For Puse TM PACT IMPACT IMPACT IMPACT

UX research report

Borrow Box

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OCTOBER 2018

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THE ASK

Validate whether City-Based Food-Court Patrons (CFPs) will delight in adopting a reusable take away container service during lunch.

"BorrowBox."

HYPOTHESIS

People are growing more conscious.

GROWING AWARENESS

"Australians see plastic pollutions as the #1 threat to Australia's oceans and coastal waters"

HYPOTHESIS

We are here to give them a means to participate and make a change.

OUR APPROACH

We have used a design thinking problem solving approach, based on user-centred design principles, to help ForPurposeCo envision the end-to-end digital opportunities.



Empathise

- Contextual Inquiries
- In-depth Interviews
- Competitive Analysis
- Mood boarding & mind mapping



Define

- Qualitative Analysis
- Affinity Mapping
- Personas
- Customer Journey Mapping



Ideate

- Reframing problem into HMW statements
- Sketching
- Rapid ideation & brainstorming



Prototype

- Low-fidelity paper prototype
- Mid-Fidelity
 wireframe prototype
- Concept testing



Test

- Usability Testing
- SUPRQ User
 Experience
 questionnaire
- Customer NPS rating benchmark



What we found

INSIGHT #1

Chaotic Convenience

City food-courts need to cater to a large amount of personnel traffic and to produce food as fast as possible. These patrons have less than 60 to 30 minutes to get and consume their lunch within their break period. Crowds and waiting in line are common pain points for corporate workers as they want food selection and ordering to happen invisibly in the background so they can focus most of their lunch time eating and winding down.

How might we...

ensure that BorrowBox will provide service that enhances time and convenience of the lunch time patron to suit their basic lunch time needs?



INSIGHT #2

Inconsistent Waste Education

Not everyone is aware of recycling rules. There is often confusion of what can and can't be recycled when it comes to take away containers. This is further complicates by different places have different signs. This is often an indication of how they practice waste at home.

For the environmentally conscious, the lack of education of their peers are their greatest frustration.

How might we...

educate and empower users to lead themselves and others into a more sustainable lifestyle?



INSIGHT #3

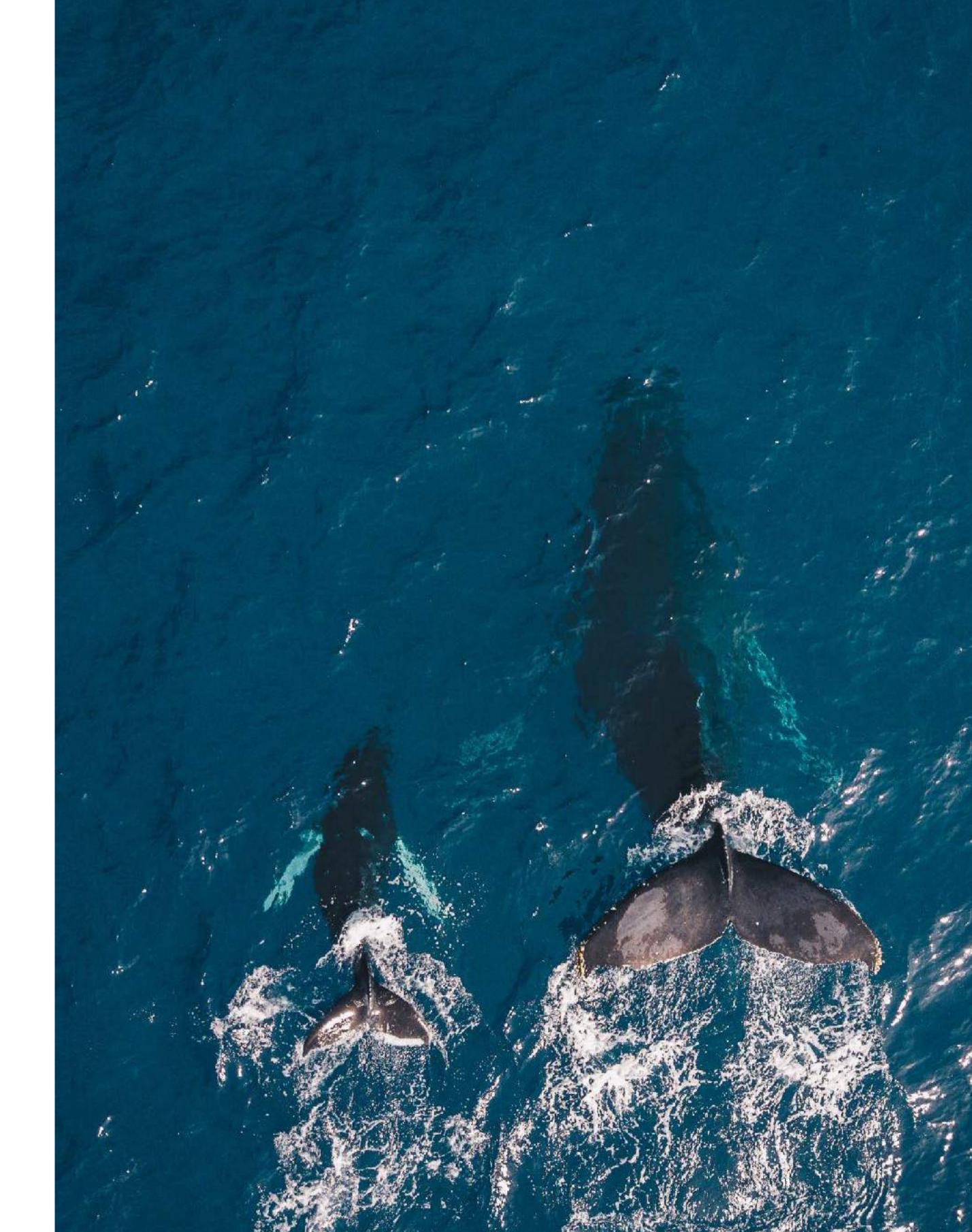
Impact Is Worth the Sacrifice

For the environmentally conscious patrons, the impact they can have to reduce personal waste footprint is more important that the personal cost of convenience, money and even social perception.

The ability to see their personal and collective impact is crucial to their engagement.

How might we...

help patrons visualise their impact while using BorrowBox to increase their engagement and evangelism?



Meet the CFPs...

"I rehash salad boxes to reuse again; my colleagues think that I am weird."

Committed Charlene



Committed Charlene



Age: 36

Lunch duration: 60 minutes

Food court: MLC Centre

Lunch habits

- Takeaway from food-court 1-2 times a week
- Used to buy lunch more often, but is starting to make better choices for herself and the environment
- Prefers to take food back to the office to use office kitchen utensils

Pains

- Concerned about personal environmental footprint
- Flabbergasted by family, friends, & coworkers who are not aware of their environmental responsibility to the planet's future
- Feels powerless about the abundance of waste in businesses, including the food vendors

Motivations

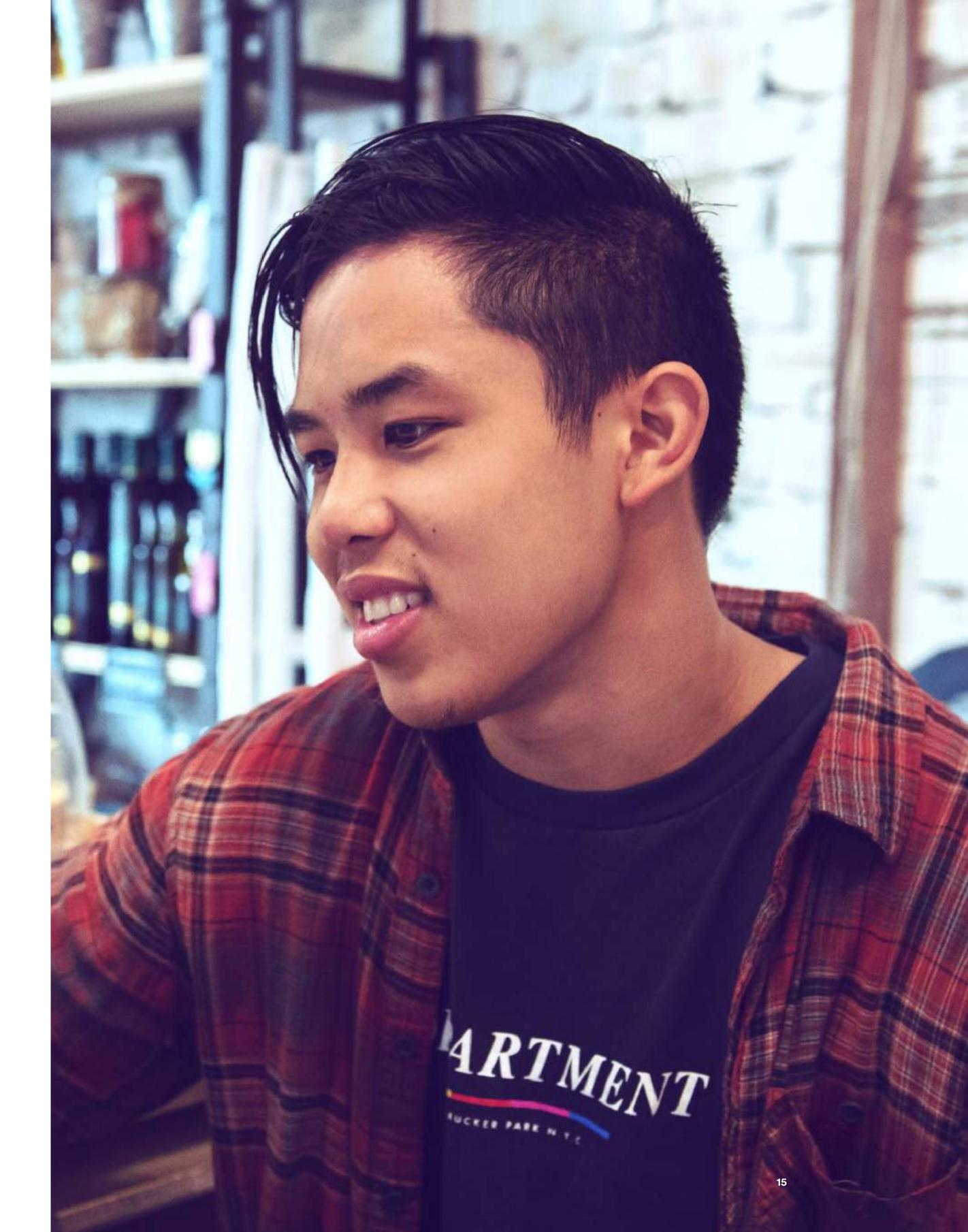
- Seeks new ways and ideas to reduce their environmental footprint further
- Wishes for others to be educated, and concerned about waste as well
- Hopes that their small part plays an accumulated impact on the environment

Environmental Meter

Willing to spend additional money for impact

"As long as it makes my life easier, I'd give anything a go."

Negotiable Neil



Negotiable Neil



Age: 26

Lunch duration: 30 minutes

Food court: Australian Square

Lunch habits

- Takeaway from food-court 4-5 times a week
- Has lunch at irregular times, often governed by meeting times
- Pre-orders food via an app to avoid waiting in line

Pains

- Crowded food-courts with long waiting lines
- Time-poor, lunch time is often shared with work meetings
- Unable to make decisions on food choices

Motivations

- Wants to maximise his lunch time to eat food as well as socialise
- Likes to stay on top of new tech, and utilises app service to streamline his life, (uber for transport, Hey You! for his morning coffee)
- Wants to be well perceived by his peers

Environmental Meter

Would only join a movement if it gives him enough benefits, such as convenience or a good social image

CURRENT JOURNEY MAP

Pre-Lunch

Notices Time.

It's 11:30am, Charlene is getting hungry.

She enquires what others in the office are thinking of getting.

Selection

Makes way to food court.

Charlene walks to the nearest food-court to check out the two food vendors that serve healthy food.

Payment

Taps to pay.

Charlene pays via her
NFC-chipped bank card,
and also gets her
frequent customer loyalty
card marked by the
vendor.

Consumption

Returns to office to utilise metal utensils.

Charlene refuses the offered plastic spork and serviette pack with her meal, opting to use the metal utensils when she gets back to the office.

Disposal

Washes and keeps food container.

Charlene decides to wash her plastic food container for reuse. She tries not to get annoyed that the office bins contain incorrectly disposed of waste.



"I kinda already know what I want to get." "I love being a regular - it's nice when the vendor remembers you."



