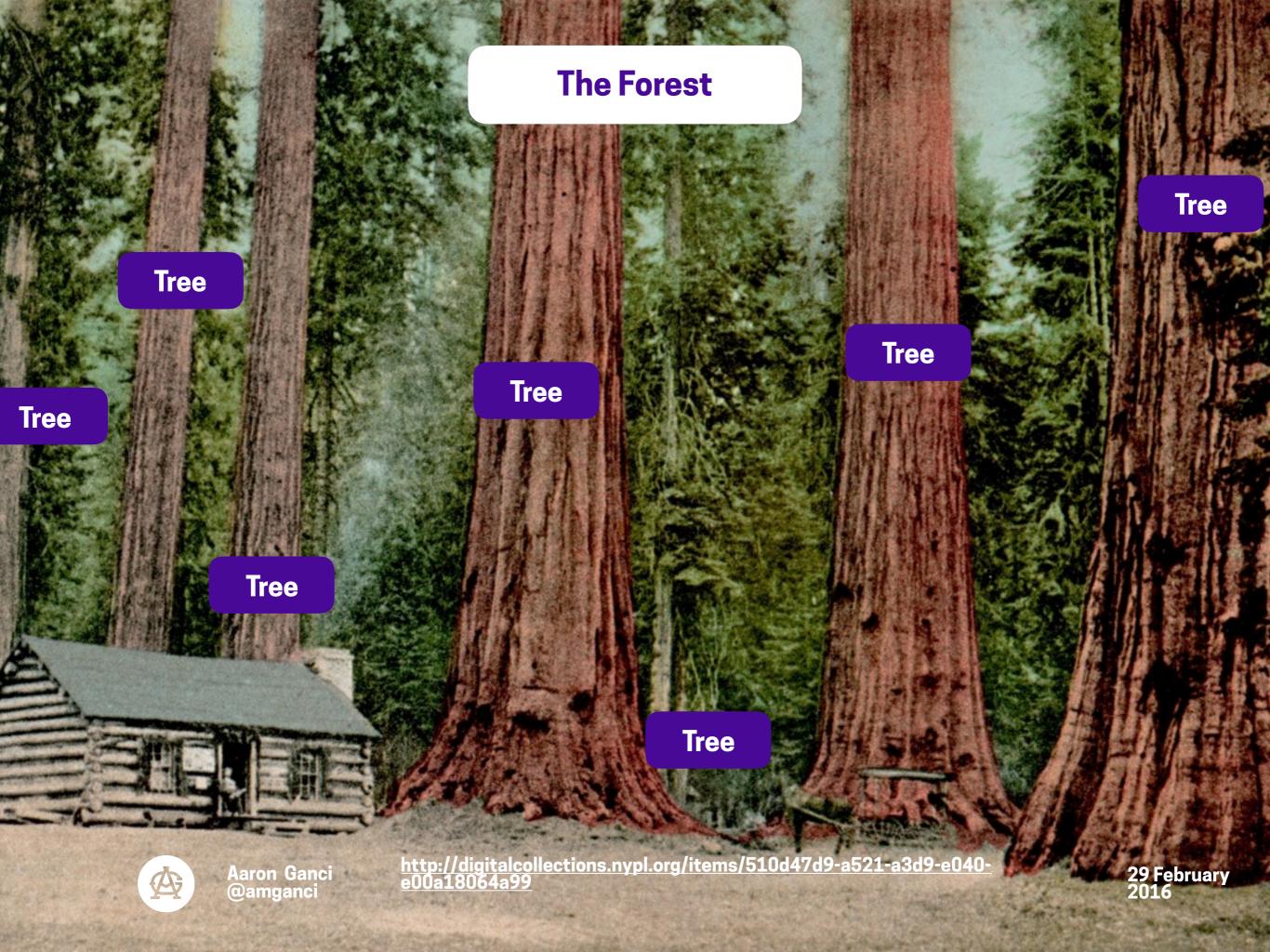
Assistant Professor of Visual Communication Design Herron School of Art and Design Indiana University-Purdue University Indianapolis (IUPUI)



HERRON SCHOOL of ART + DESIGN









How might interaction design students use service design methods to better understand their own practice?







Herron has ~ 150 VCD Students in three cohorts

Focus by year

- **Year 1** Bauhaus foundation
- Year 2 Semiotics, typography, and form
- Year 3 People-centeredness and Design Intent
- Year 4 Innovation, Research, and Experiences







Herron Visual Communication Design's short mission:

Improve people's lives through design

With...

...A people-centered process

...ethnographic research

...a focus on the visual





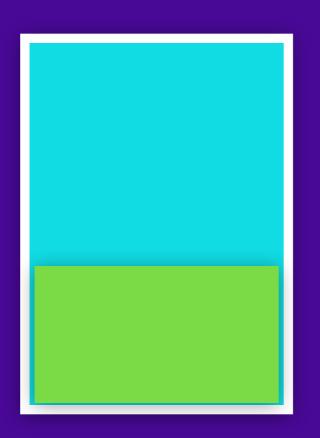
The problem:

Making "Things"

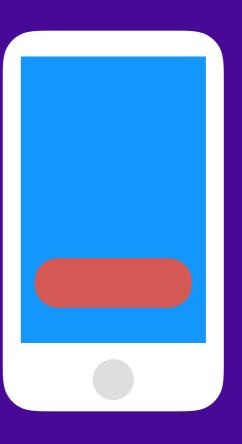




Make a poster.



Make an app.















Year 4 (Senior Year)

Spring Fall Design **Portfolio Service** Service **Digital Digital XDI XDII** Research XDI **XDII Methods** OR OR **16** weeks



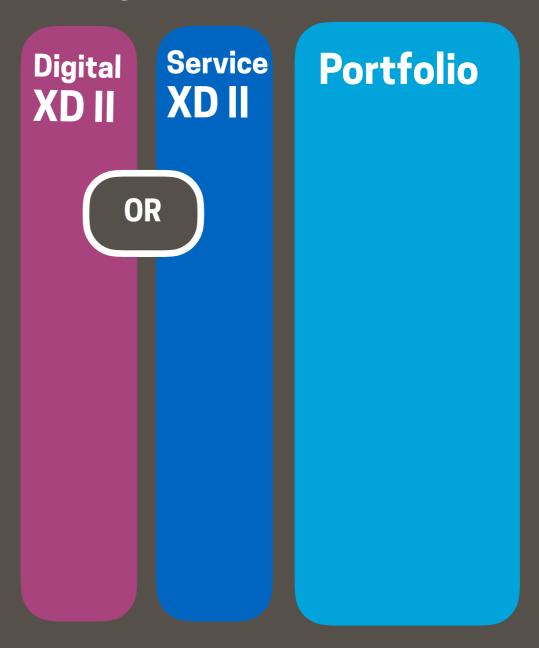


Year 4 (Senior Year)

Fall

People-Design Research centered **Methods Experience** Design **16** weeks **Service Digital XDI** XDI OR

Spring







People-centered Experience Design addresses

- What is an experience?
- How do you talk about them?
- How do you document them?
- How do you design artifacts with experience in mind?





