



Digital Service Rehearsal Prototype

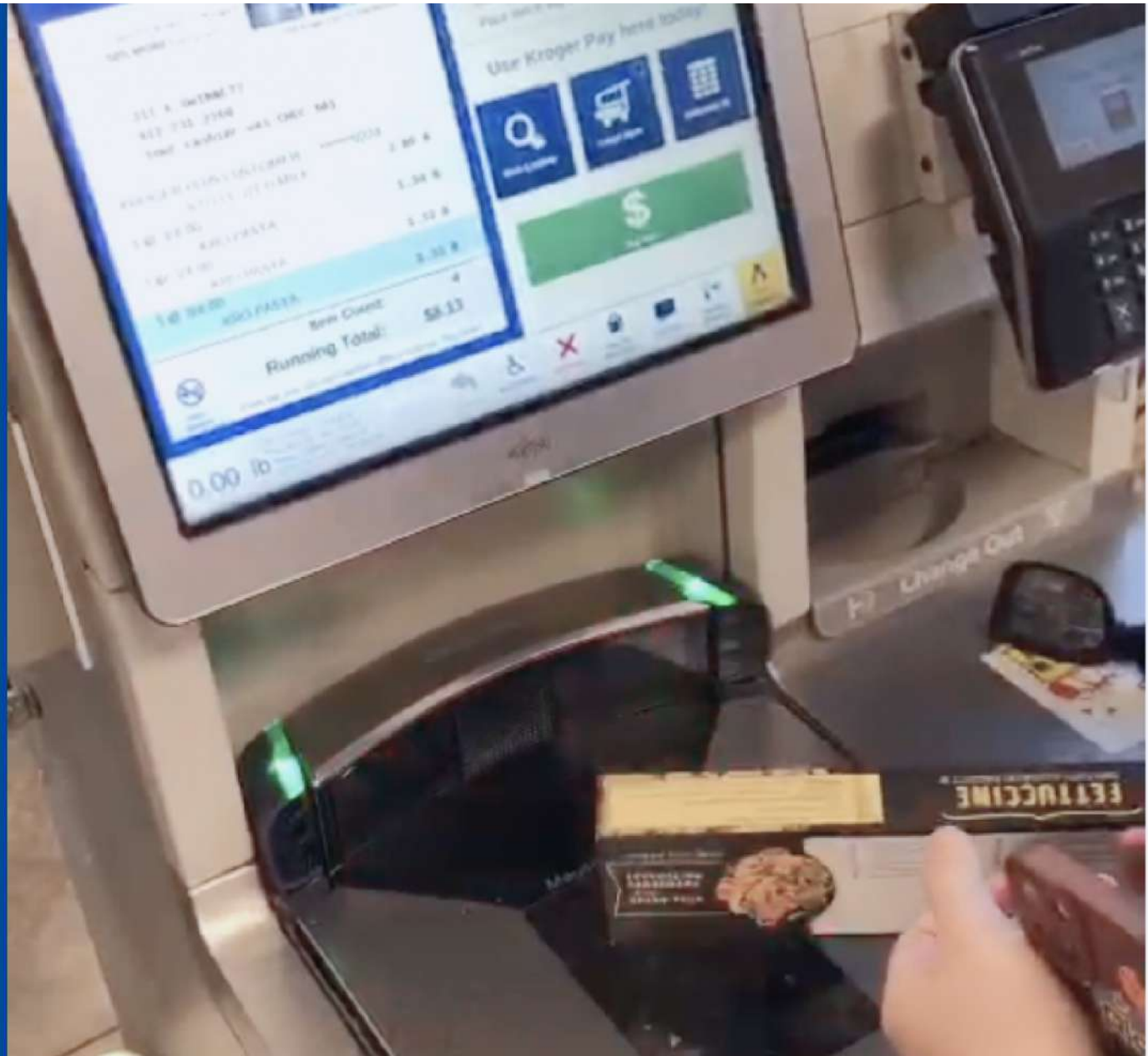
Self Check-out Kiosk Service

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Research & Preparation

We went to Kroger to observe the opportunities and record the kiosk and its interface.