"I can't get what everyone else is getting - I prefer something healthy, plus I am a vegetarian."

"The popular food places tend to have longer lines."

"Ever since ABC's 'War on Waste', I'm noticing the unnecessary plastic packing everywhere!"

"I hate how half of the office does not know which bin to use..."

Opportunities

Help users make food selections

Help users avoid waiting and save time

Help users reduce and refuse single use waste

Help users be educated, and educated others



What does this mean?

THIS MEANS...

City based workers prioritise time and convenience during lunch.

THIS MEANS...

Most city based workers are increasingly aware of waste, but not all are educated on what to do.

THIS MEANS...

City based workers who are conscious of waste are invested in quantifying the impact of their seemingly small personal efforts.

MINIMUM VIABLE EXPERIENCE

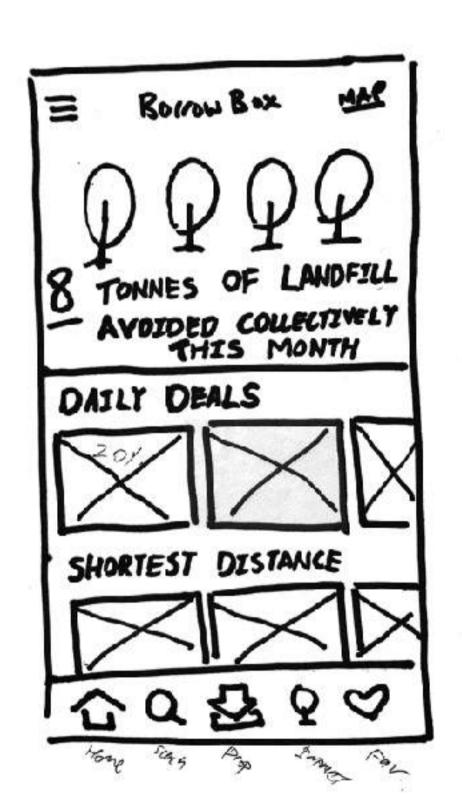
There are 3 MVEs that the user research has revealed as must have digital experiences.

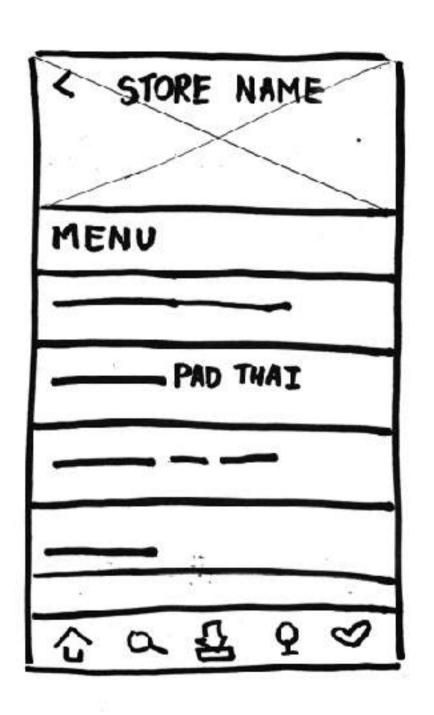
- 1. CFPs need to be able to search and find food seamlessly and easily
- 2. CFPs need to be able to locate and navigate to drop-off points in an easy maps system
- 3. CFPs need to visualise and appreciate the impact their participation of the service is having

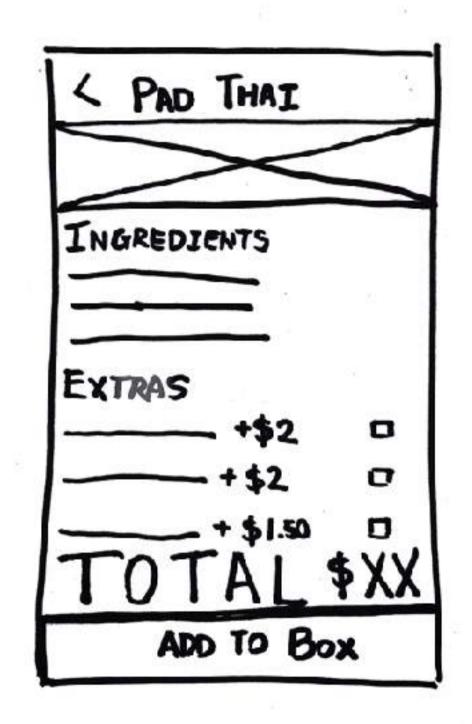


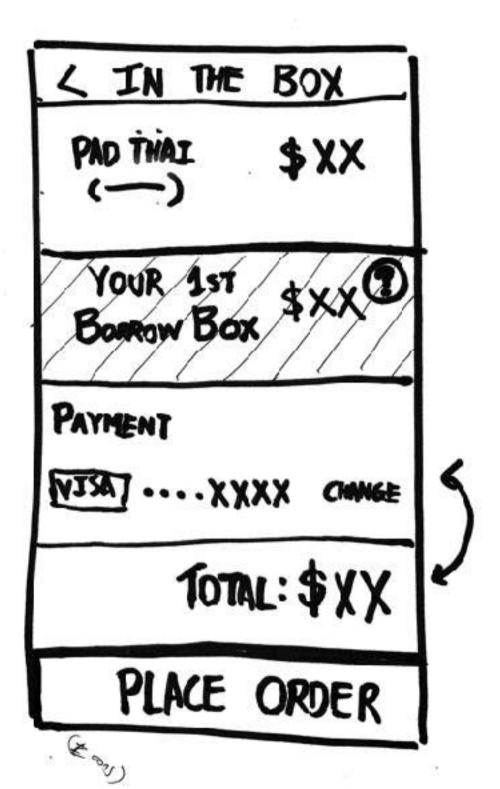
The Prototype

TEST 1: PAPER PROTOTYPE



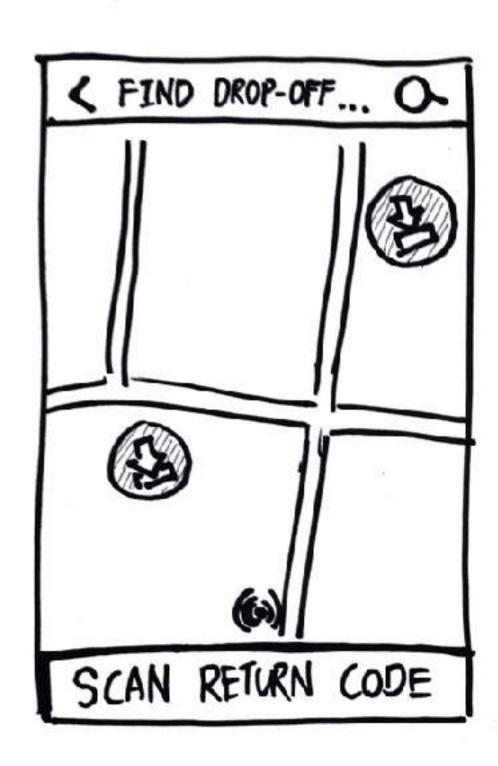




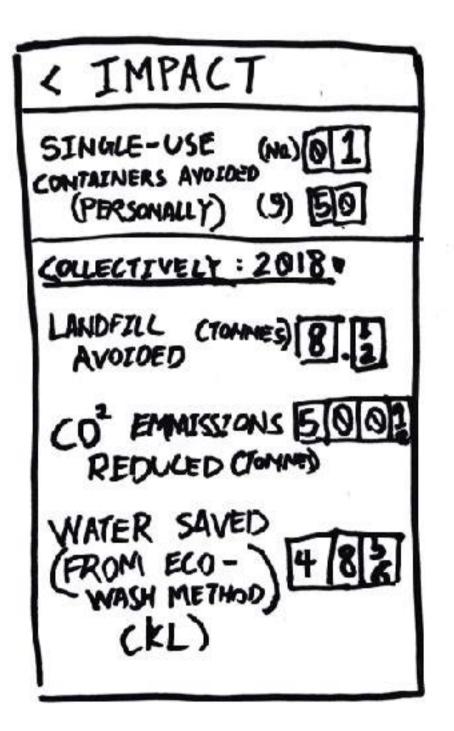


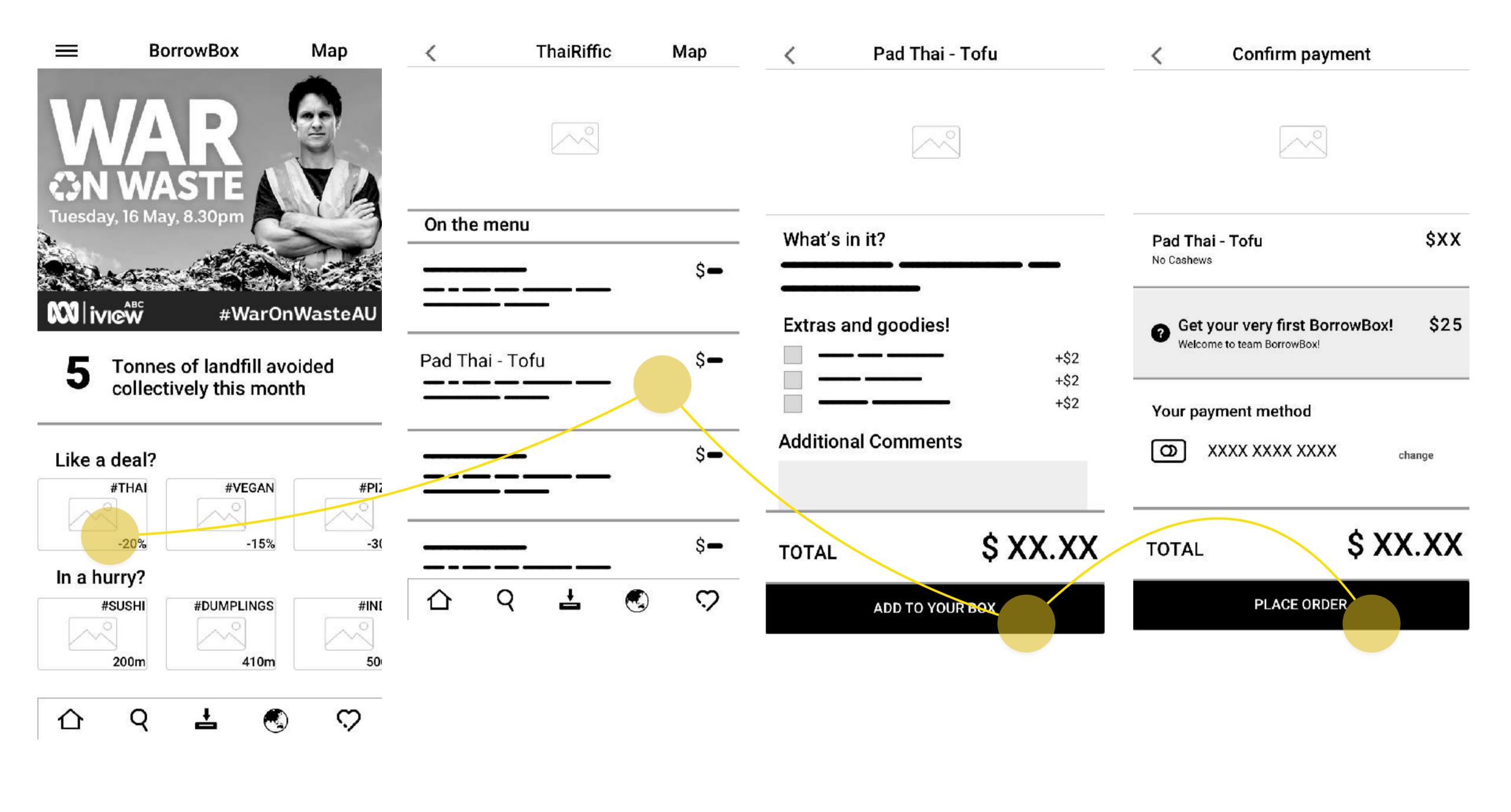
TEST 1: PAPER PROTOTYPE

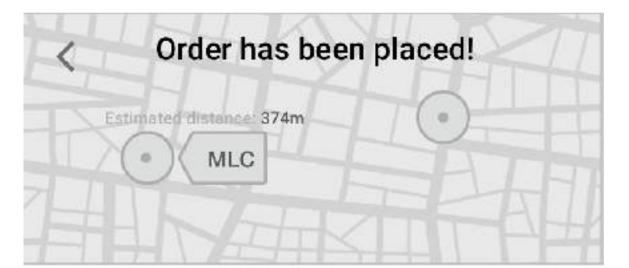












Your order has been placed and is being prepared!