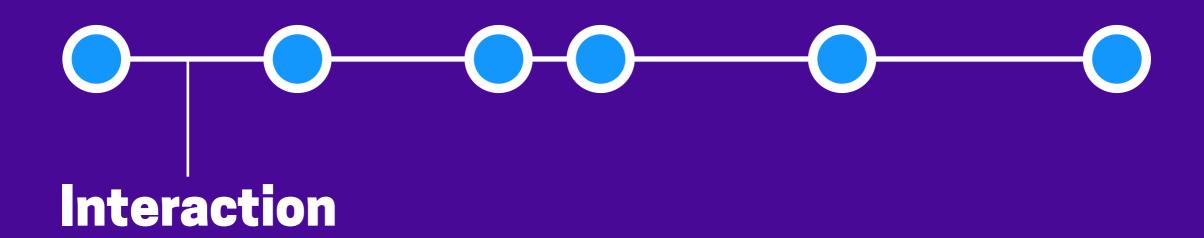
Service





Service

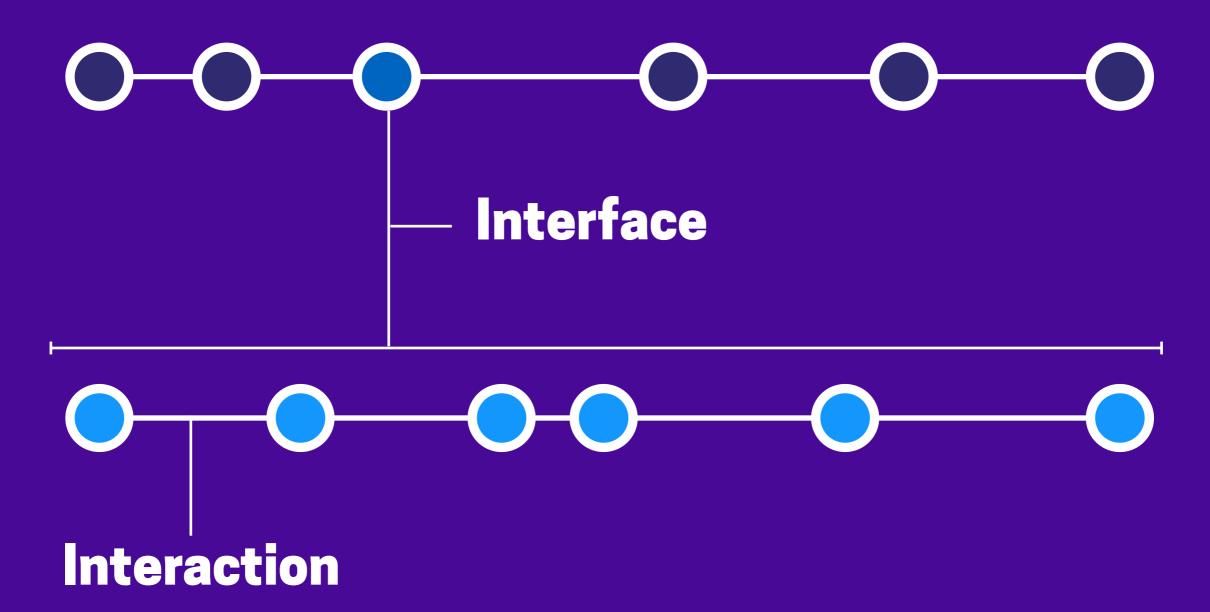








Service







Through Service Design, Interaction Designers can...

- Think beyond the app
- See an integrated system
- Understand their intervention
- Take on more complex problems





Course broken down into 3 assignments

- 1. Convey an experience
- 2. Articulate an experience
- 3. Design a new experience (an its parts)



Project One [2 weeks]

Gonuey

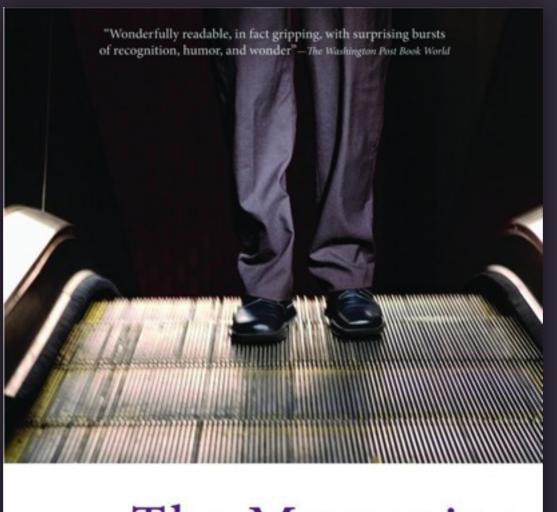




Convey an experience

- Groups of 4
- Pre-defined contexts
 (library, student center, grocery story)
- Observe an experience and describe it to someone who wasn't there.
- Medium is completely open





