julian
marmier

Portfolio
Portfolio
Portfolio

123

Table of Contents

For more details about each project, visit julianmarmier.com.

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THREE	Web Design & Development →	7
FOUR	High School Robotics →	13
FIVE	Mit Museum Studio & Compton Gallery →	19

MARKET 2DAY

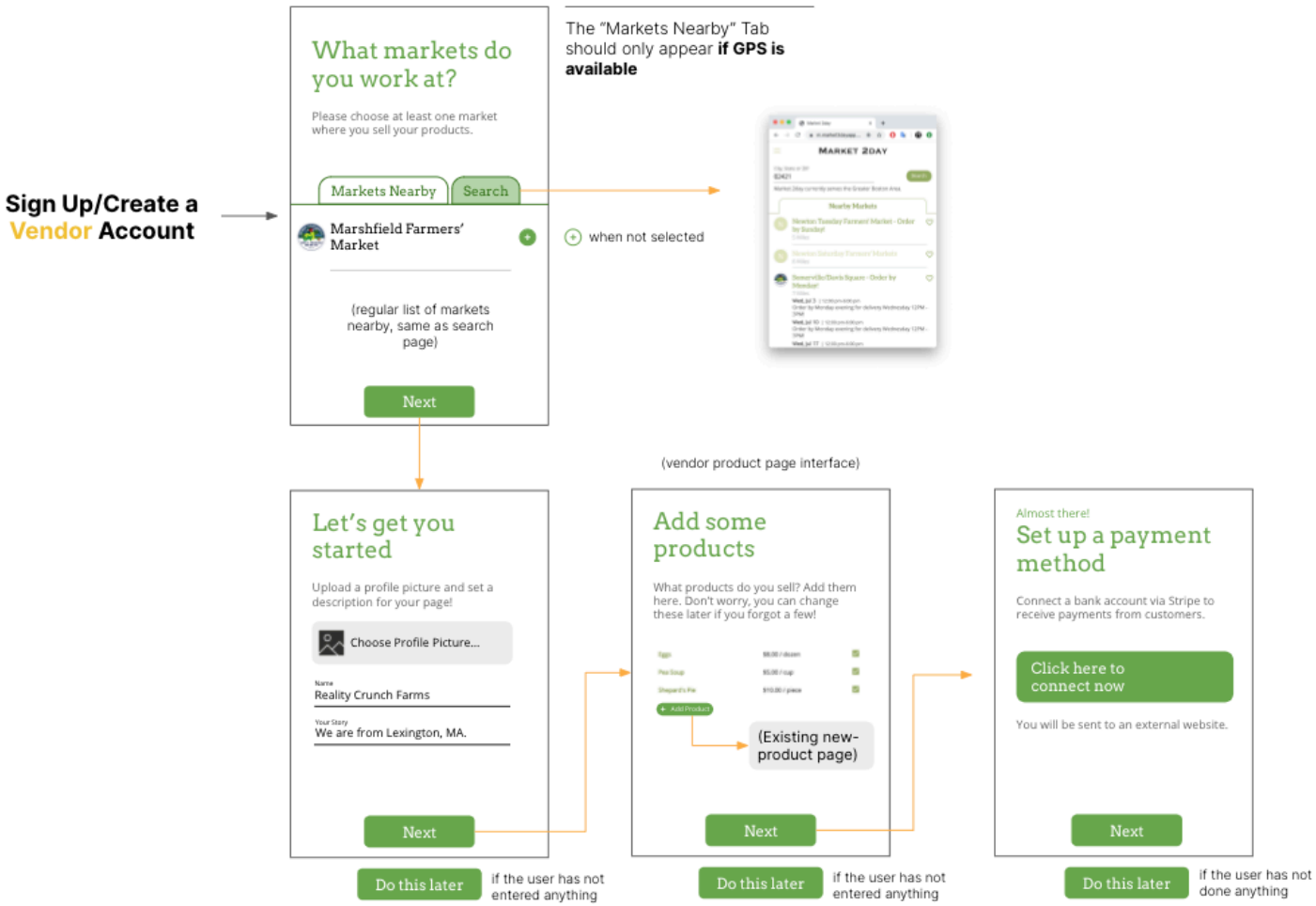
COMPANY INFO	**Market 2day** market2dayapp.com