It should be ready in:

5 min

A friend is picking up my food

Contact store











Return your box

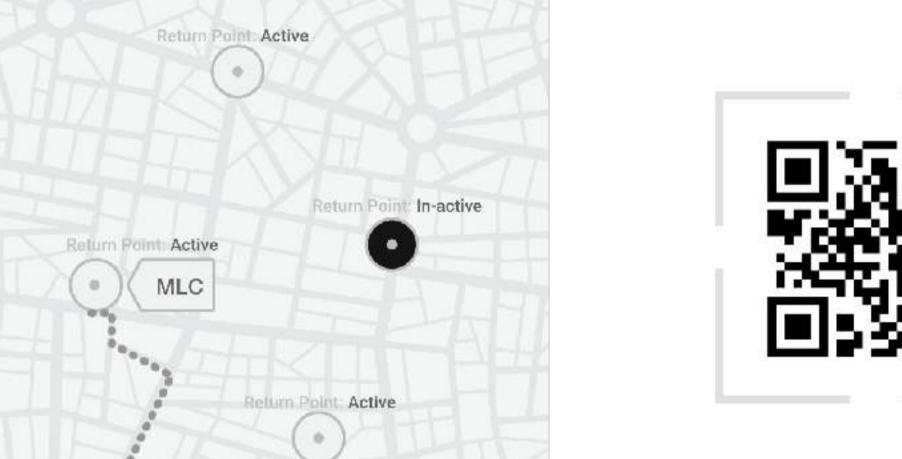
SCAN CODE



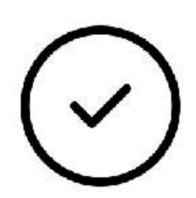
Scan return code



Scan return code



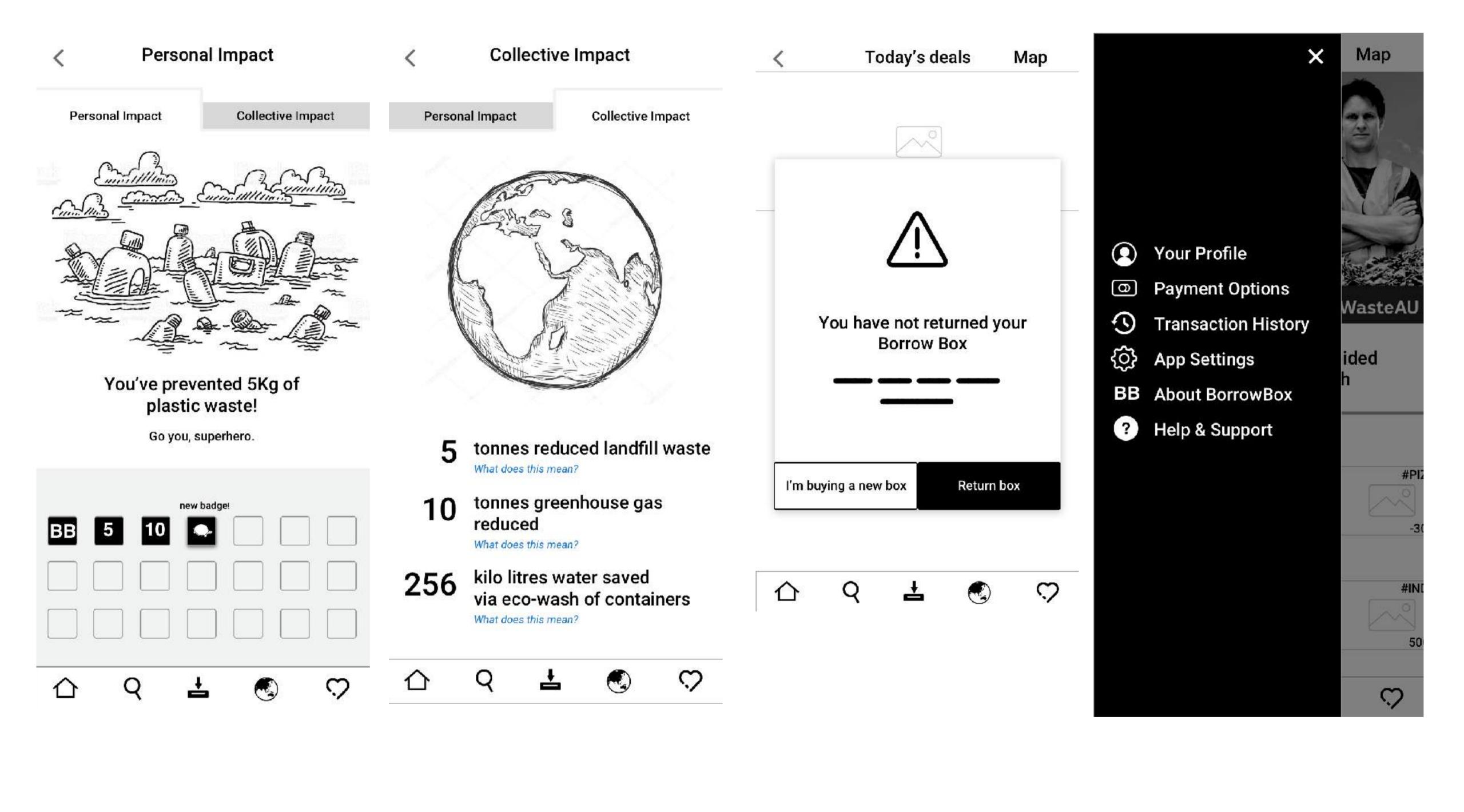
Place code within box



Your box has been returned



You've just unlocked a new badge!





Like a deal?







In a hurry?













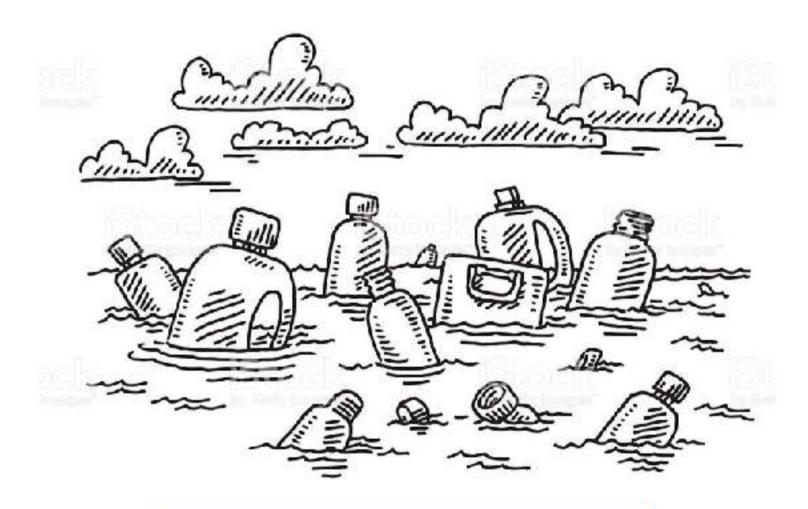




Personal Impact

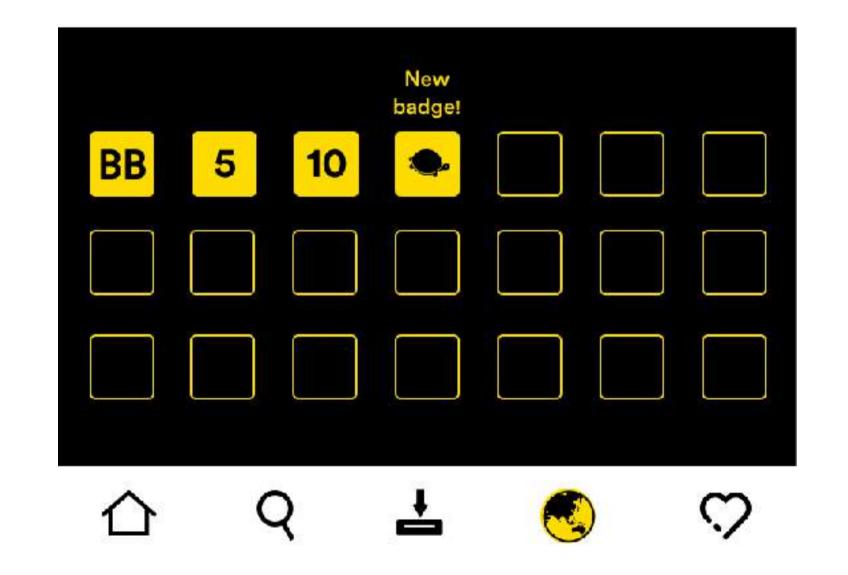
Personal Impact

Collective Impact



You've prevented 5kg of plastic waste!

Go you, superhero.



Summary

UX - DESIRABILITY MEETS FUNCTIONALITY

We Need to:

- 1. Help them search and find food seamlessly and easily
- 2. Help them locate and navigate to drop-off points in an easy maps system
- 3. & help them visualise and appreciate their impact
- Neil wants to make an impact, but needs a useful and easy system
- Charlene needs a BorrowBox, and wants Neil to get one too.

ALSO...

Don't forget the vendor!







Lack of space in kitchen and storage for additional inventory

Already managing too many seperate tablets/devices for ordering systems

10% of current customers already are making sustainable choices: re-usable coffee cups, rejecting plastic cutlery and straws

insight: size and storage of box

insight: simple system for vendors to receive and verify orders

insight: Desirable!

Thank you!



Appendix



How Might We

A collection of How Might We were used during ideation.

This was done to ensure I will have covered all the many different angles of the problem.

HOW MIGHT WE...

Ensure that Borrow Box will provide service that enhances time and convenience of the lunch time patron to suit their basic lunch time needs?

Educate and empower users to lead themselves and others into a more sustainable lifestyle?

Help patrons visualise their impact while using BorrowBox to increase their engagement and evangelism?

Encourage city food-court patrons to adopt a more sustainable habit during their take-away lunch time routine?

Design a service that encourages the adoption of reusable food containers that will reduce lunch time waste using food ordering?

Connect city food-court patrons to food vendor options that reduce their waste better?

Show customers their direct environmental impact from using borrow box?

Ensure the on-boarding of BorrowBox and how it's system works is seamless and simple?



Customer Journeys

CURRENT JOURNEY MAP

Pre-Lunch

Selection

Payment Consumption

Disposal

Notices Time.

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"Ever since ABC's 'War on Waste', I'm noticing the unnecessary plastic packing everywhere!"

"I hate how half of the office does not know which bin to use..."

Opportunities

Help users make food selections

Help users avoid waiting and save time

Help users reduce and refuse single use waste

Help users be educated, and educated others

Results



USABILITY TESTING

A	В	С	D	E	F	G	Н	1	a.	К	8
PHASE;SCREEN	MAIN SCREEN	VENDOR SCREEN	FOOD SCREEN	PURCHASE SCREEN	CONFIRMATION SCREEN	MAP - VENDOR	MAP - DROP OFF POINTS	AR SCANNER	IMPACT	MENU DRAWER	Comments
	trees confusing text not clear, not clear that its a pickup system not a delivery system, icons need text - return and impact icon not inutitive, pictures should include logo of store, food type, and discount % - [PASS for next screen]	[PASS for making order], need	Ingredients to show vegetarian, nut allergies etc. Option to request for certain dietary req. comment section, expectation price chage shown as extras are chosen [PASS]	First order BorrowBox request makes sense, next purchase use "your borrowbox is ready" [PASS	Confirmation time is not clear, expecting a timer with countdown, address of store to make way to food, ability to share with friend if they are picking up on user's behalf, Reference code or Name here for vendor, Current afirmation text is inaffective - "I just want to eat", Might be more effective after returning box, ability to get back to map screen. Potential to use language to delight by being more conversational		expectation: dotted path when location selected with directions, ability to dicern available points and offline points, tap on location to reveal location, upon returning box encourage users to use the system again tomorrow	clear, eg: "scan code" - "scan	Needs a stronger personal connection, water saving is interesting and wants to know more (add external link), expectation for gamification and badges, use badges to educate and affirm of impact made, more conversational simpler language, more icons instead of words	rearrange history to follow payment details, expected help	
	Problem with map icon not making sense, find icon isn't assosciated with a gps map, suggest using same map for drop off and finding vendors, use search for non-map searches; [PASS for next screen]		Back button not working; [PASS for next screen]	Adjustable delayed orders "Pickup in [-] 5 [+]" , set timers and reminders; [PASS for next screen]			Aim to delight with language	More colloquail language			Add colour
to Nove e ht-courty	For "Hurry" selection - distance is less relevant of metric - time more important, unless "distance/close to you/what's around you?" then distance is relevant; [PASS for next screen]	; [PASS for next screen]	; [PASS for next screen]	; [PASS for next screen]					Swipe left to community section (seperate personal and community impact screen); Badges based on food vendors, metrics used are not clear - "what does 5 tonnes of CO2 look like to me?"		articulate impact to stems
	Big banner picture used to advertisement of vendors, or "what is happening?", articles Expectation to go to impact page if touching "8 tonnes of waste reduced" section; [PASS for next screen]	; [PASS for next screen]	; [PASS for next screen]	; [PASS for next screen]							
	"Search" icon - should be a map, impact icon use "BorrowBox" icon	to see the savings"; [PASS for	Fix back buttons; [PASS for next screen]	Fix/+add back button; [FAIL to nav	Fix back button						Borrow Box title in to expected/missing in
Mk3 - User 5	; [PASS for next screen]	; [PASS for next screen]	"Extra's and goodles" not clear; [PASS for next screen]	"X" missing, "how do I cancel?", show "S0" or FREE for box if returned, expected a pop up alert if box is not returned yet prompting users are aware before starting process up until	TOP BANNER picture is google		"Your box has been returned" popup,		Two pages for impact - silde right-left for personal and collective, more descriptions under "person" icon, explain wha "20 grams" means to user, Picture of landfil underground with "badges" interacting - potentially location based visuals	Transition expectation <-> into ^	Expect transitions to some screens, fan o