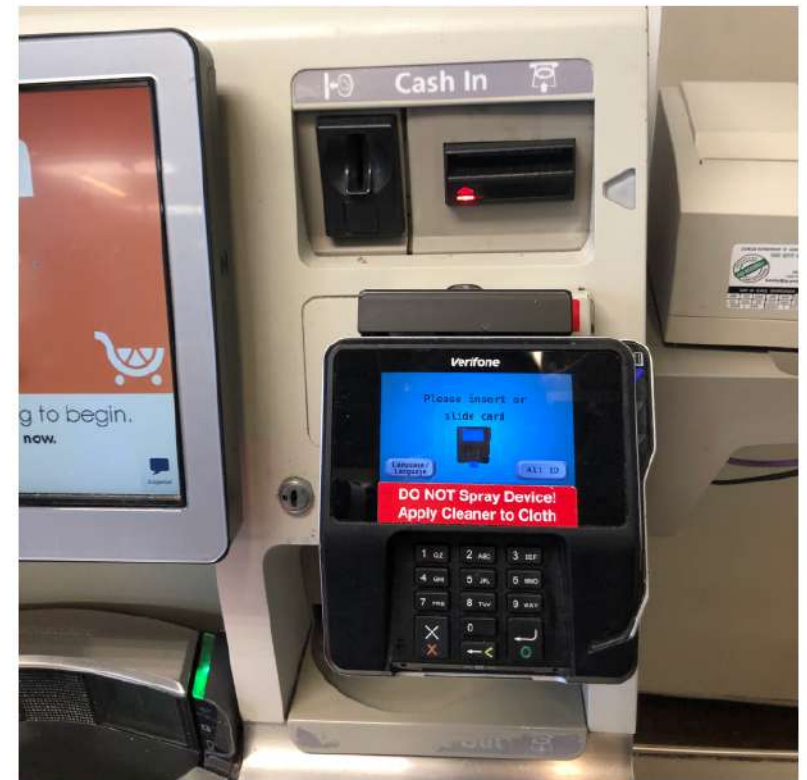
On-site Investigation

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Machine Structure Record

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User Journey Map

Phase of the journey

Actions

What does the user do?

Pain points

What problems does the user encounter?