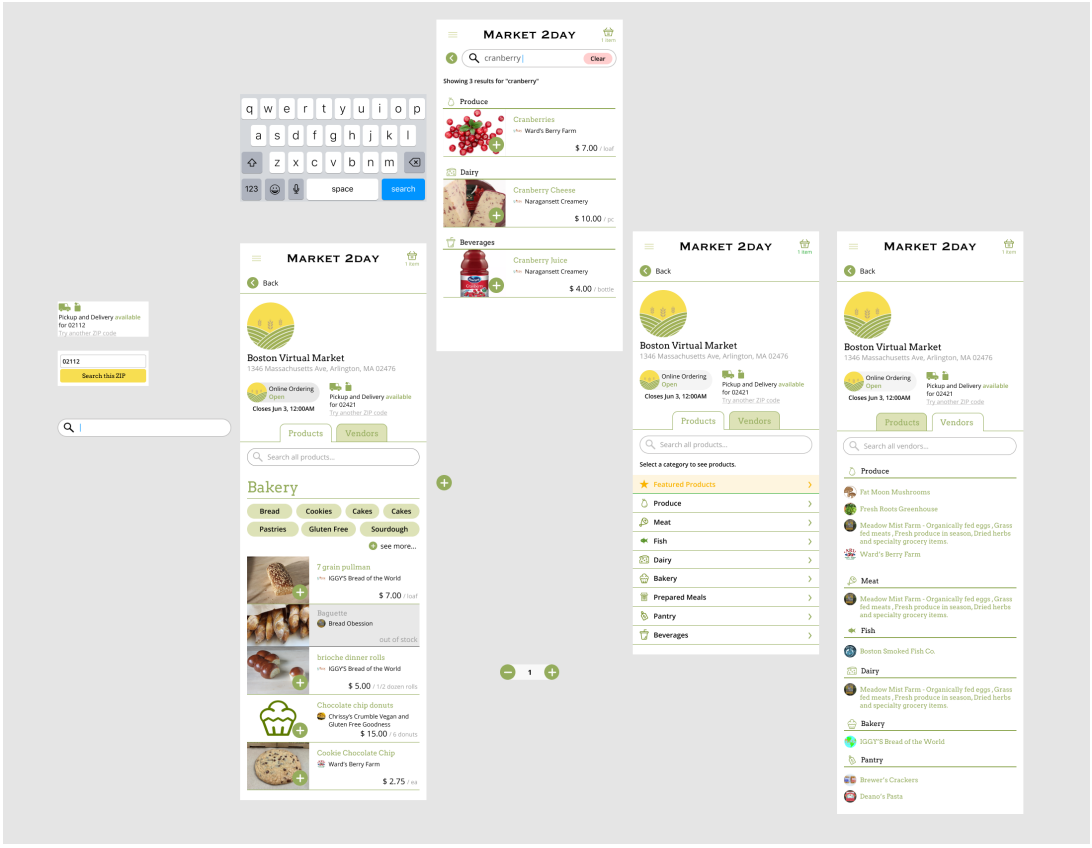
Among the many projects I've helped this startup with, the biggest one so far is to redesign their application to make it more accessible for customers of all technological backgrounds.