Ideation



MOODBOARD





https://cdn.shopify.com/s/files/1/0895/4522/p roducts/hHW7Qh78SwSEPWiA18Tn A5 MEMO BOTTLE CAMPAIGN 2 1500x1500.jpg? v=1524545975

Product design: slim to fit into the bag and looks nice. simplistic and aestethics





A5 Leather Sleeve + memobottle Pack



https://i.pinimg.com/564x/9c/66/68/9c66680db8246 99551acd29019cc82c7.jpg Home food waste bin: nordic aestethics



https://www.llwebstore.com/flippingbook/development/barangaroosouth/sustain ability2015/files/assets/common/page-substrates/page0020.jpg

Barangaroo food court: zero waste, everything is recycable including the food

Good design is environmentallyfriendly

Design makes an important contribution to the preservation of the environment. It conserves resources and minimises physical and visual pollution throughout the lifecycle of the product.







Design Your Own KeepCup Brew

KeepCup Brew is a design response to the premium specialty coffee consumer. Brew is a take away vessel that represents the highest aspirations for the liquid it contains. KeepCup Brew allows consumers to take the café experience with them.

Made from fully tempered, soda lime glass, KeepCup Brew is a vessel for people who are serious about their coffee ritual, as well as lovers of fine tea.

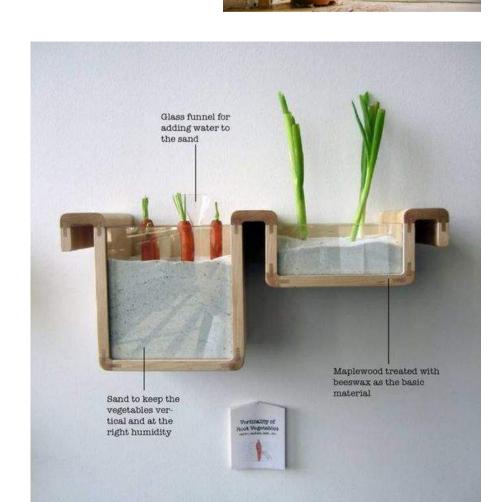
Due to the variation in the circumference of the blown glass, your lid is hand fitted to the glass and may not be compatible with other lids.



Original Brew LongPlay Clear



Personalisation

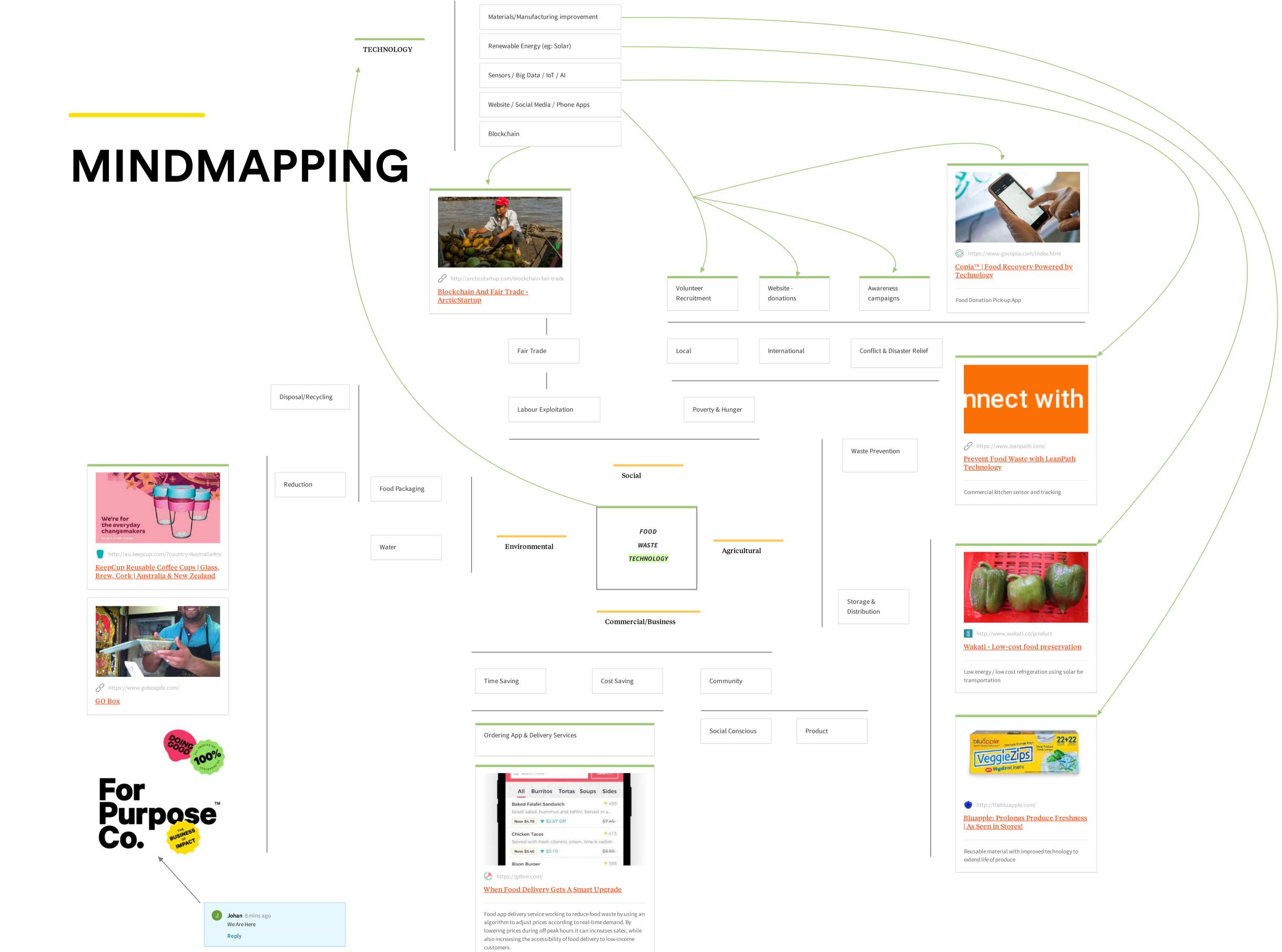




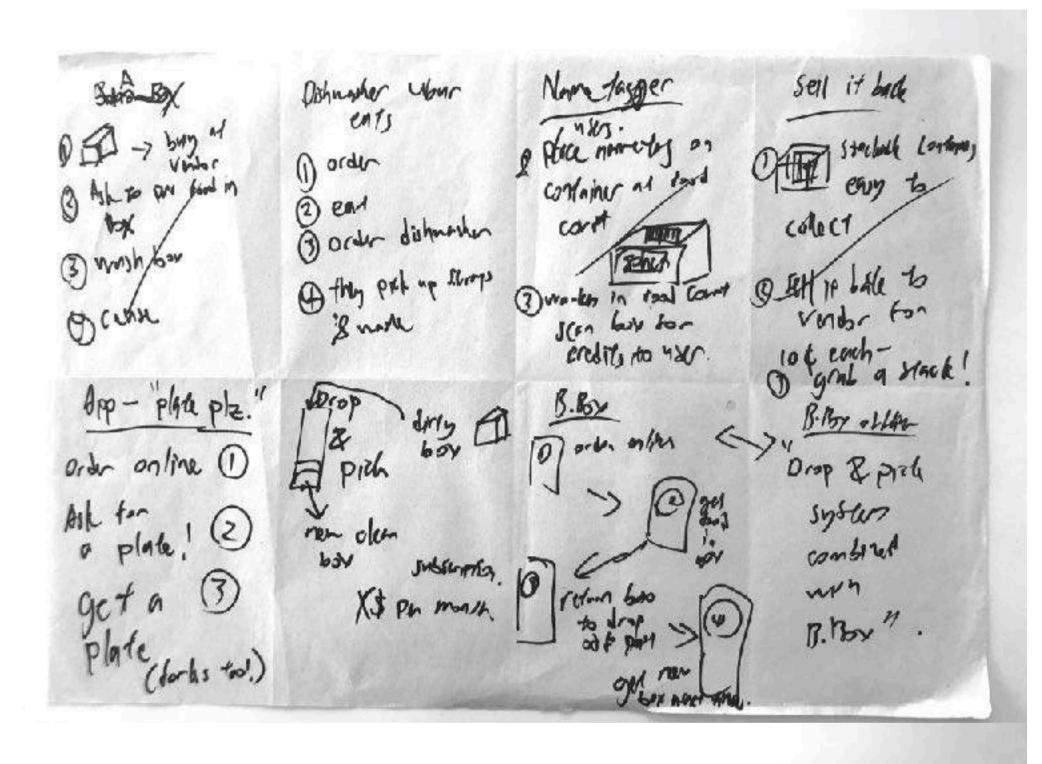
https://edge.alluremedia.com.au/uploads/busines sinsider/2016/01/Hey-You-App.jpg Office app: Convenience and On The Go