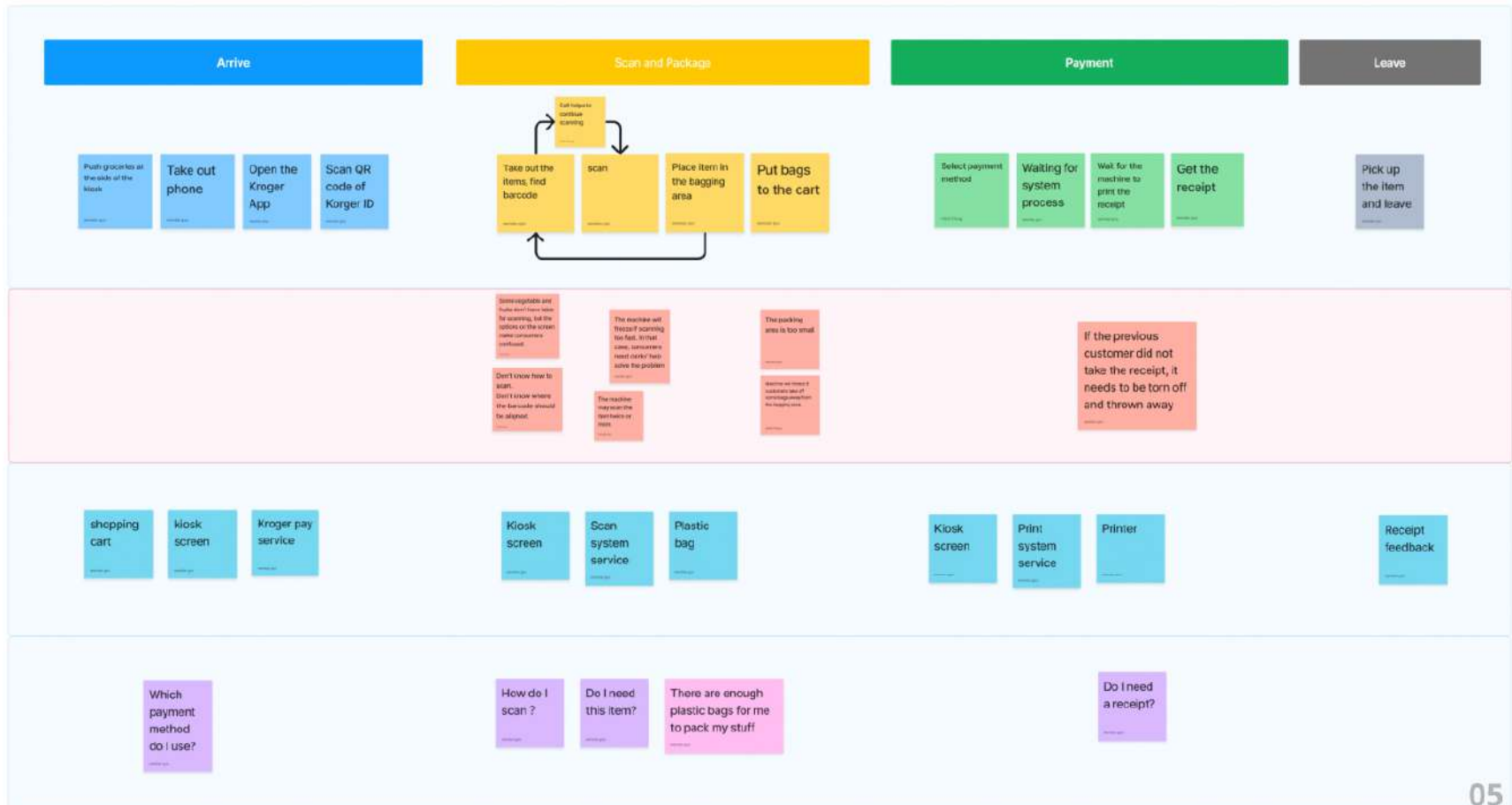
Touchpoints

What part of the product/service the user interacts with?

Thoughts

What is the user thinking?

● Gain ● Pain



Rehearsal Prototype

This rehearsal video includes problems we observed and experienced while checking out at the kiosk.



[HTTPS://WWW.YOUTUBE.COM/WATCH?V=GK53FOVSFFS](https://www.youtube.com/watch?v=GK53FOVSFFS)

Step 1: Arrive



The consumer arrives at the checkout kiosk with items and scanned her customer membership card.

Step 2: Scan

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The consumer picks up an item and starts scanning it in the scanning area with the barcode.

Step 3: Call Help

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The consumer does not know the name of an item, and as the item is a vegetable, there was no barcode on it, so she calls for assistance.

Step 4: Search Items

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The attendant comes over and helps the consumer with searching for the item.

Step 5: Call Help for Alcohol

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The consumer buys a bottle of wine, while scanning, the kiosk called the attendant automatically to check the consumer's ID card.

Step 6: Payment Process

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The consumer chooses to use a credit card to pay. The kiosk reminded her to insert or swipe the card on the side of the machine.

Step 7: Leave



The consumer takes the receipt and her purchasing items and leaves.

Physical Props

We created three parts of equipment: a scanning/weighting area, a touch screen, a pos machine, a receipt printer, and the sign of a number station.



Service Opportunity

During the prototyping and the research, we found some opportunities for improvement in the service.



Alcohol Purchasing

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Current Situation

As long as the consumer scans alcohol products, the kiosk machine will go directly to call the attendant for help. The consumer is required to wait mandatory.

Pain Points

1. The consumer might have to wait for the attendant for a long time since, normally, only one attendant manages all kiosks.
2. The waiting time increases when too many consumers call for help.
3. Some consumers' ages apparently don't need to check their ID cards. But, because of the fear of fines, attendant still checks their ID cards.

Alcohol Purchasing

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Opportunity

Eliminate the waiting time with ID scan and face recognition:

Equipping a camera on the kiosk can recognize the human face. The camera of scanning the barcode can identify the ID card.

Challenge

New technology and Avoid fines:
To update a new technology is hard work for a big company. If the technology is not progressive or designed comprehensively enough, it will be hard to avoid the offender.

Item Searching

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Current Situation

Some products, especially vegetables and fruits, do not have barcodes. Consumers may not know the product's exact name or check out under wrong items, so they need to call attendance for help.

Pain Points

1. The consumer might wait for the attendant for a long time since, normally, only one attendant manages all kiosks.
2. International consumers may not remember the name of a particular item when searching by name
3. You have to go through a large catalogue of images while searching an item by image
4. If the consumer calls for help with many items, other consumers might wait for longer time.

Opportunity

Eliminate the waiting time with camera scanning:

The kiosk has a camera, so consumers can put the item in a certain area for camera to recognize it.

Challenge

New Technology:

1. The technology might recognize the item wrongly.
2. The old machine might not match with the new technology so it will be much expensive if it need to update the entire system.