Reducing Food Waste at Coop Mega

in the fresh produce aisle

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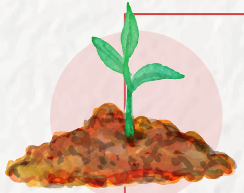
Identifying the problem space

Too Good to Go Self-checkout

Automating the customer interaction with the too good to go process while promoting the service

Problem space

The bags are picked up at the end of the day when workers are too busy + customers may be unaware of the service



Expiration date bar code

A bar code that connects to a database system that contains expiration date information

Problem space

Expired goods are manually rotated which takes time and suffers from human error

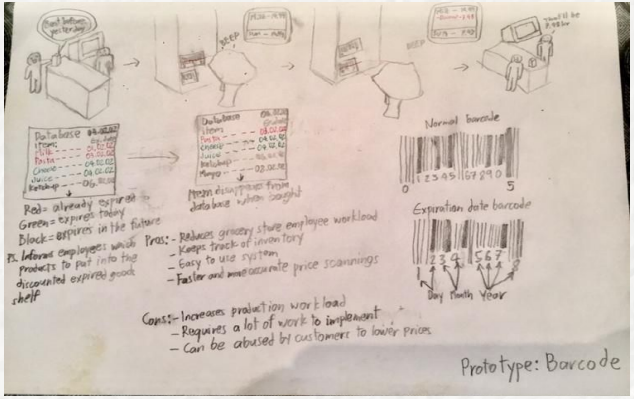
Lost items container

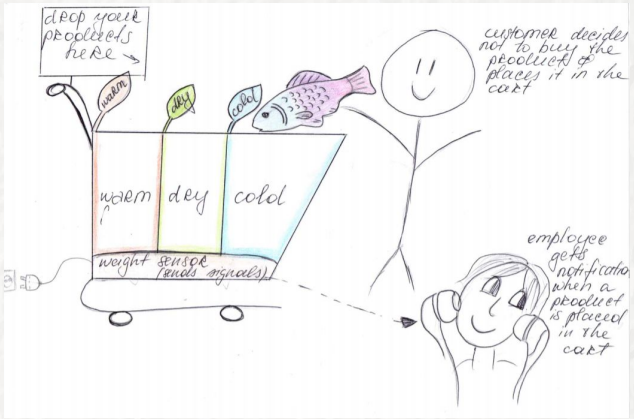
When customers leave food at random places that they didn't want after all - a container for such 'lost' items

Problem space

Customers misplacing goods which can lead to them being spoiled and/or expired

Sketches & Storyboard



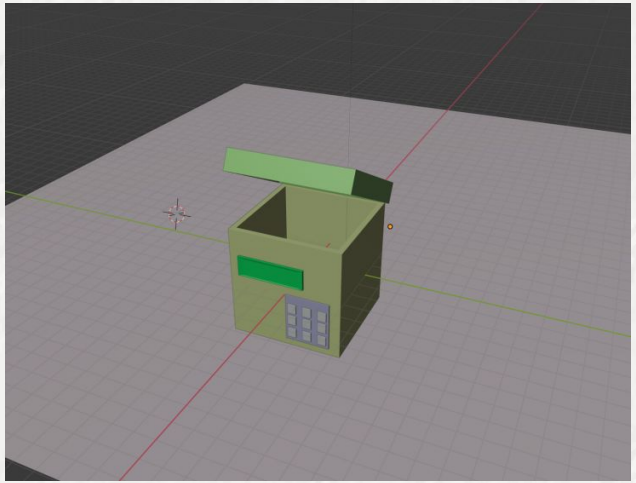


Design concept

Theme: self service

Form: parcel box

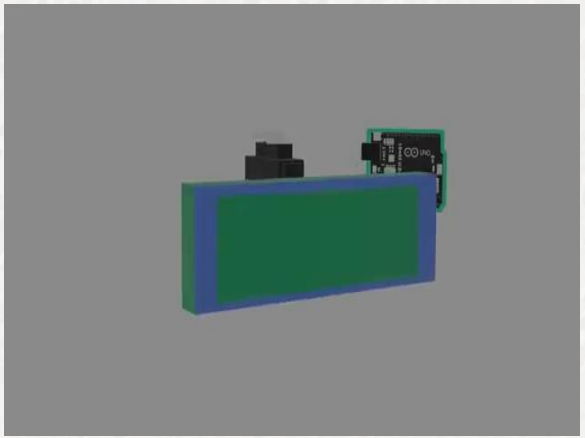
Early prototype



Prototype

Visualising the concept

Arduino parts



Current working prototype

Evaluation

Low fidelity A/B testing

Already did this with storyboard and sketches of different versions of the self service box

Usability testing

Ask the user to perform certain task on our physical prototype

Next Iteration

- Illustrating the bigger concept
  - Compartments?
- Physical and interactive to use in evaluations with users
  - Ordered parts online
- Too Good To Go promotion/food waste information on the prototype?
- Maybe take inspiration from a previous project Spade (book pick-up at library)?

Technical challenges

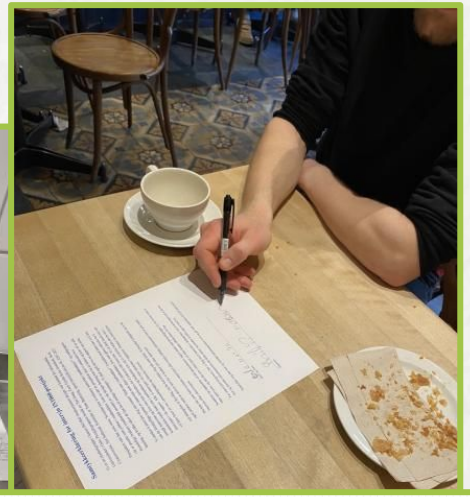
Learning new tools like blender

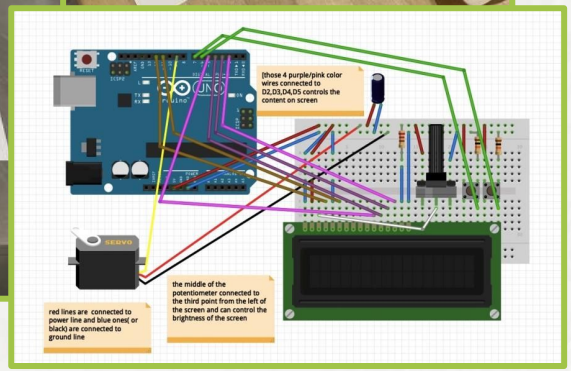
Parts ordered online arriving late or not arriving at all

No access to advanced tools like 3D printer etc.

Arduino limitations

Questions?




[those 4 purple/pink color wires connected to D2,D3,D4,D5 controls the content on screen
the middle of the potentiometer connected to the third point from the left of the screen and can control the brightness of the screen
red lines are connected to power line and blue ones(or black) are connected to ground line