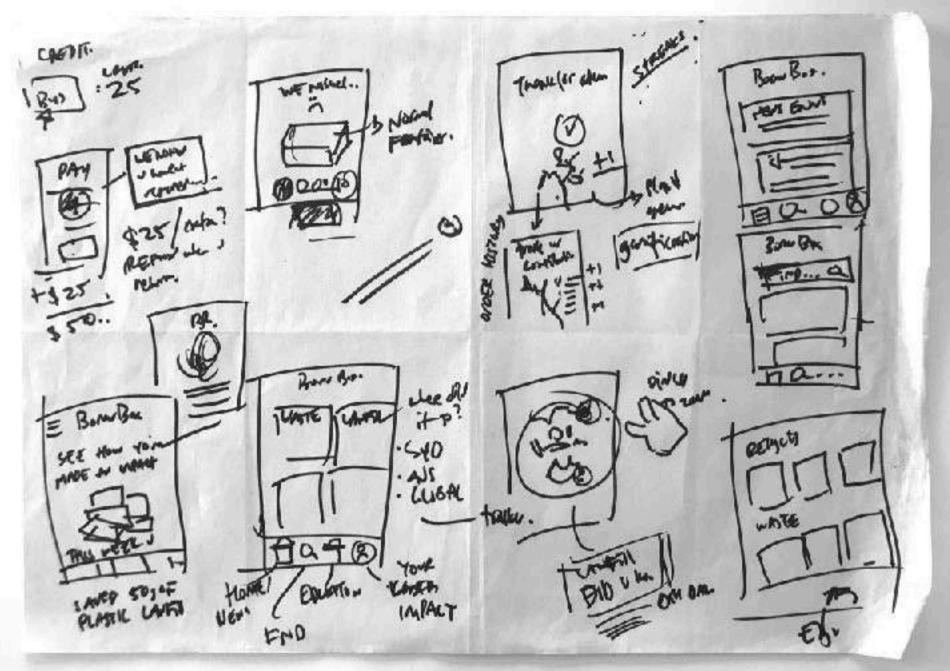


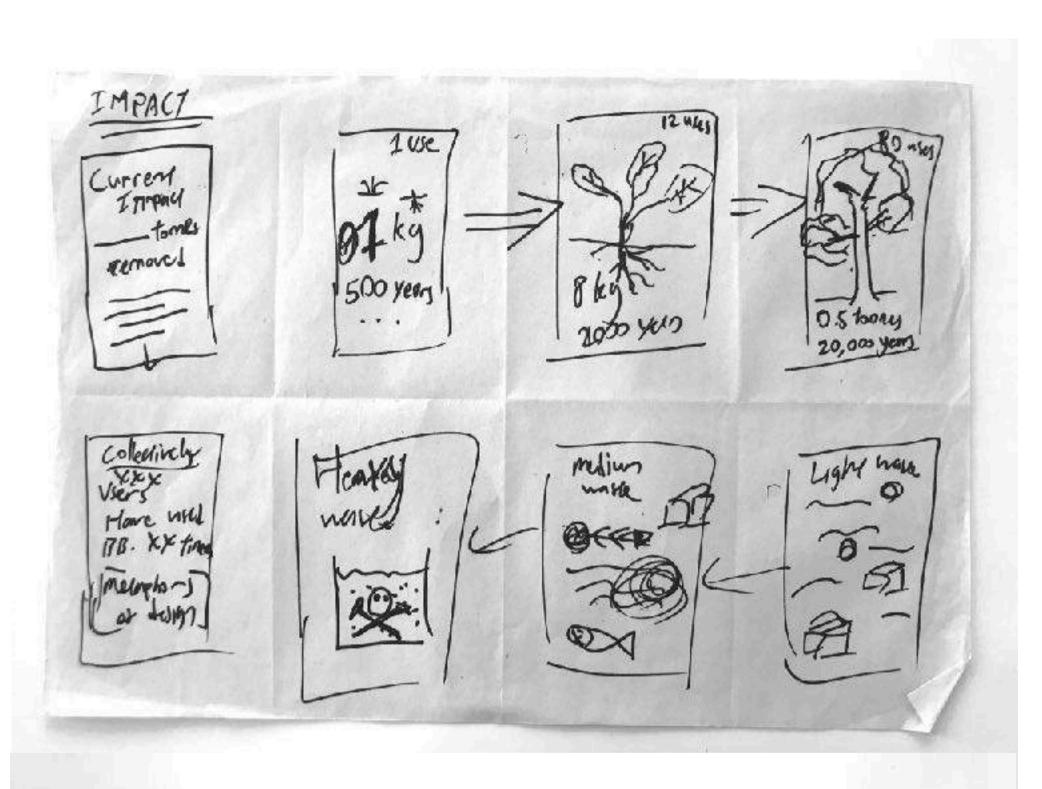
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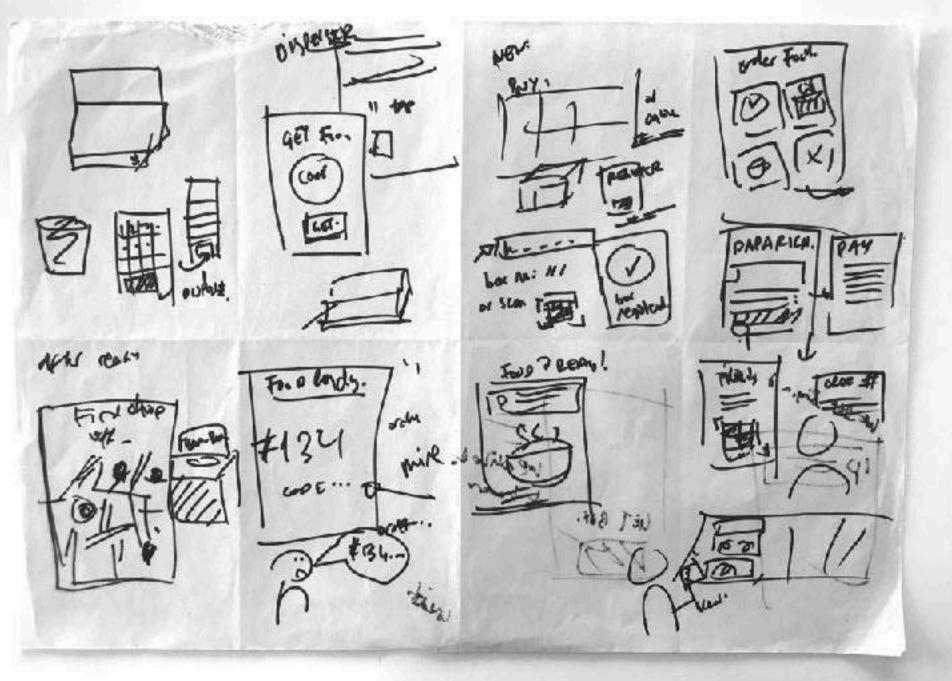