The Mezzanine

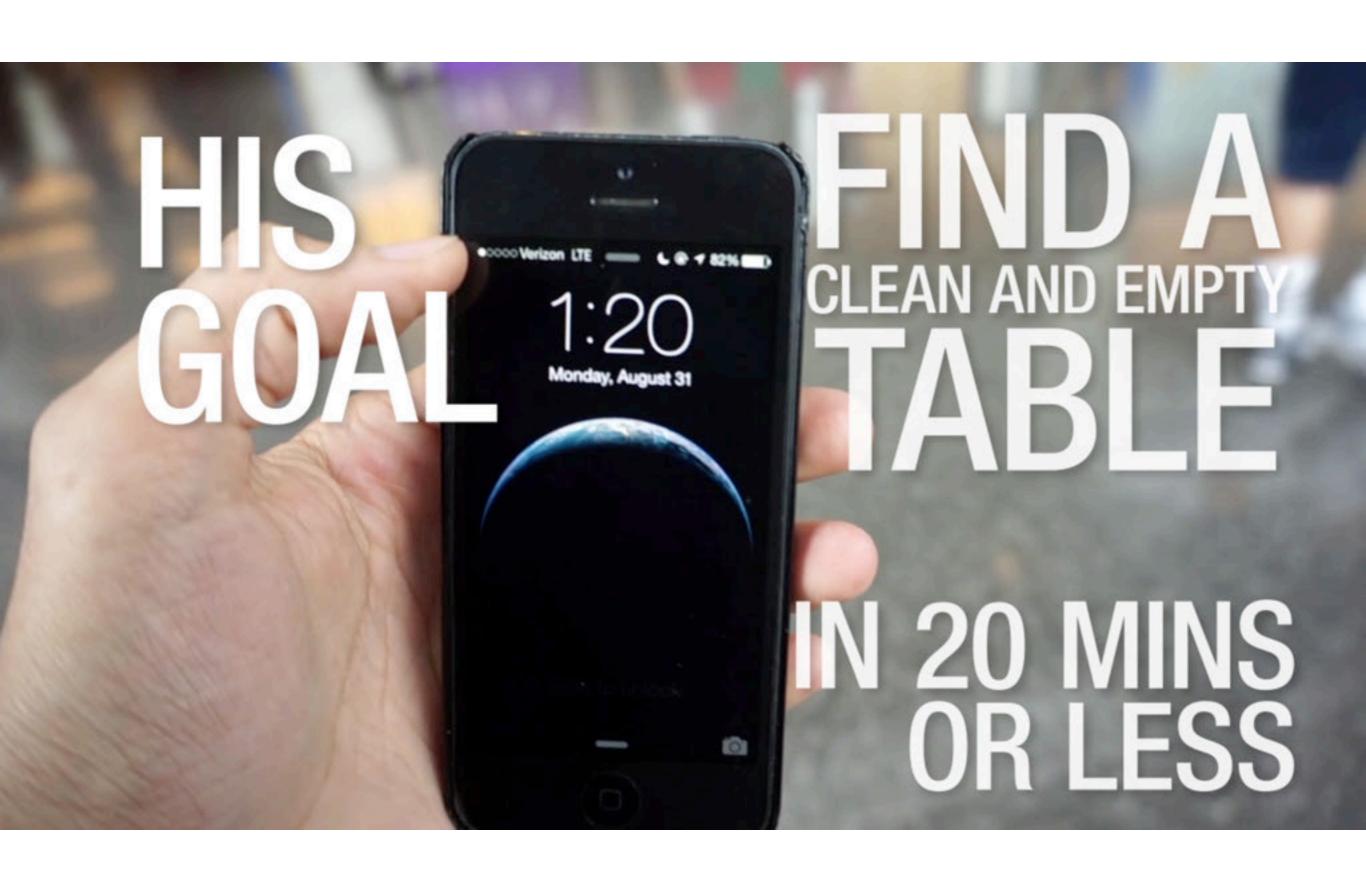
Nicholson Baker

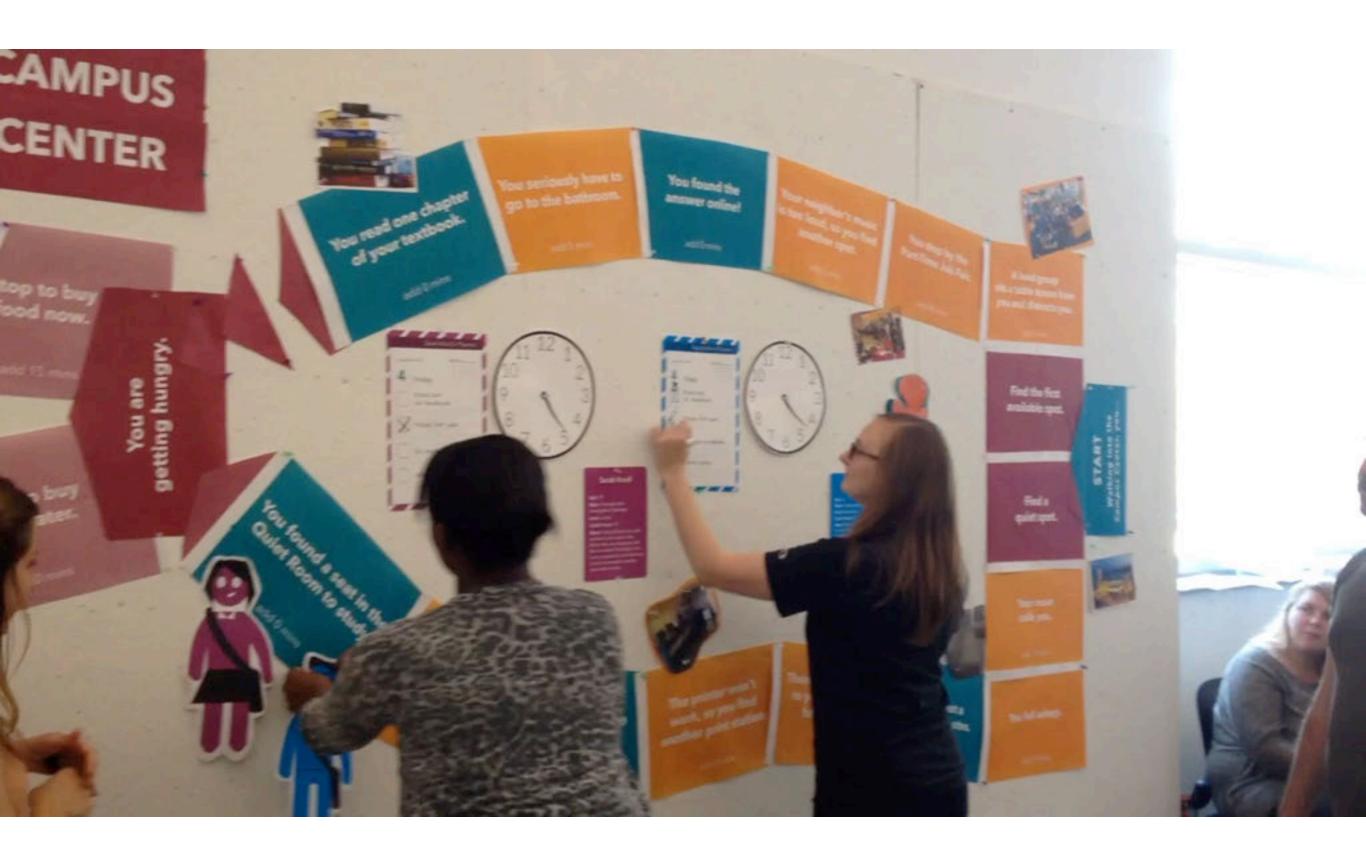
Bestselling Author of Vox and The Fermata











Learning outcomes

- Real experience are complex!
- Frame experience through user goals
- Start to identify opportunity spaces



Project Two [2 weeks]

