(14)

meeting #11 (weekly) 2/17/23

meeting time: 2:00 PM - 2:20 PM

presentation complete on wednesday

today's goals: plan our due dates for next week, plan out budget

need to 3D print with food-safe material as well as material that can endure kitchen-friendly temperatures

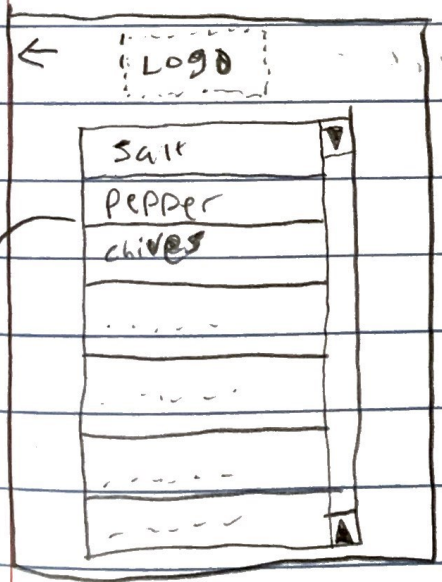
make sure tubing meets our standards, aka it is big enough for our product to properly house spices

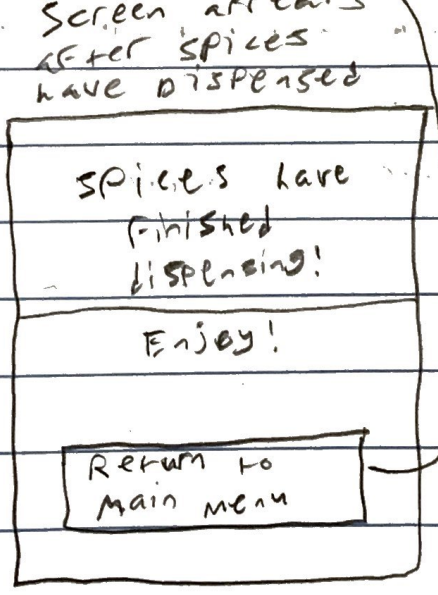
determine dimensions over the weekend, sketching on sunday for components such as design, UI

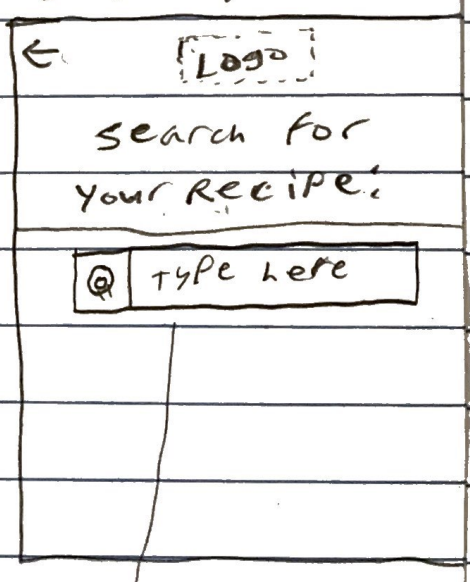
UI: sketch different page layouts, could use sides as well for this purpose
draft sketch by wednesday

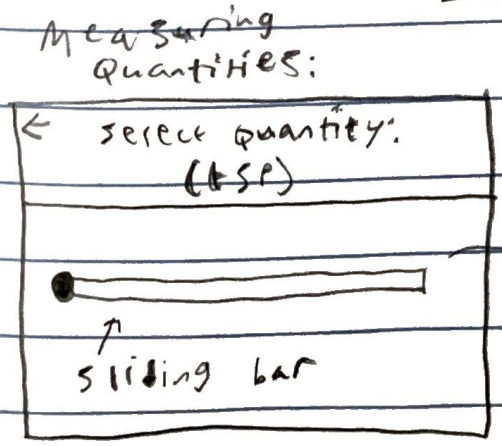
UI Sketching:

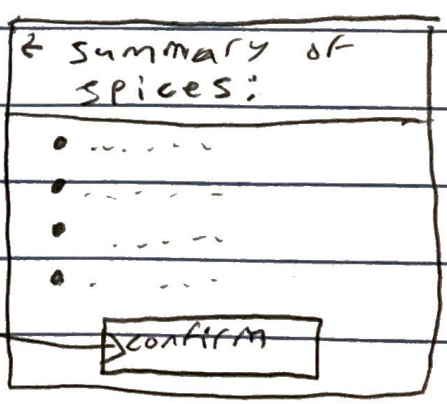
Landing page:











Machine starts dispensing

(16)

Meeting #12 (In-Person) 2/20/23

Meeting time: 8:00 Am - 9:30 AM

Worked on Acquiring parts

Decided what PLA colors to use for the prototype 3D printing

Motors to use:

High torque DC motor for the spiral mechanism

Planning to 3D print gears; can buy some that meets our standards in case.

Cutting down on budget, finding cheaper parts for all functionalities of the system

Found a cheaper touchscreen

meeting #13 (In-person) 2/22/23

meeting time: 8:00 AM - 10:05 AM

1st weekly meeting today

- For budget:

  Been cutting down on costs as much as possible whilst maintaining quality of what we order

  Found new parts to acquire; bearing, table, 20 kg servo, etc.