CRAZY 8'S

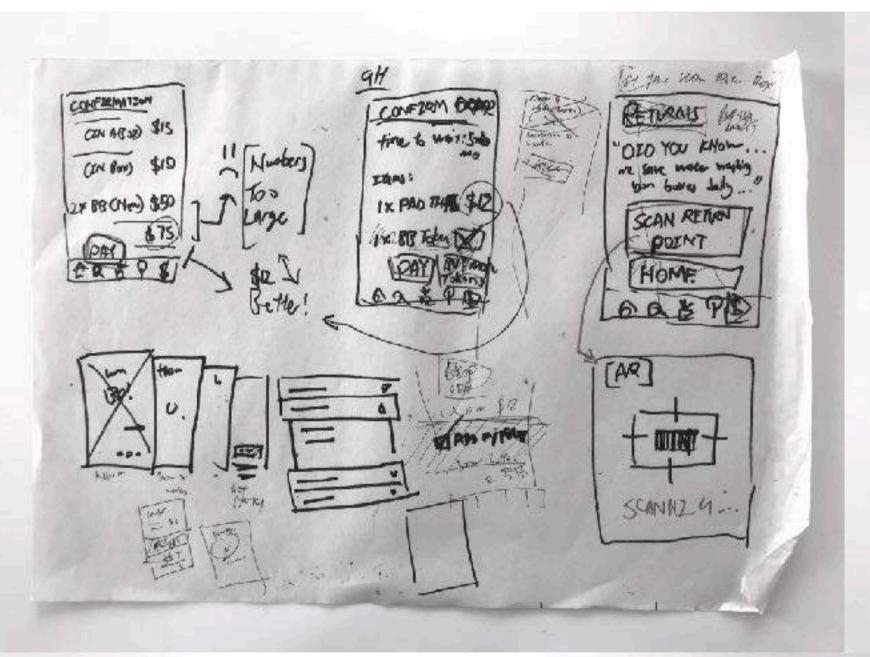


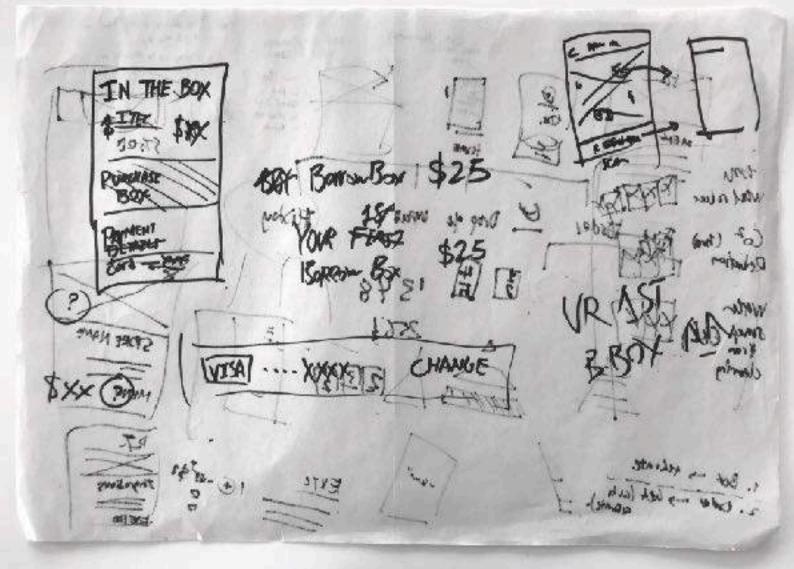


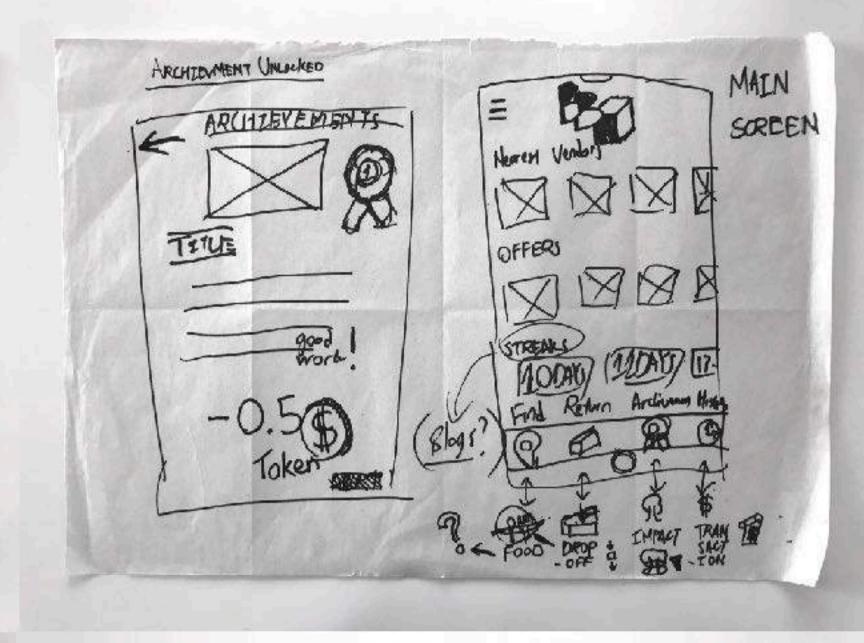


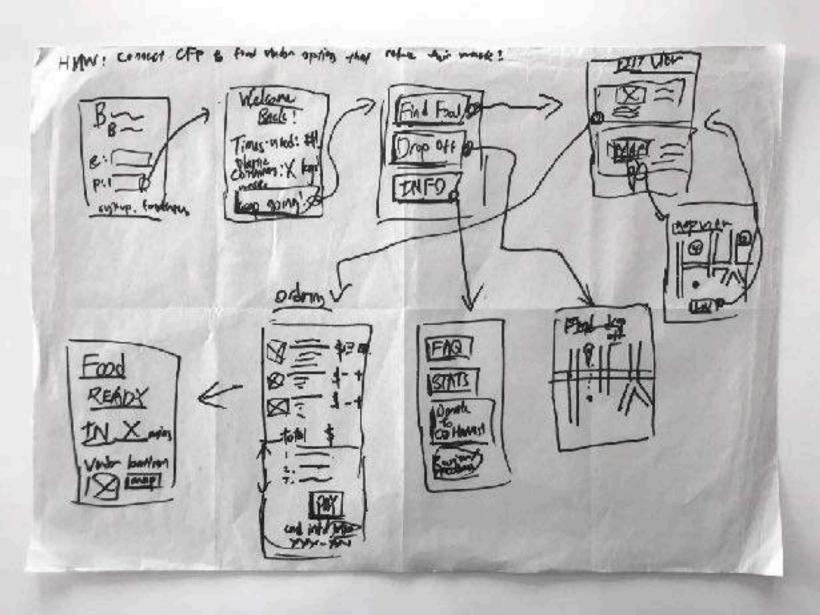


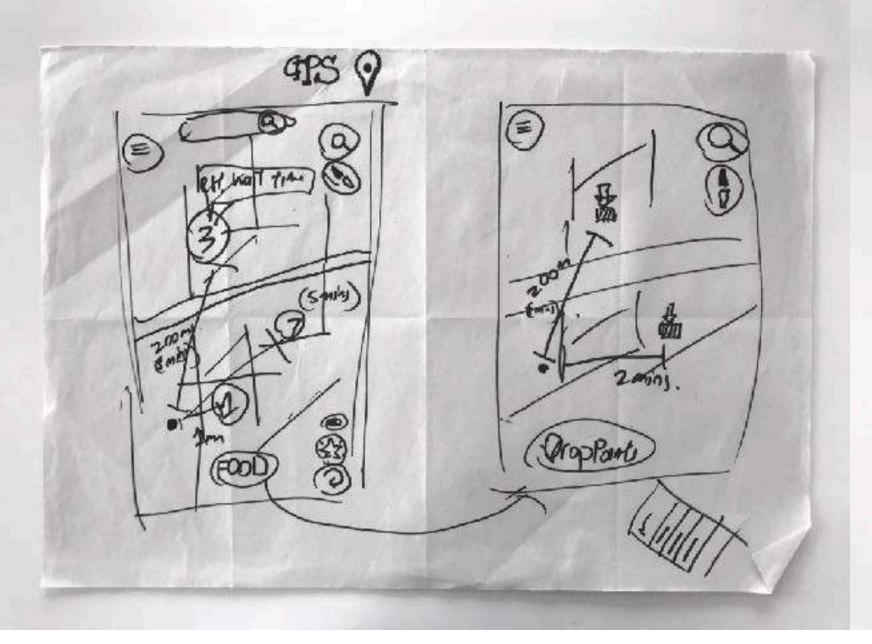
CRAZY 8'S





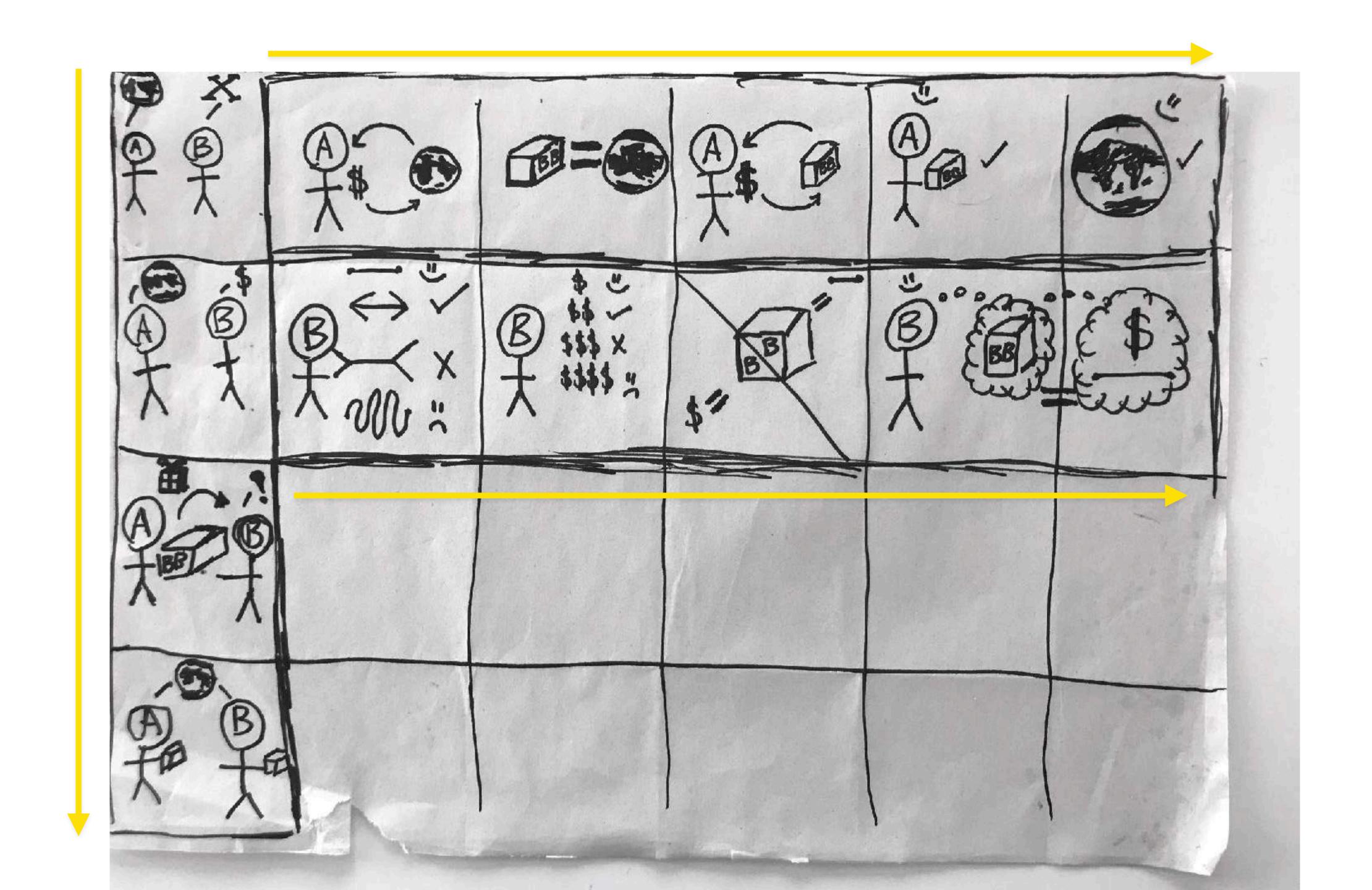








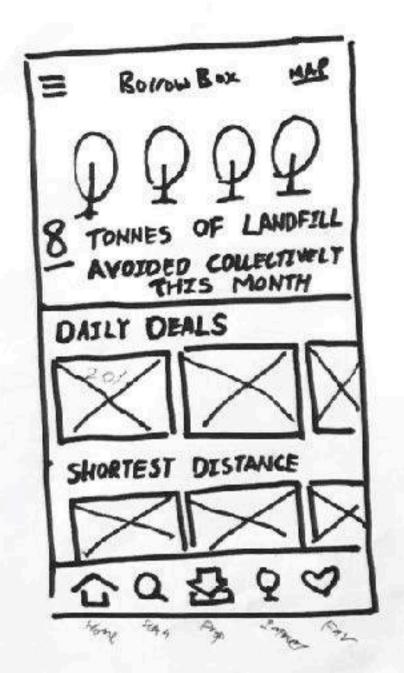
USER STORY: A/B TYPE PERSPECTIVES (HORIZON) & HOW TYPE A HELPS B GET ON THE SAME PAGE (VERTICAL)