Articulate

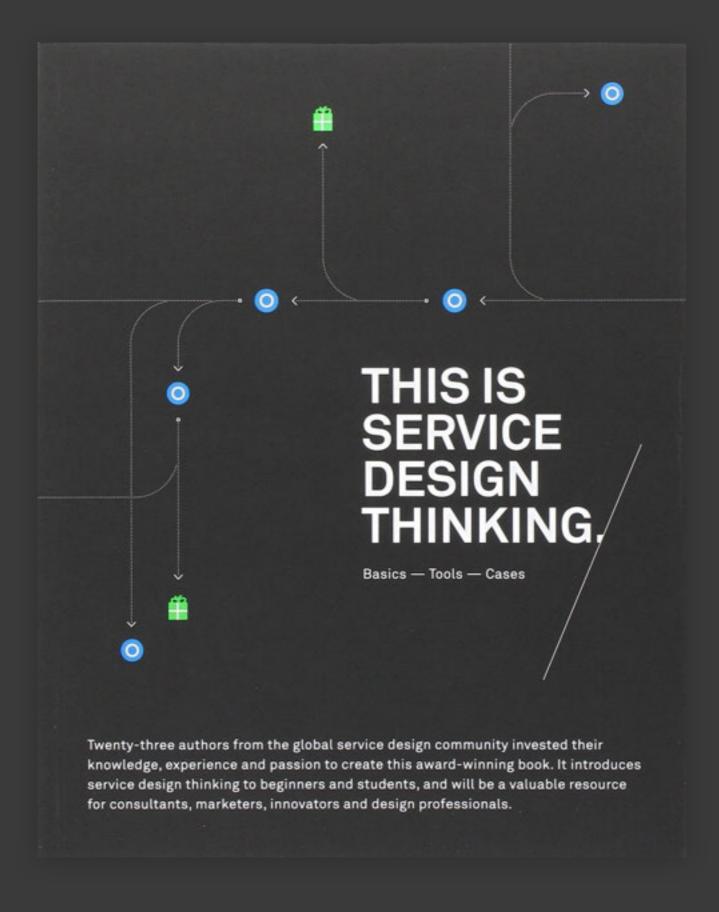




Articulate an experience

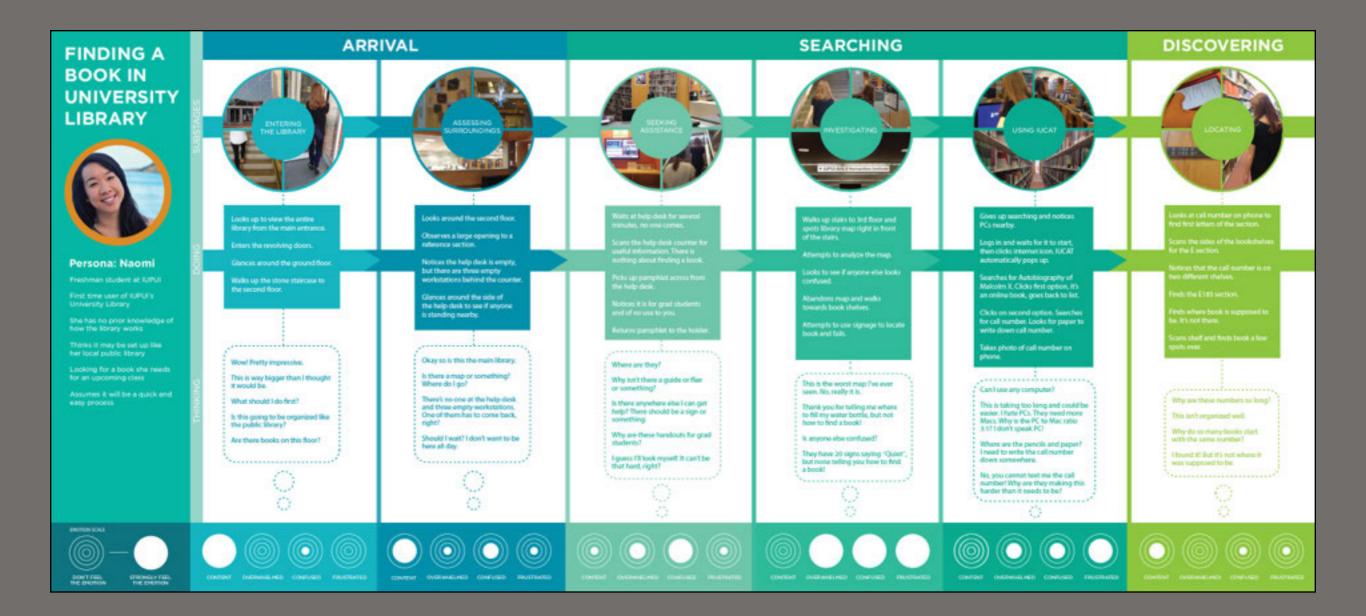
- Same groups + contexts
- Define an experience in a more permanent, actionable format
- Clearly define strengths and weaknesses of experience
- O Use experience map as a medium





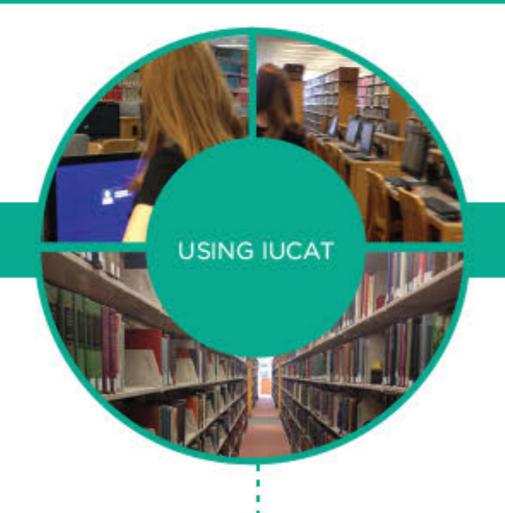












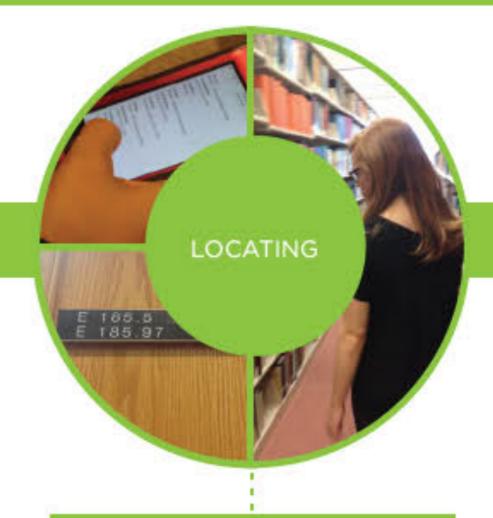
Gives up searching and notices PCs nearby.

Logs in and waits for it to start, then clicks internet icon. IUCAT automatically pops up.

Searches for Autobiography of Malcolm X. Clicks first option, it's an online book, goes back to list.

Clicks on second option. Searches for call number. Looks for paper to write down call number.

Takes photo of call number on



Looks at call number on phone to find first letters of the section.

Scans the sides of the bookshelves for the E section.

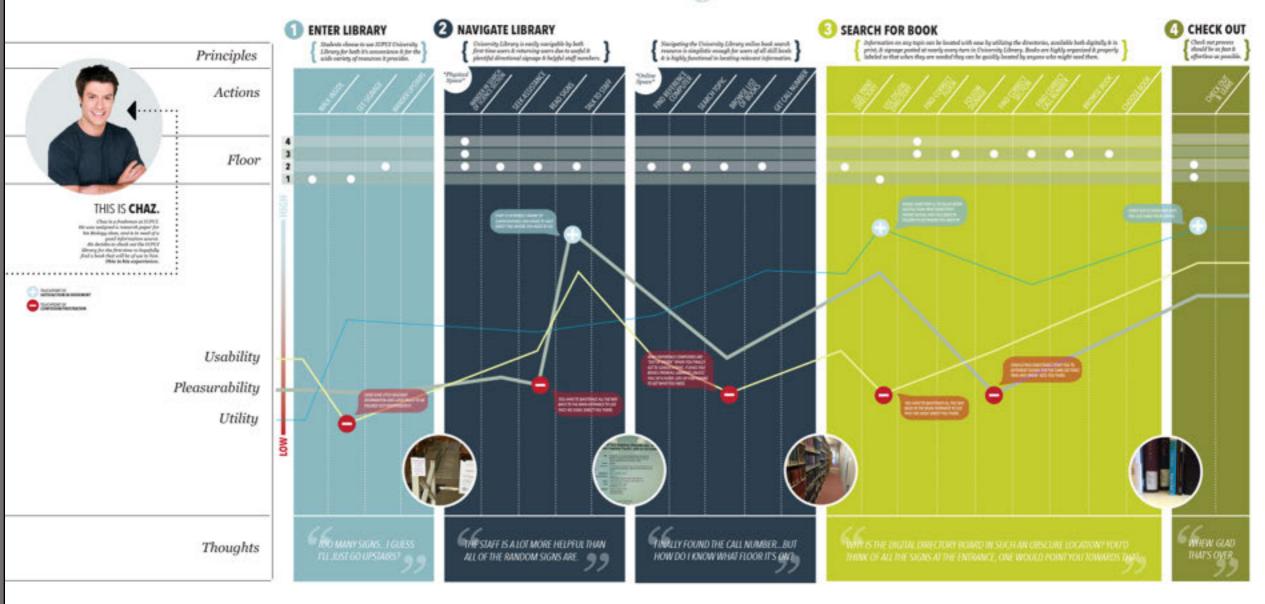
Notices that the call number is on two different shelves.

Finds the E185 section.

Finds where book is supposed to be. It's not there.

Scans shelf and finds book a few spots over.