Notes from meeting:

- obtain small bottles for housing possibly
- could cut boxes in half to double space for housing
- 2 or 3 varieties for slices
- Experiment with motors
-

Meeting #14 (week 13) 2/25/23

Meeting time: 10:00 AM - 10:31 AM

Notes for UI:

- Back button on each page
- Might not be able to do search bar for recipe; requires keyboard
- another button on landing page to map spices throughout the system
- come up with a way to detect when spices are low

Languages for UI:

- Java Swing
  - might take time to learn FX; more modern than swing

make GitHub for code and 3D models

meeting #15 (In-person) 2/27/23

meeting time: 8:00 AM - 9:00 AM

GitHub created, Java FX environment set up.

meeting #16 (In-person)

3/1/23

meeting time: 8:00 AM - 10:00 AM

Parts received and distributed

Reviewed parts, what to do with them, etc.

Meeting minutes:

- consider time dispensed for each slice
- Consider a gap with the screw and container
  - Takes any residue into account at the end
- Thickness of container wall in relation to the hole for the corkscrew

Meeting #17 (weekly) 3/3/23

Meeting time: 1:35 PM - 1:55 PM

Going over meeting minutes from last Wednesday.

Interfacing probably the primary focus for this week

Continue work over the weekend, meet in-person on Monday

Meeting #18 (In-Person)

Meeting time: 8:00 AM - 10:00 AM

3/8/23

Meeting minutes:

Pin-Pad System:

- Serves as a hub for all the wiring

-

Raspberry Pi powering Arduino w/ 5V

- Add resistors to prevent shorts w/ data coming back

UI

- Eliminate web scraping for recipes
- Detect what spice is being measured

-

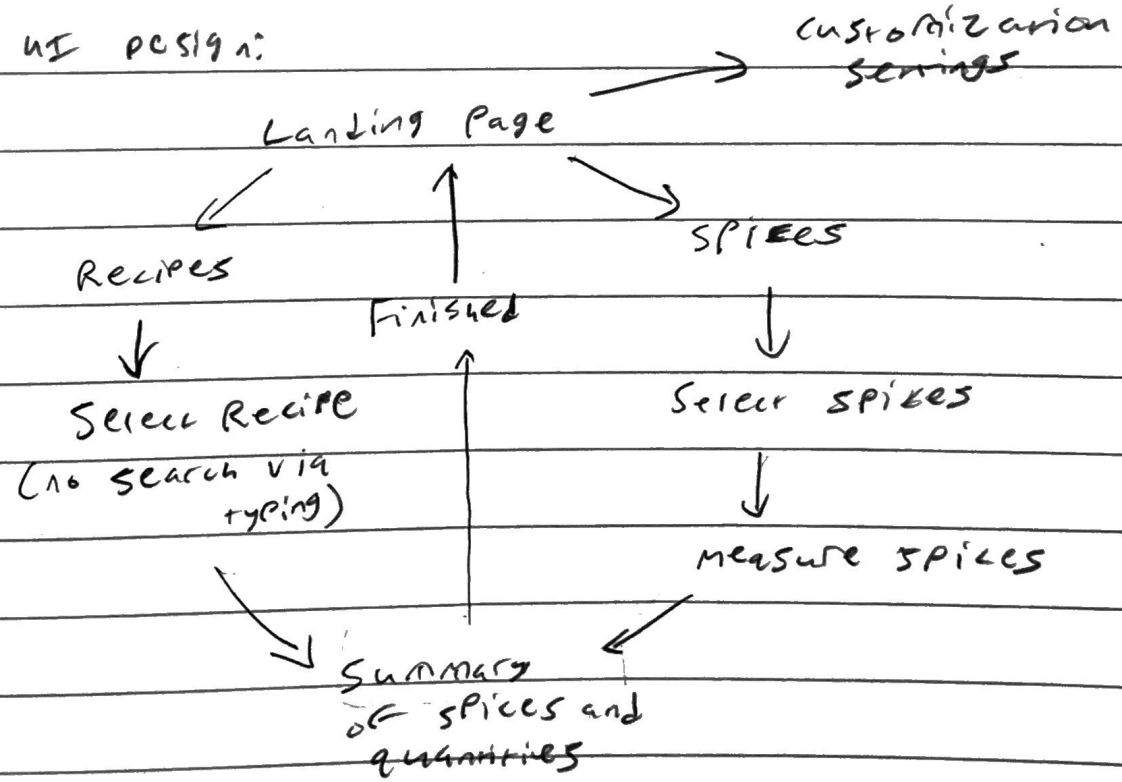
meeting #19 (virtual) 3/20/23

meeting time: 9:30 AM - 11:00 AM

Go over CDR Report, update parts and any system specifications

Worked on housing through CAD software; got a finished sample container

Updated UI design:



Finalize presentation tomorrow, update Gantt chart accordingly

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Meeting #20 (In-person) 3/22/23

Meeting time: 8:00 AM - 10:20 AM

COR presentations today

Possible to use a wood base to save time; 3D printing for the housings will take some time, need to print 8 different housings, each one taking several hours (approx. 9 hours)