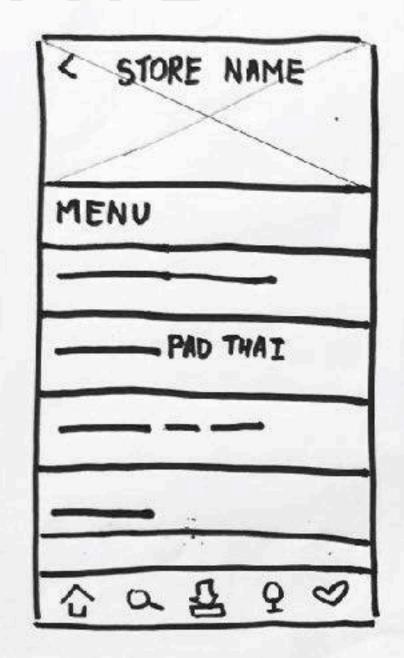


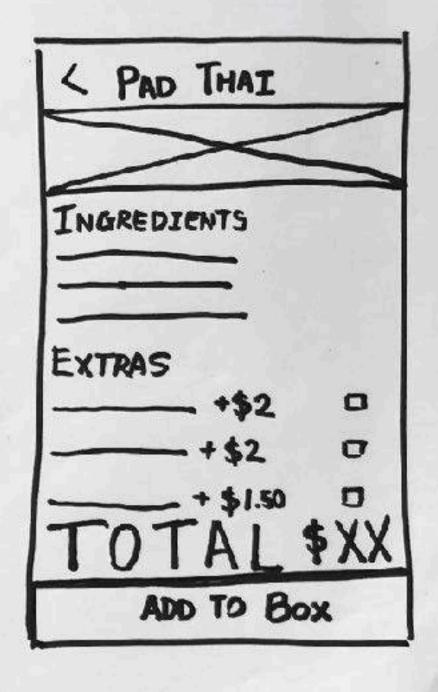


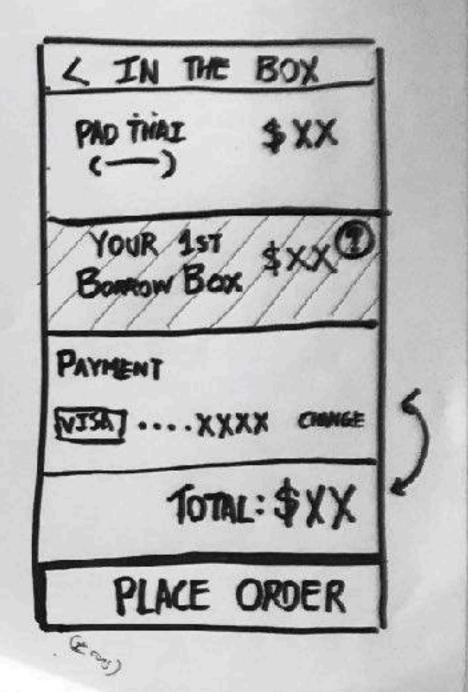
The Prototype

PAPER PROTOTYPE

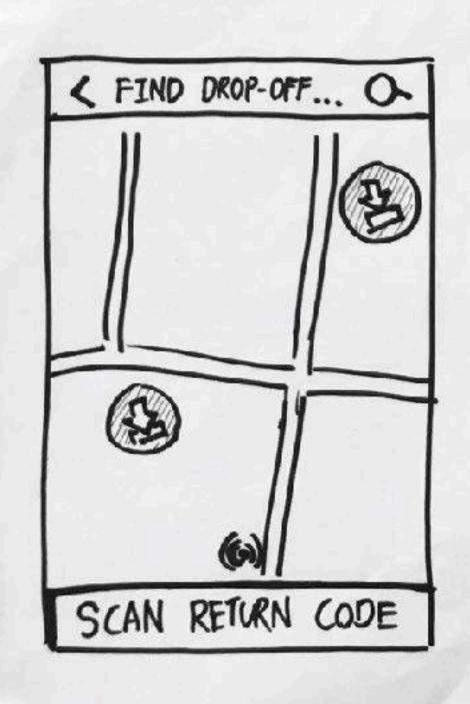




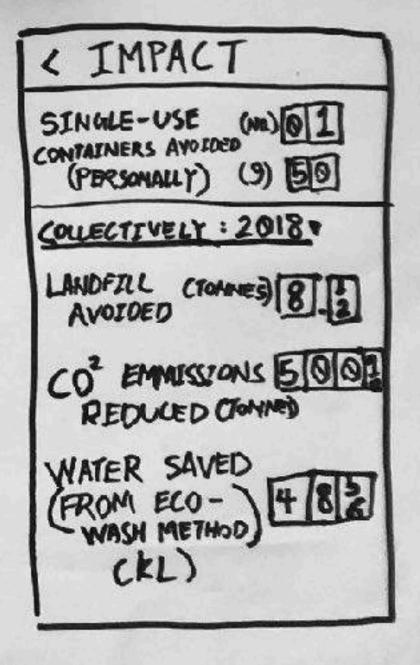




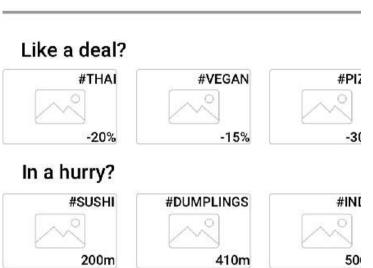


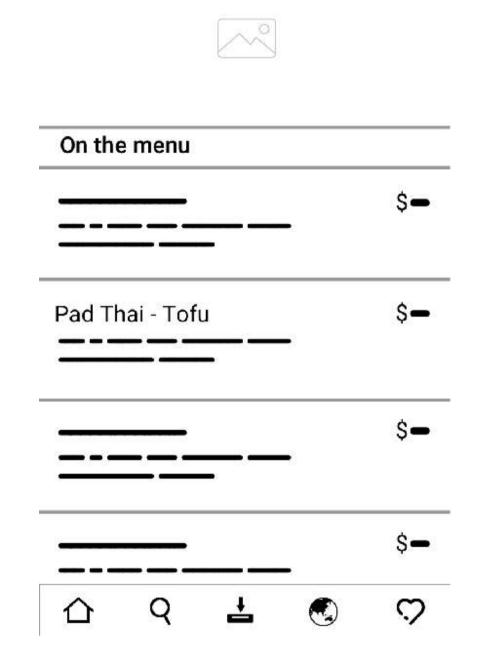






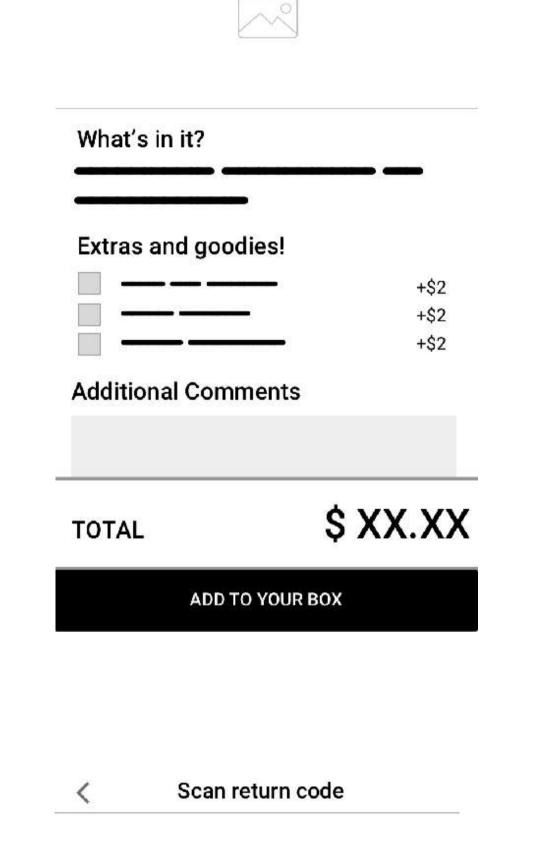




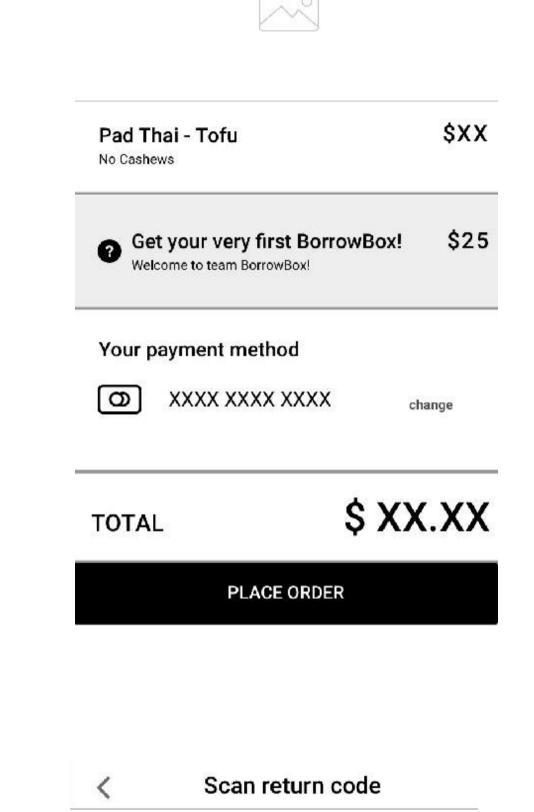


ThaiRiffic

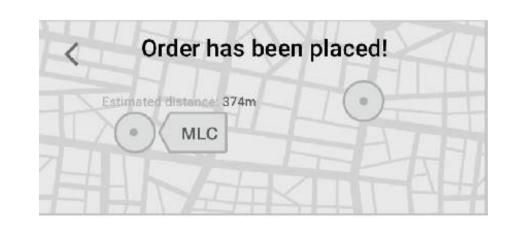
Map



Pad Thai - Tofu



Confirm payment

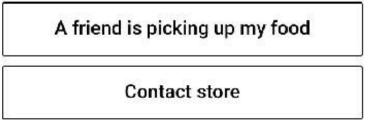


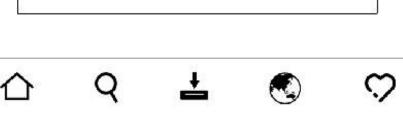
ů

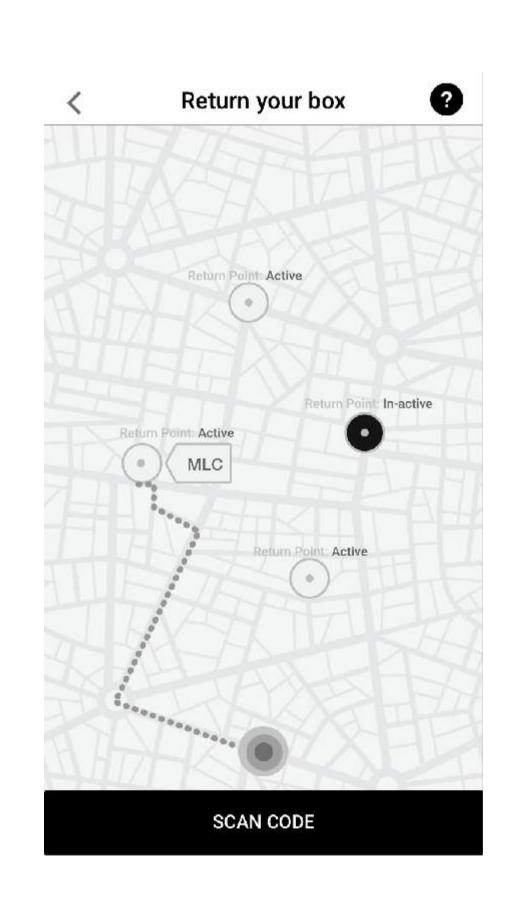
Your order has been placed and is being prepared!

It should be ready in:

5 min

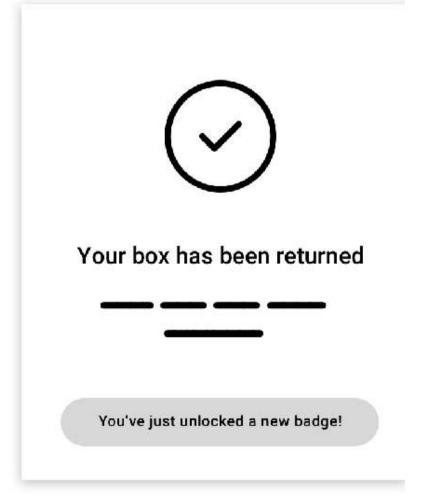


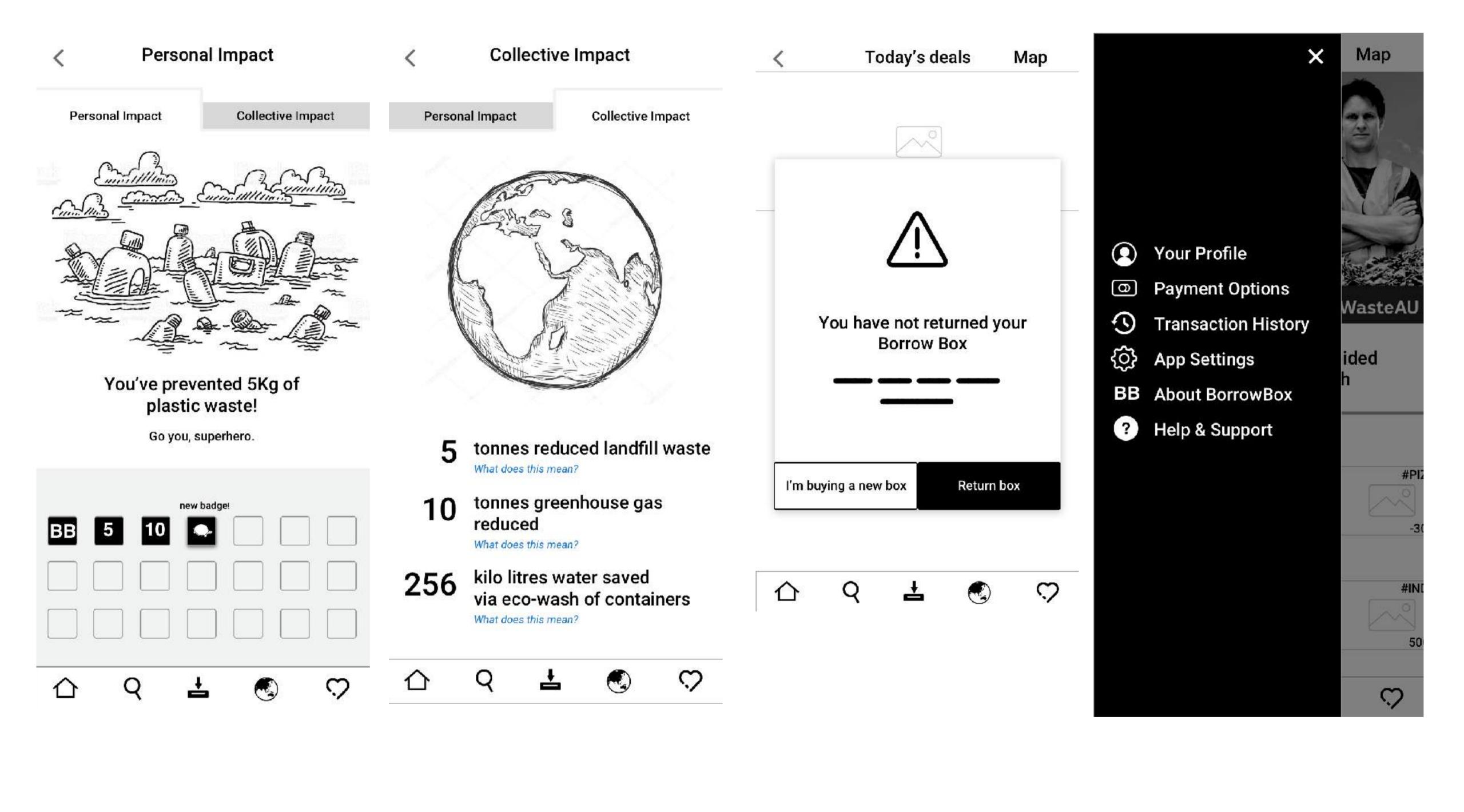






Place code within box







Like a deal?







In a hurry?













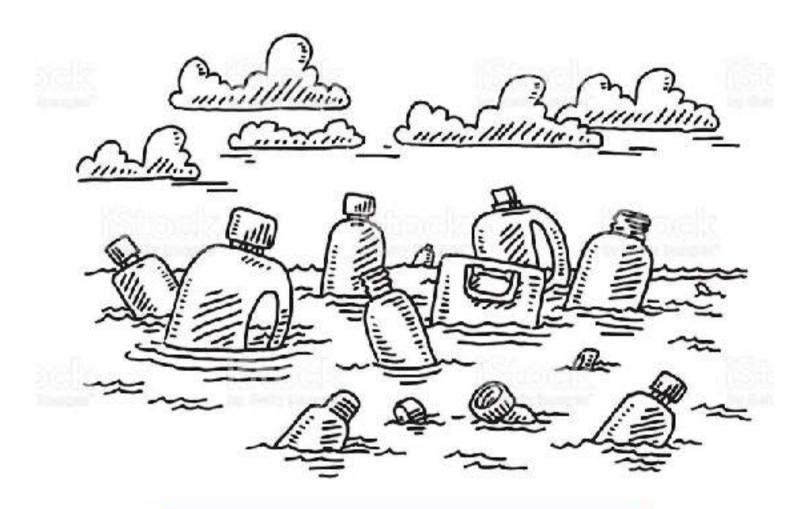




Personal Impact

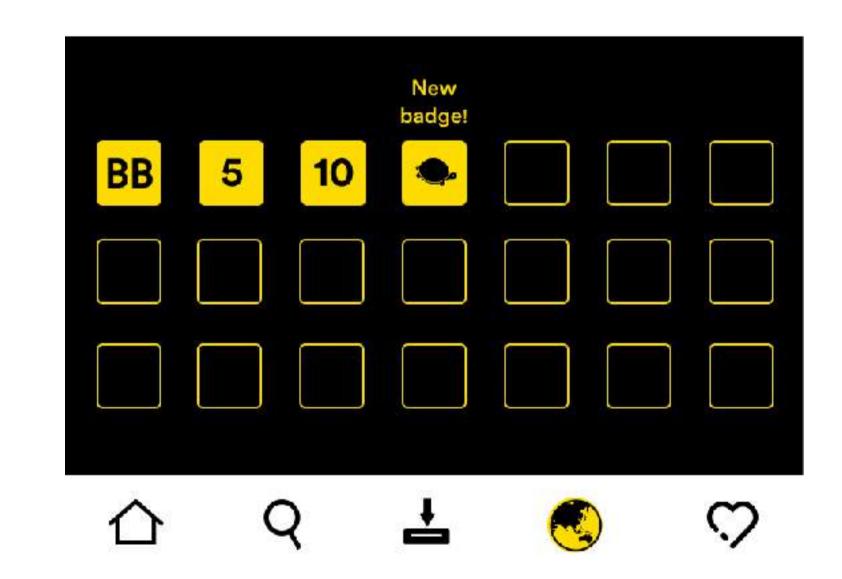
Personal Impact

Collective Impact



You've prevented 5kg of plastic waste!