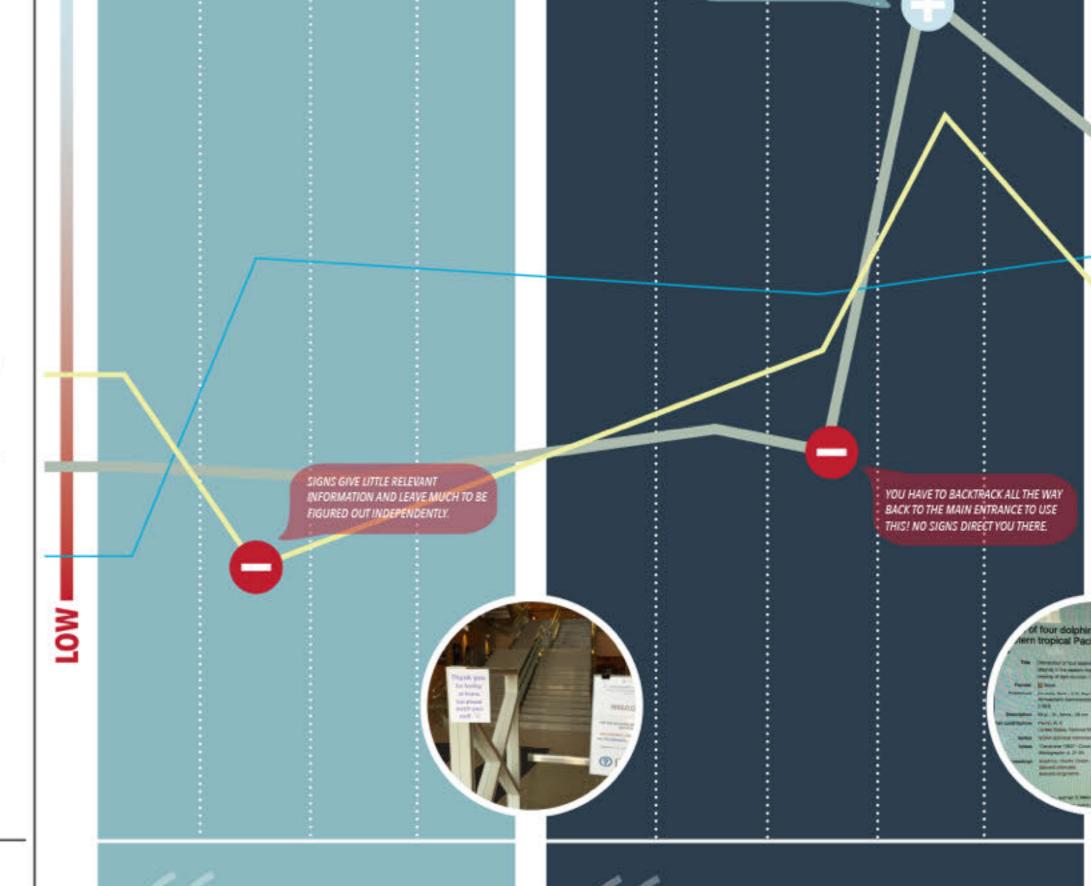
UNIVERSITY LIBRARY // Finding a Book







Usability Pleasurability Utility



Thoughts

TOO MANY SIGNS...I GUESS I'LL JUST GO UPSTAIRS? THE STAFF IS A LOT MORE HELPFUL THAN ALL OF THE RANDOM SIGNS ARE.

WALMART SHOPPING CART EXPERIENCE

Shopping Cart User Goal

The shopping cart user has shopping needs. The user is buying enough items to need the use of a cart.



Carts should ...

- · be easily accessible.
- be well-functioning and clean.
- be organized by employees. • make shopping easier.

General Principles



- Grocery stores should ... have intuitive navigation.
- have a large selection.



Employees should be ...

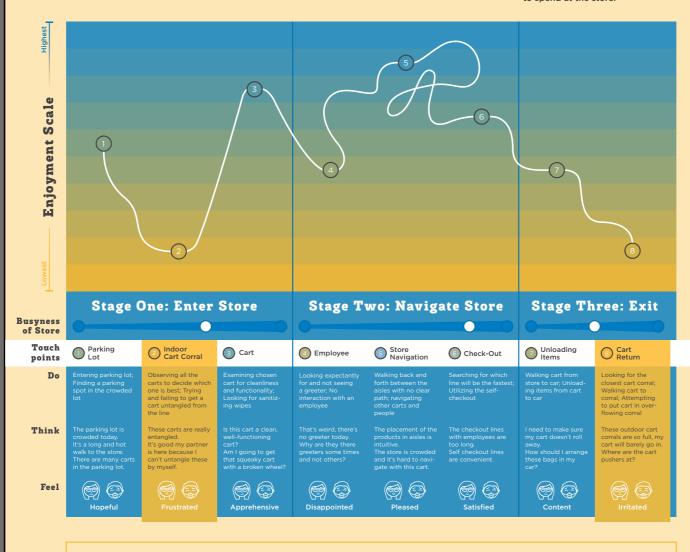
- helpful.
- well-trained.
- adaquately staffed.

Specific Persona





Elizabeth and Pat are a couple in their early 20's. They are feeling carefree and relaxed so they have free time to spend at the store.



Pain Points: Touchpoints 2 & 3



Indoor Cart Corral & Cart Return

Both touchpoints involve the cart corral and its organization. The carts in the indoor cart corral were entangled. The outdoor cart corral was so full, I could barely return my cart.

Call To Action

From the General Principles, customers expect carts to be easily accessible and organized. These principles are not satisfied in Walmart's cart experience, as seen in the pain points. Walmart should re-evaluate how they organize their carts and train their employees so these principles will be satisfied.





Stage One: Enter Store

Stage Two: 1

Touch points

Busyness

of Store







Cart



Employee



Do

Entering parking lot; Finding a parking spot in the crowded lot Observing all the carts to decide which one is best; Trying and failing to get a cart untangled from the line

cart for cleanliness and functionality; Looking for sanitizing wipes

Examining chosen

Looking expectantly for and not seeing a greeter; No interaction with an employee Walking forth bet aisles with path; navother can people

Think

The parking lot is crowded today. It's a long and hot walk to the store. There are many carts in the parking lot.

Hopeful

These carts are really entangled.

It's good my partner

It's good my partner is here because I can't untangle these by myself.

Is this cart a clean, well-functioning cart?
Am I going to get that squeaky cart

with a broken wheel?

That's weird, there's no greeter today.
Why are they there greeters some times and not others?