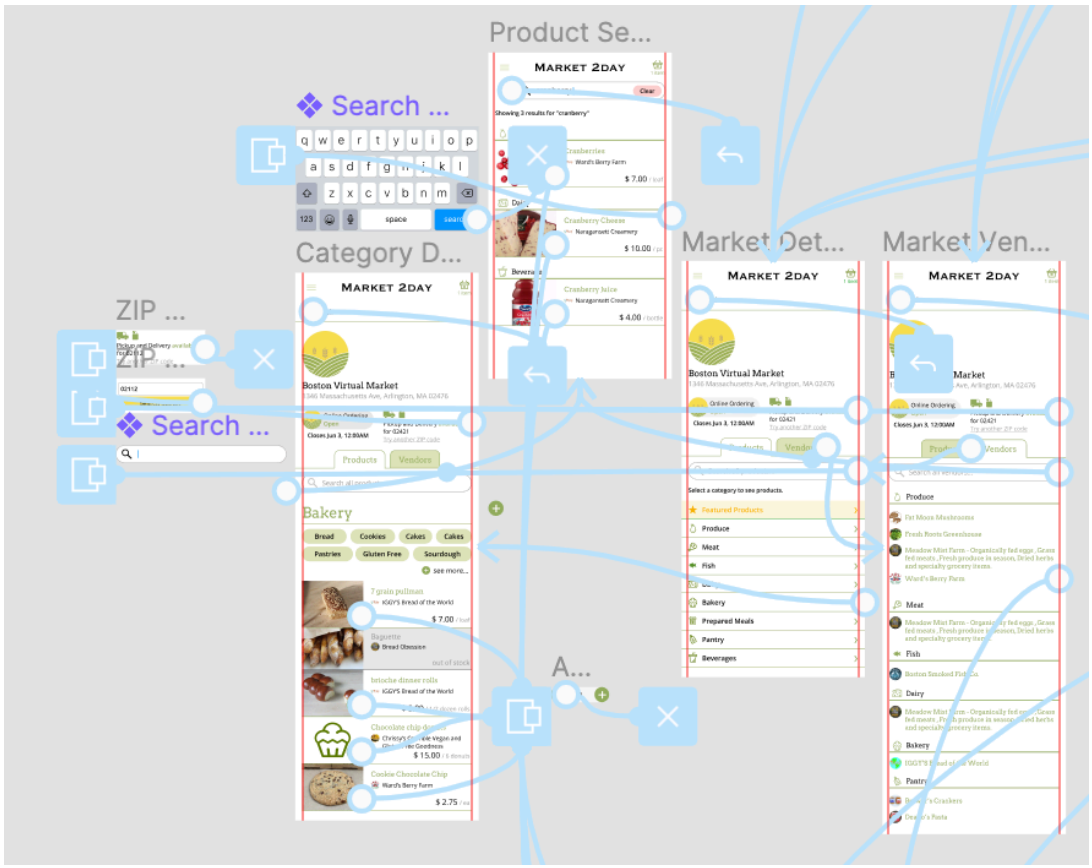
View the latest revision here: **https://www.figma.com/proto/dEzRAIo81oVQucqMJHzYQ0/App-Redesign-for-Market-2day?scaling=scale-down&node-id=247%3A410**

Improved Onboarding

Vendor




MARKET 2DAY
cranberry
Clear
Showing 3 results for "cranberry"
Produce
Cranberries
Ward's Berry Farm
$ 7.00 / loaf
Dairy
Cranberry Cheese
Narragansett Creamery
$ 10.00 / pc
Beverages
Cranberry Juice
Narragansett Creamery
$ 4.00 / bottle
Back
Boston Virtual Market
1346 Massachusetts Ave, Arlington, MA 02476
Online Ordering
Open
Closes Jun 3, 12:00AM
Pickup and Delivery available for 02421
Try another ZIP code
Products
Vendors
Search all products...
Bakery
Bread
Cookies
Cakes
Cakes
Pastries
Gluten Free
Sourdough
see more...
7 grain pullman
IGGY'S Bread of the World
$ 7.00 / loaf
Baguette
Bread Obsession
out of stock
brioche dinner rolls
IGGY'S Bread of the World
$ 5.00 / 1/2 dozen rolls
Chocolate chip donuts
Chrissy's Crumble Vegan and Gluten Free Goodness
$ 15.00 / 6 donuts
Cookie Chocolate Chip
Ward's Berry Farm
$ 2.75 / ea
Select a category to see products.
Featured Products
Produce
Meat
Fish
Dairy
Bakery
Prepared Meals
Pantry
Beverages
Search all vendors...
Fat Moon Mushrooms
Fresh Roots Greenhouse
Meadow Mist Farm - Organically fed eggs, Grass fed meats, Fresh produce in season, Dried herbs and specialty grocery items.
Ward's Berry Farm
Boston Smoked Fish Co.
IGGY'S Bread of the World
Brewer's Crackers
Deano's Pasta
02112
Search this ZIP


Product Se...
Search ...
Category D...
Market Det...
Market Ven...
ZIP ...
Search ...
A...
MARKET 2DAY
Boston Virtual Market
Bakery
Produce
Meat
Fish
Dairy
Bakery
Prepared Meals
Pantry
Beverages

COMPANY INFO	Startup Leadership startupleadership.com

Design Consulting

As a part of their rebranding efforts, Boston-based startup incubator Startup Leadership Program was looking to unify their worldwide chapters' website design. As a design consultant, I proposed a standard branding guide for the company as well as a new standardized website chapter design.