Go you, superhero.



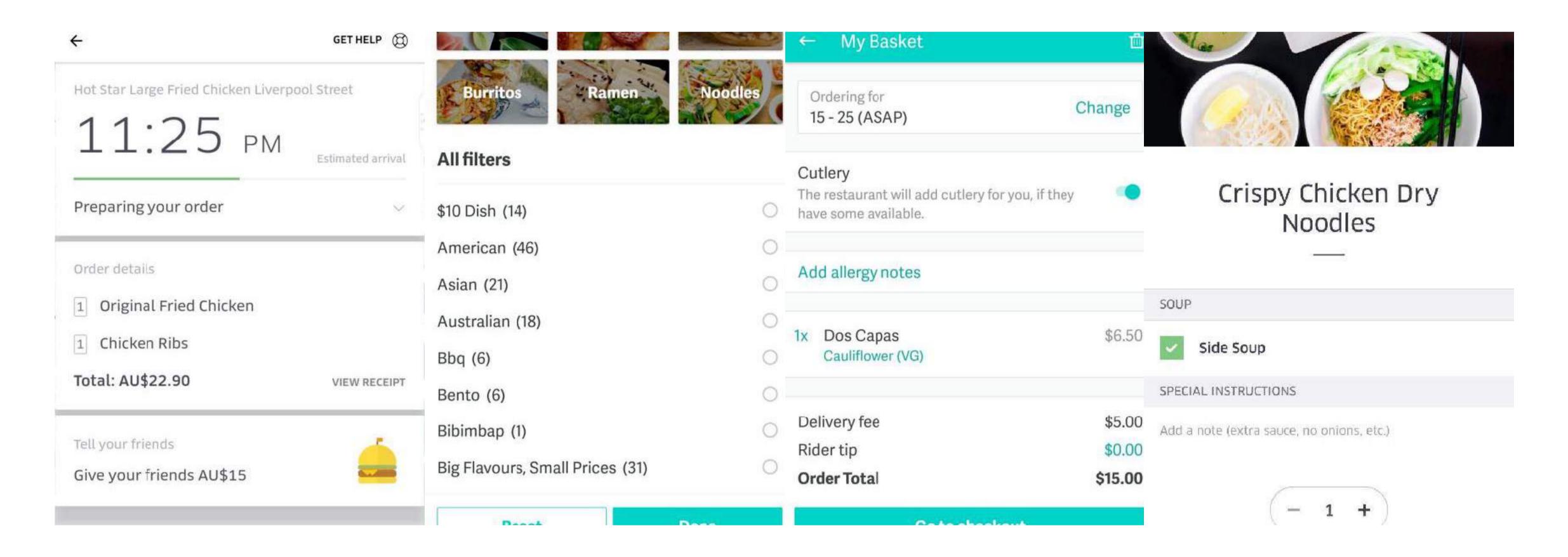
TRY IT YOURSELF

https://invis.io/GZOBX8NSH6C#/322798237_Main_Page



Competitor Analysis

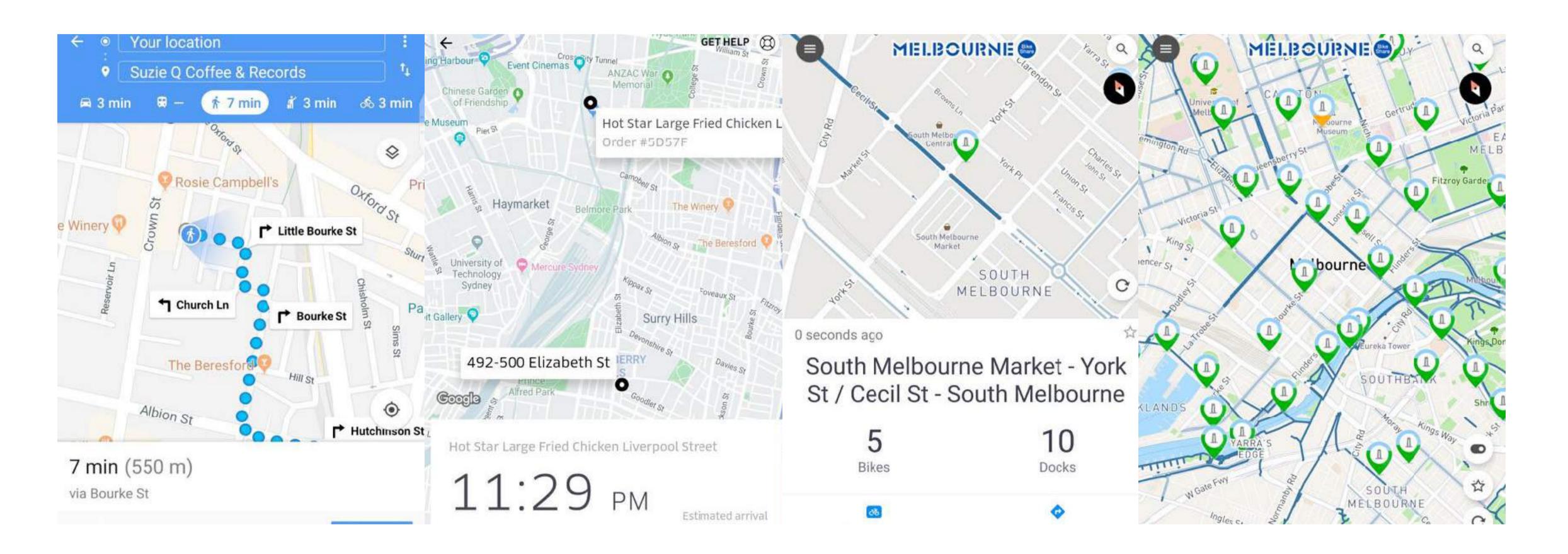
TREND: FOOD SELECTION SCREENS



Apps: Uber Eats, Foodora

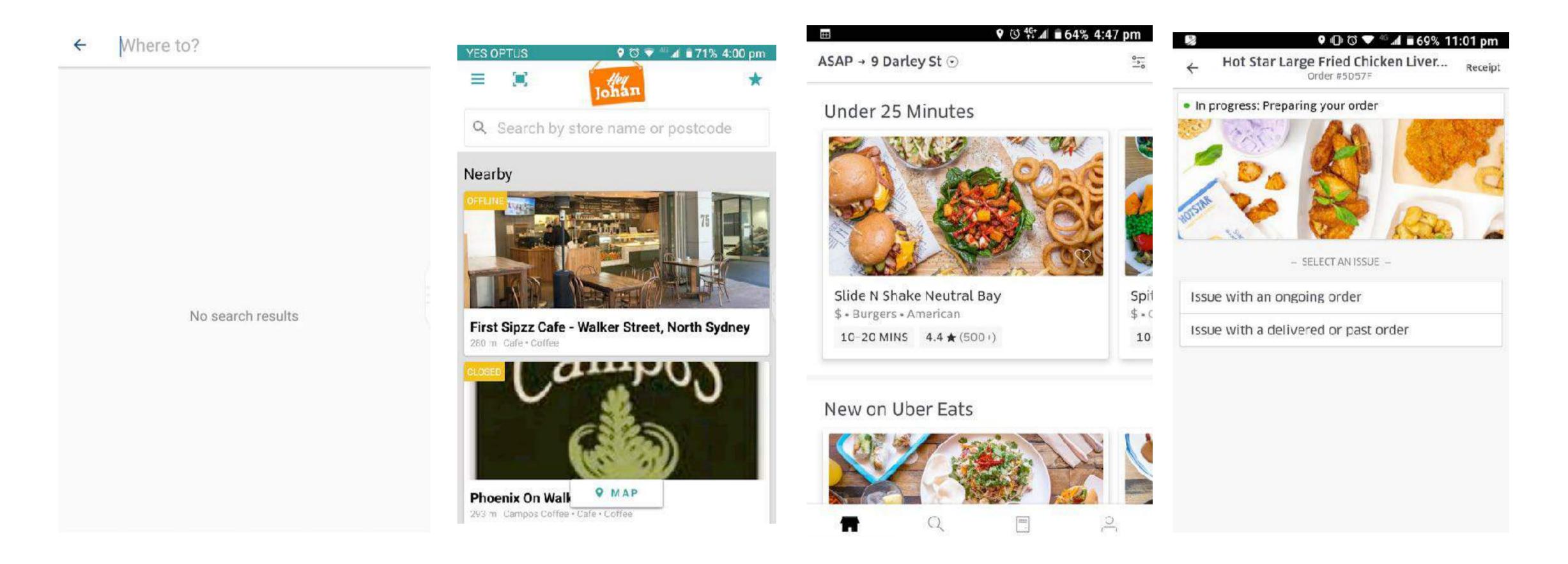
Design: Choices pane, Prices and Totals

TREND: NAVIGATION



Apps: Melbourne Bike Share, Google Maps, Uber Eats Design: Online/Offline drop off points, Start - Destination

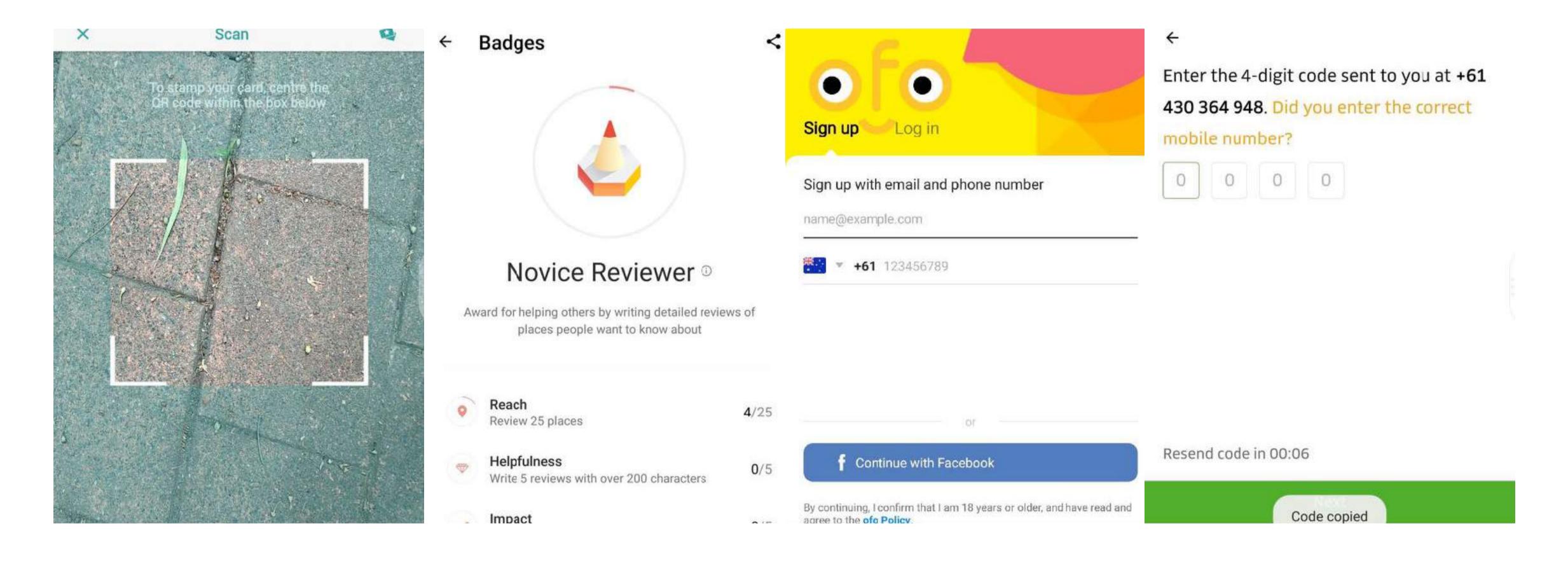
TREND: VENDOR SELECTION SCREENS



Apps: Uber Eats, Hey You!, Foodora

Design: Cards layout, Ratings on vendors, Deliver time approximation

TREND: MISC.



Apps: Hey You!, Google Maps, Ofo, Uber Eats

Design: AR Card Scanner, Badges, Sign-up Screens