The place products intuitive. The store and it's higher with

Feel





Frustrated





Apprehensive





Disappointed



Ple



Learning outcomes

- Define an experience in a 2D plane
- Combine qualitative and quantitative data to tell one story
- Describe how, when, and why artifacts/interfaces are used



Project Three [4 weeks]





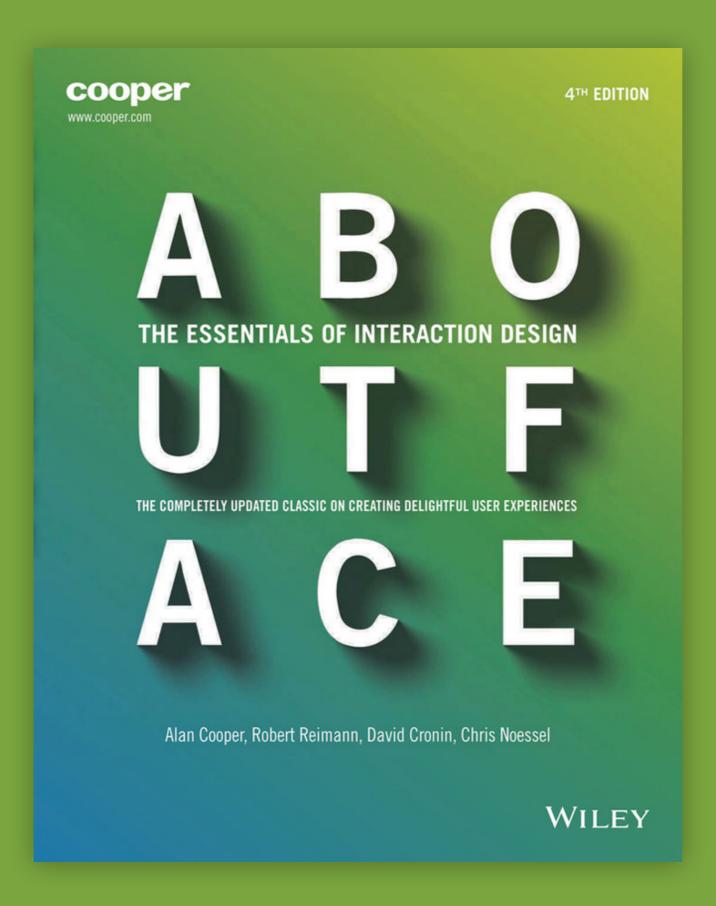
Design an experience and its parts

- New groups of 4
- Pre-defined sub-contexts (eating lunch in our building)
- Observe existing experience and prototype an improved one
- 3 Phases of experience: Pre, During, Post
- O Define the full experience and design its individual pieces (artifacts)











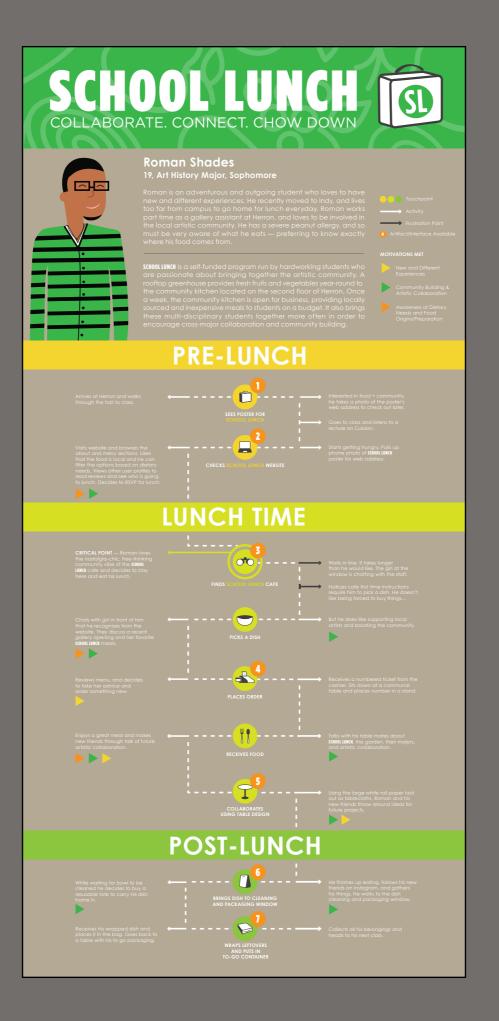


SCHOOL LUNCH COLLABORATE. CONNECT. CHOW DOWN





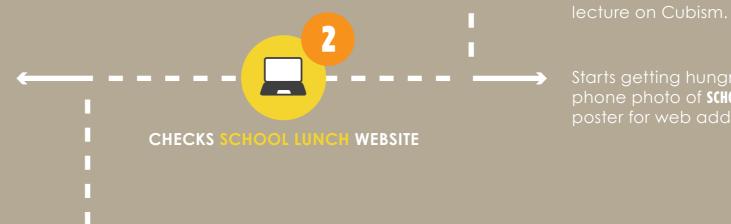








Aaron Ganci @amganci Visits website and browses the about and menu sections. Likes that the food is local and he can filter the options based on dietary read reviews and see who is going to lunch. Decides to RSVP for lunch.



Starts getting hungry. Pulls up phone photo of **SCHOOL LUNCH** poster for web address.

Gues 10 class and listens 10 a

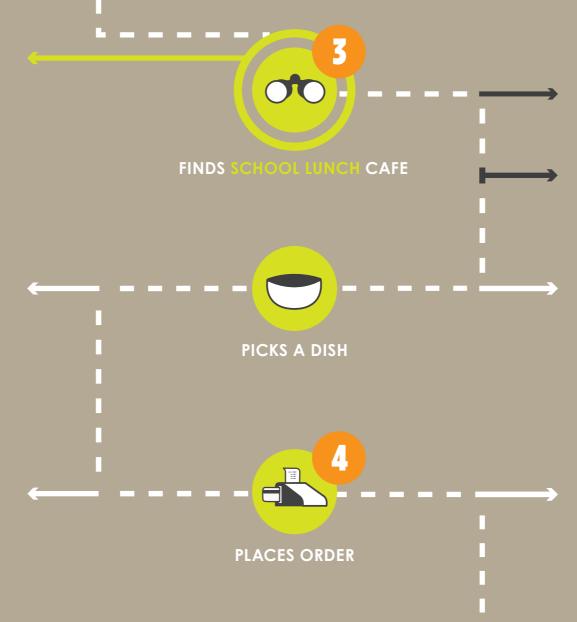
LUNCH TIME

CRITICAL POINT — Roman loves the nostalgia-chic, free-thinking community vibe of the **SCHOOL LUNCH** cafe and decides to stay here and eat his lunch.

Chats with girl in front of him that he recognizes from the website. They discuss a recent gallery opening and her favorite **SCHOOL LUNCH** meals.



Reviews menu, and decides order something new.



Waits in line. It takes longer than he would like. The girl at the window is chatting with the staff.

like being forced to buy things...

But he does like supporting local artists and boosting the community.



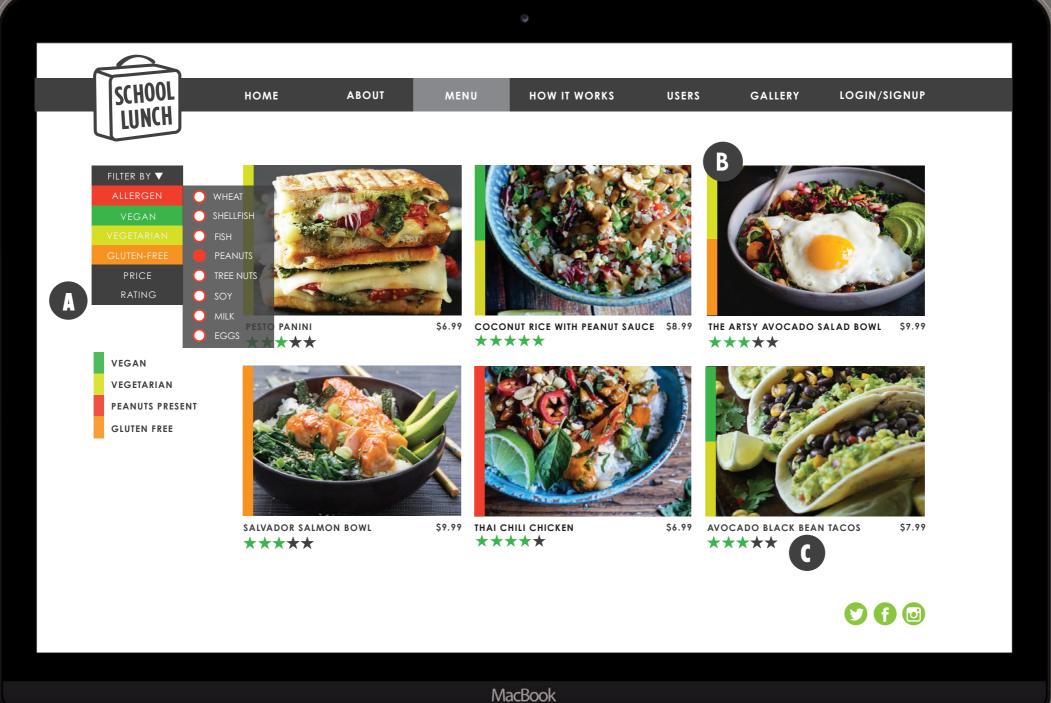
Receives a numbered ticket from the table and places number in a stand.