Brand Consistency

Make sure that the fonts and colors used are consistent with those used on the SLP Global Website.

TYPOGRAPHY	COLORS		
Proxima Nova *Paid font—use this only if allowed. If on a budget use* **Montserrat** *(free) instead.*	Orange #F4864e	Blue #486cb1	Black #1c1c1c
	Dark Gray #6b7d86	Light Gray #879eab	Light Blue #5dc6cf

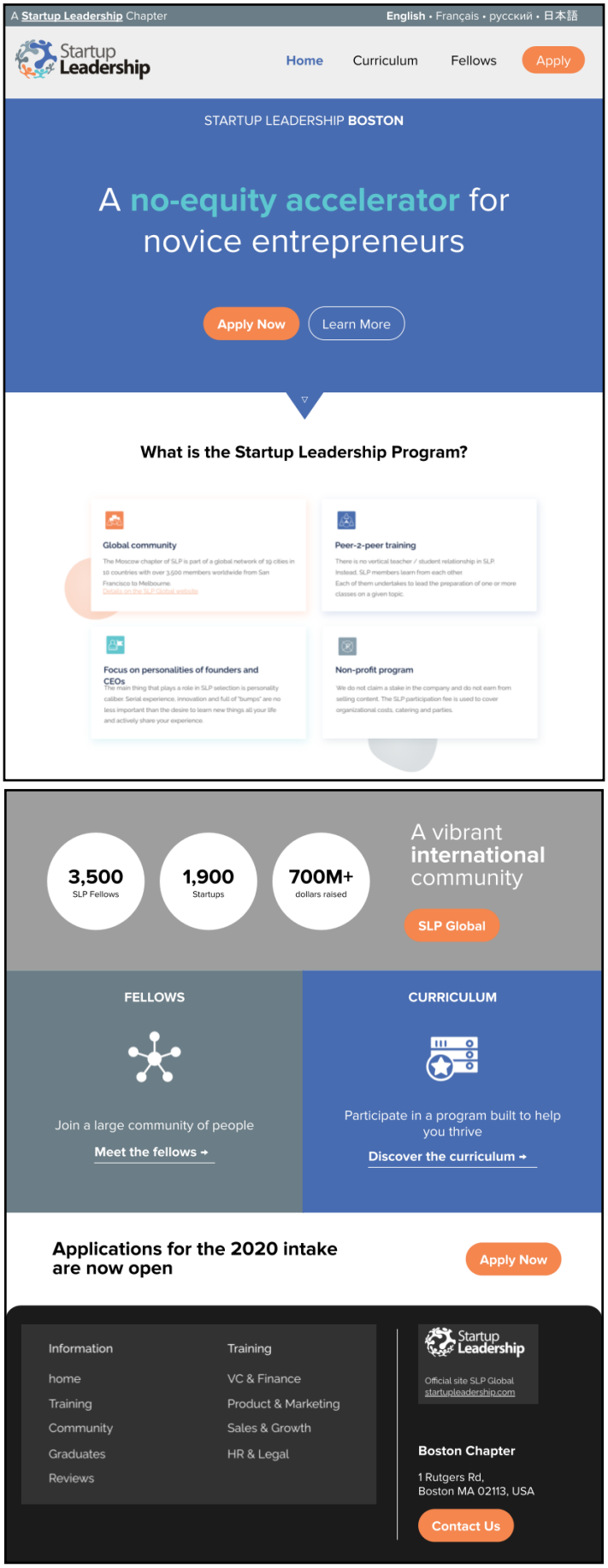
Tips.