COLLABORATE CONNECT CHOW DOWN

Every Wednesday on the 2nd floor www.schoollunch.com





HOME

ABOUT

MENU

HOW IT WORKS

USERS

GALLERY

LOGIN/SIGNUP

ALLERGEN × PEANUTS ×

FILTER BY ▼

ALLERGEN

VEGAN

VEGETARIAN

GLUTEN-FREE

PRICE

RATING



THE ARTSY AVOCADO SALAD BOWL

A delicious salad of local beets, carrots, kale, brussel sprouts and chickpeas act as a bed for a single perfectly fried cage free egg. The salad comes with a miso dressing that is served on the side and is topped by pomegranate seeds and sliced avocado.



\$8.99

Contains: Beets, carrots, brussel sprouts, kale, eggs, soy, chickpeas, avocado, spinach, miso, olive oil, salt, parsley and pomegranate seeds

















MacBook





7 TO-GO CONTAINER

Throughout his lunch, Roman spends so much time collaborating with his new friends that he isn't able to finish all of his food. He asks a staff member for a to-go box, folds the container, and secures his leftovers inside.

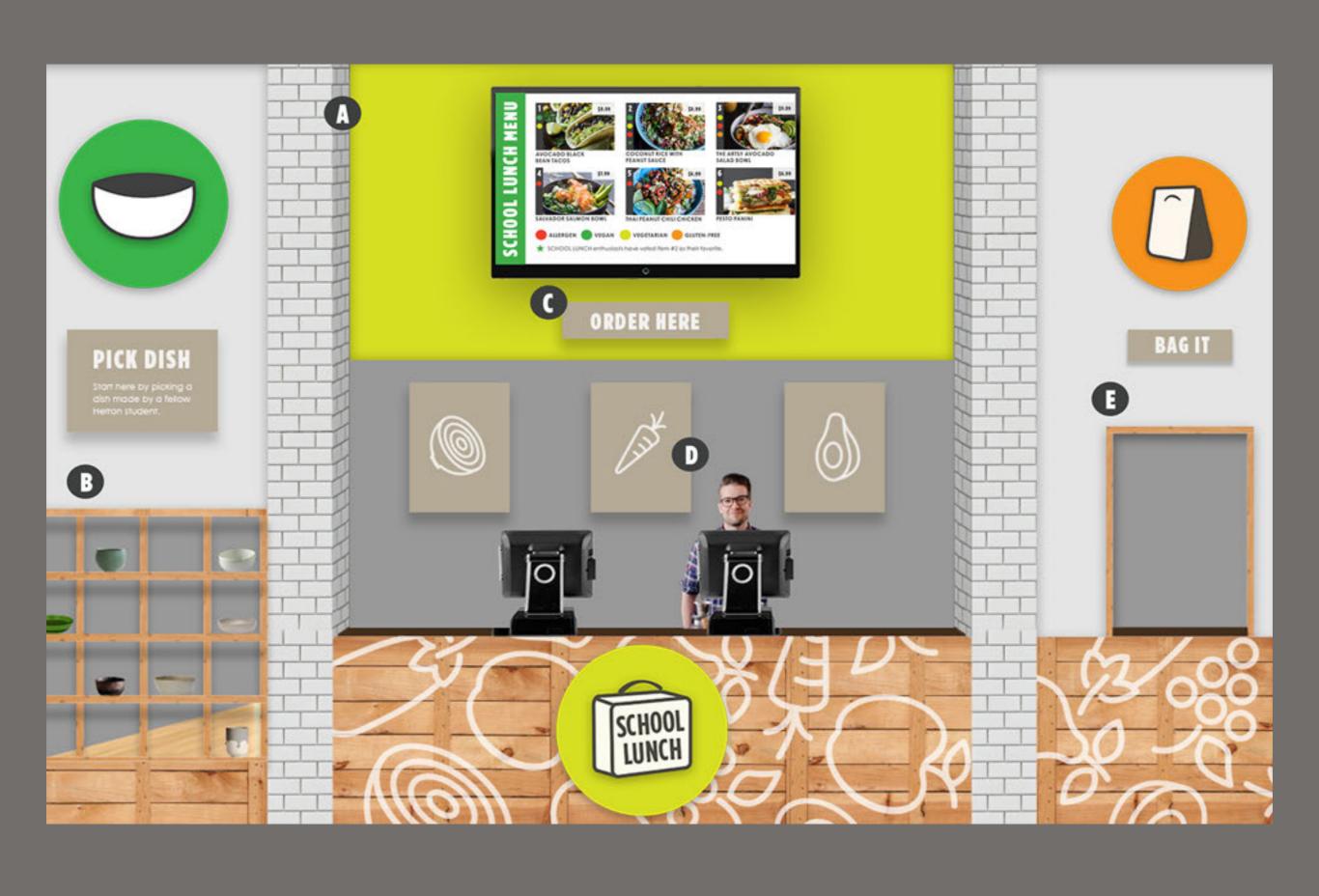
- A Wax-coated deli paper inside each container provides a no-spill barrier for all kinds of leftover food items. Be worry free while carrying it alongside sketchbooks, refined artworks, and important homework assignments.
- B A hand printed graphic pattern on the box secured with a SCHOOL LUNCH logo sticker brings a personal touch and sense of craft to each lunch experience.







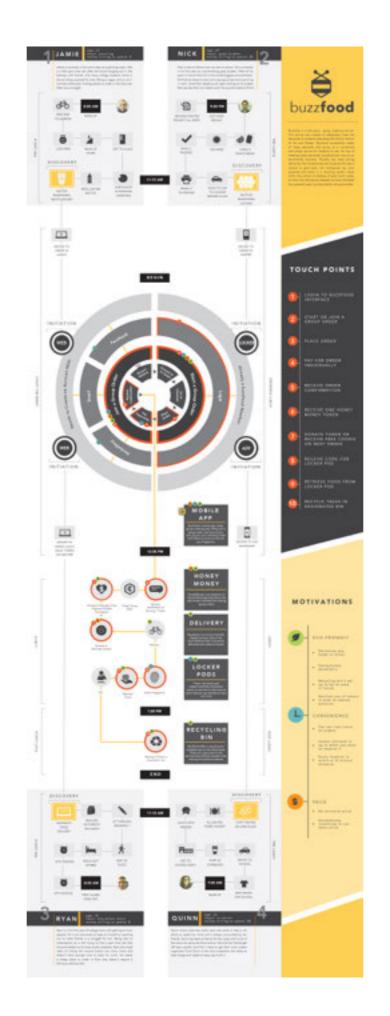












LUNCH



MONEY

HoneyMoney is an extension to the buzzfood app that allows the user to earn rewards from having group orders

DELIVERY

Buzzfood is an environmentally fueled business. Due to the short distance that is served all deliveries are made on bicycle

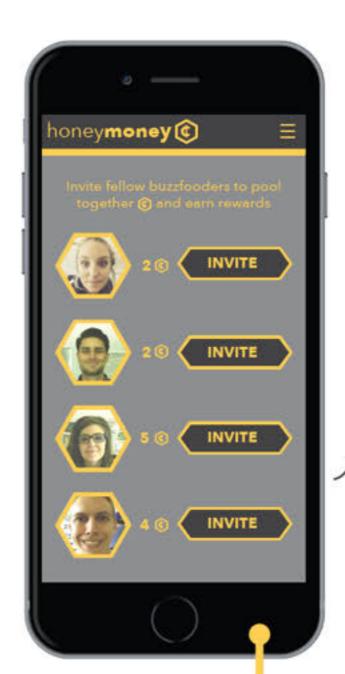
LOCKER PODS

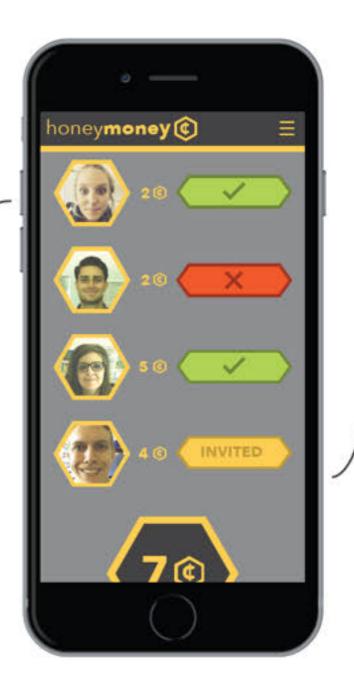
These individual pods create a seamless transaction where no one has to track anyone down and you can retrieve on your own time

RECYCLING

Buzzfood offers a recycling bin available next to the locker pods. These bin's give back to the environment and are reused in the making of buzzfood materials





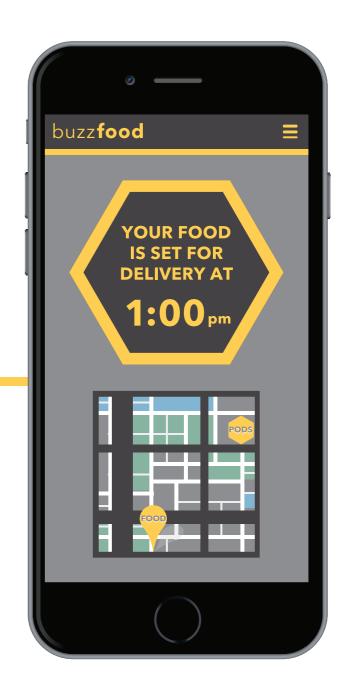


honeymon

POOL

This is a system in which a group of individuals can pool together their honeymoney to collectively earn a prize as a group. The prizes can be collected whether you are hungry and are about to place or group order or if you aren't going to order any food at all.





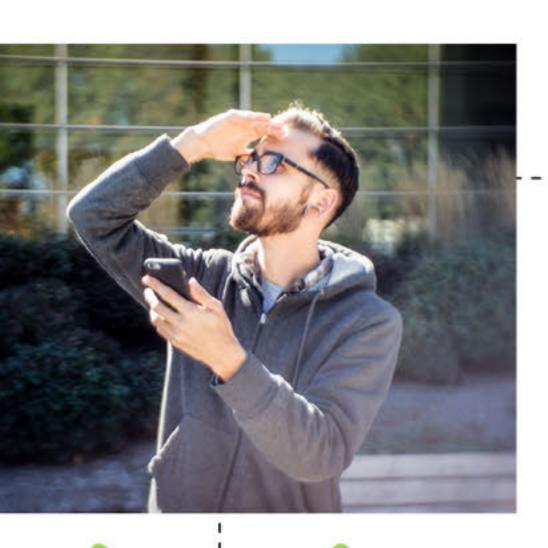
The post order tab of the app provided a reminder of the scheduled deliver time of the order. Located right below is a map that uses a real-time GPS tracker to display the current location of the food. Push notifications can also be turned on in the settings tab







INCOMING PACK





MICHAEL'S EXCITEMENT OVER ENGAGING AN UNUSUAL TECH-NOLOGY CONTINUES TO BUILD AS HIS FOOD IS BEING DELIVERED QUICKER THAN HE IS USED TO.

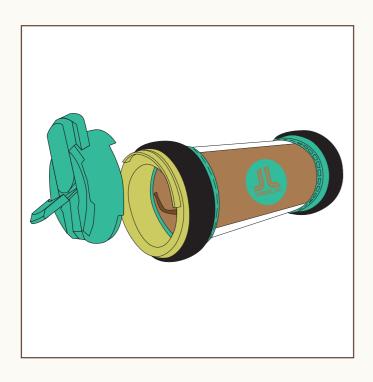


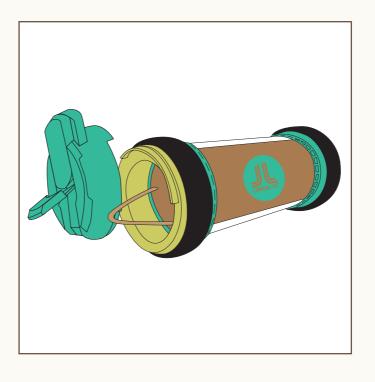
ARRIVAL

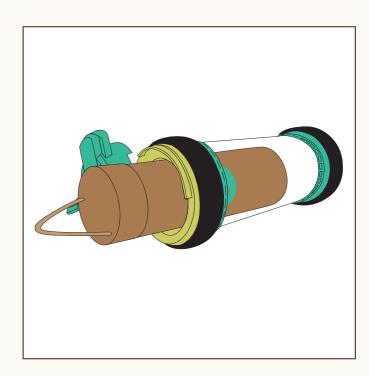












Pulling out the package from the cannister.

THANK YOU! **EST. TIME: 7 MINUTES** Did you know that the we source all of our food locally? It's not only better for the environment, it's good for our local business and better for your health. PAID TOTAL: \$15.03

Learning outcomes

- The digital interface is usually only one piece to the bigger experience
- The I/O of you UI is critical to the flow of the experience
- Respect for teammates: planning a good experience takes a lot of different expertise



Looking at the big picture helps them think about more innovative so utions.





The quickness of the project lends itself well to lessons about rapid prototyping.





Have frequent reflection points about the importance of this learning.





They start to see the artifact as a tool to improve lives.





Creating a Feeling of Collaborative Culture Among Solo Working Entrepreneurs

The Frequency of Tangible Memories: Utilizing RFID in the Development of Consumer Goods

Embodied Interaction:
Mediating our Digital
Environment through
Physical Communication

Bridging the Gap: A study of how families communicate and stay connected across long distances

Matching Applicants
Personality with Workplace
Culture







THANK YOU

ganci.co/ixd16



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Herron School of Art and Design
Indiana University-Purdue University Indianapolis (IUPUI)