- Make sure your website is **mobile-friendly**.
- Don't add too many pages and links in your navbar. It will seem crowded. 7 is the absolute max.
- Include a reasonable mix of text and images/icons/diagrams. There should be at least 55% images in terms of size. Paragraphs should be short and concise.
  - 💡 *Add some statistics!* People like statistics and charts.
- Use the brand colors effectively. There are 6 to choose from. See below for some recommendations on how to use each color (from SLP Global page).

RECOMMENDED COLOR USE CASES	
Orange	**Actions**—buttons, links, etc. *Example:* Apply *button.*
Blue	Backgrounds for emphasis of content, e.g. the blog section of the SLP Global Site's main page.
Black	Text, especially important information that will stand out
Dark Gray	Backgrounds for contrast. See SLP Global Site's main page. Could also be used for a footer, or icons.
Light Gray	Backgrounds for contrast, or icons. Very similar to dark gray.
Light Blue	Not used as commonly. Could be used for emphasis as well, similar to orange. For example for text on a blue background.

However, please do note that for regular content it is a good idea to use a **white** or **light gray** background with **black** text so as not to create too much eyesore for the viewer.

▲ **Website branding guidelines**



▲ **The proposed standardized website template.** *It has since been loosely implemented on the new chapter websites.*

Web Design & Development

In this section I've added some of the more recent notable projects I've worked on.

Other (less recent) projects not shown include **julianmarmier.com**, **foda.julianmarmier.com**, **math.julianmarmier.com**, and **lhsphotoclub.org**.

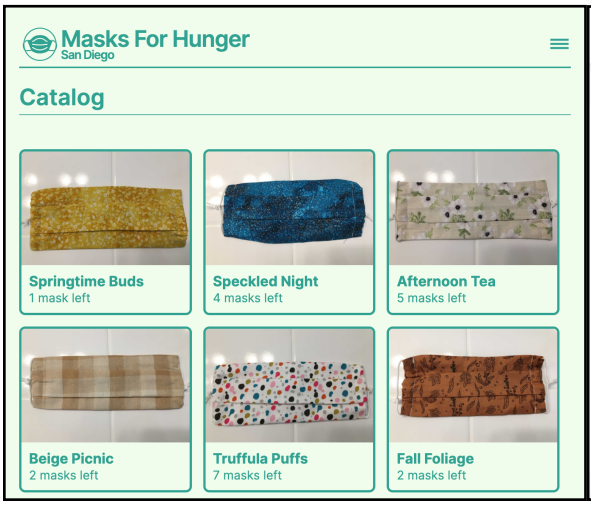
Subsections

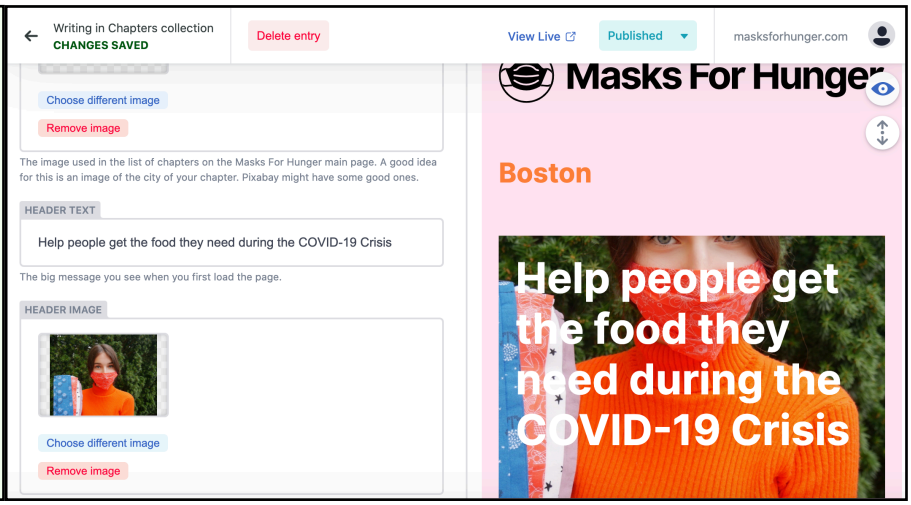
A Masks for Hunger 8
B Organize 9
C Memorize 11

Masks For Hunger

Masks for Hunger
masksforhunger.marmier.co (archived)

During quarantine, I made this website for a friend's organization, complete with a CMS backend using NetlifyCMS, GatsbyJS, and React.



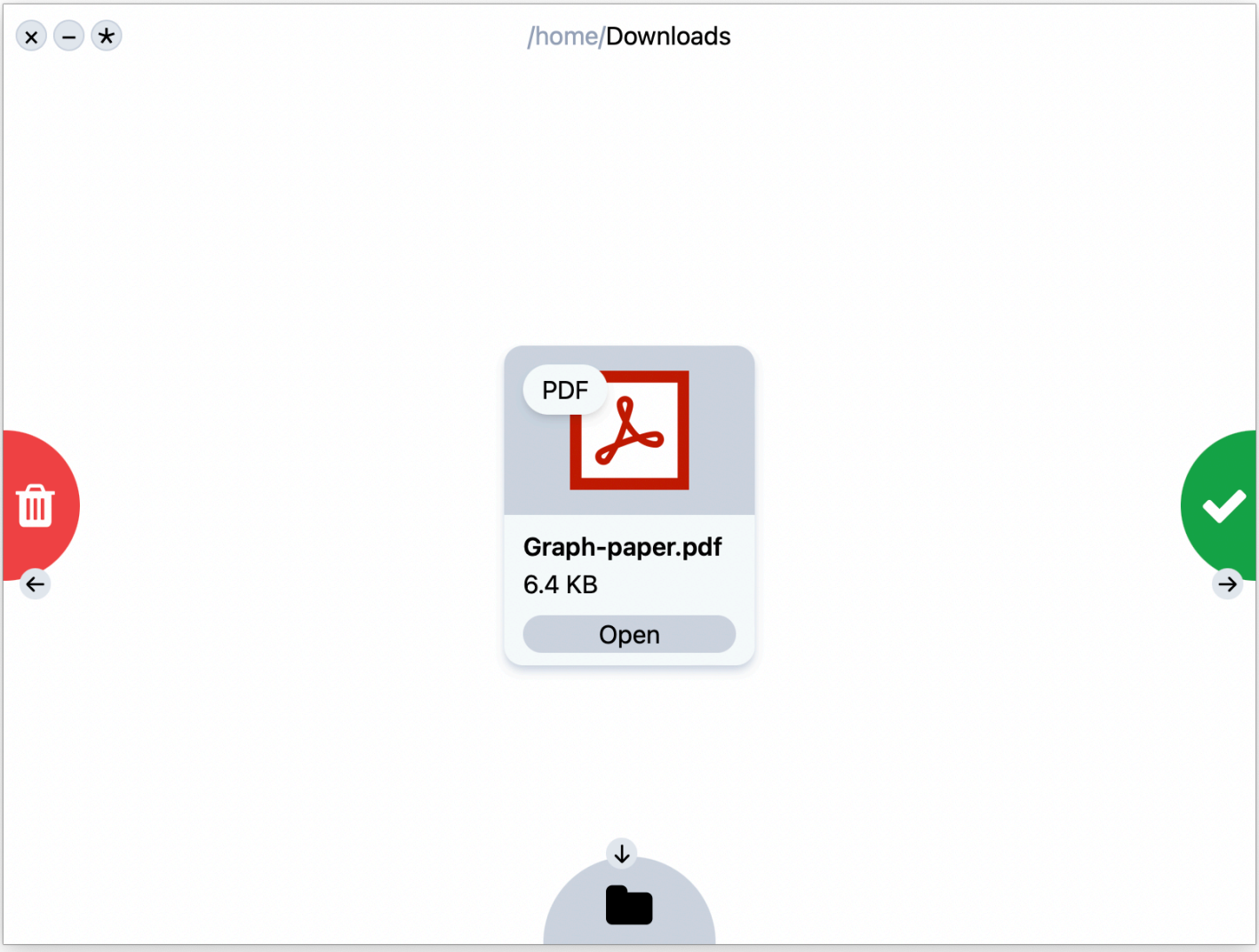


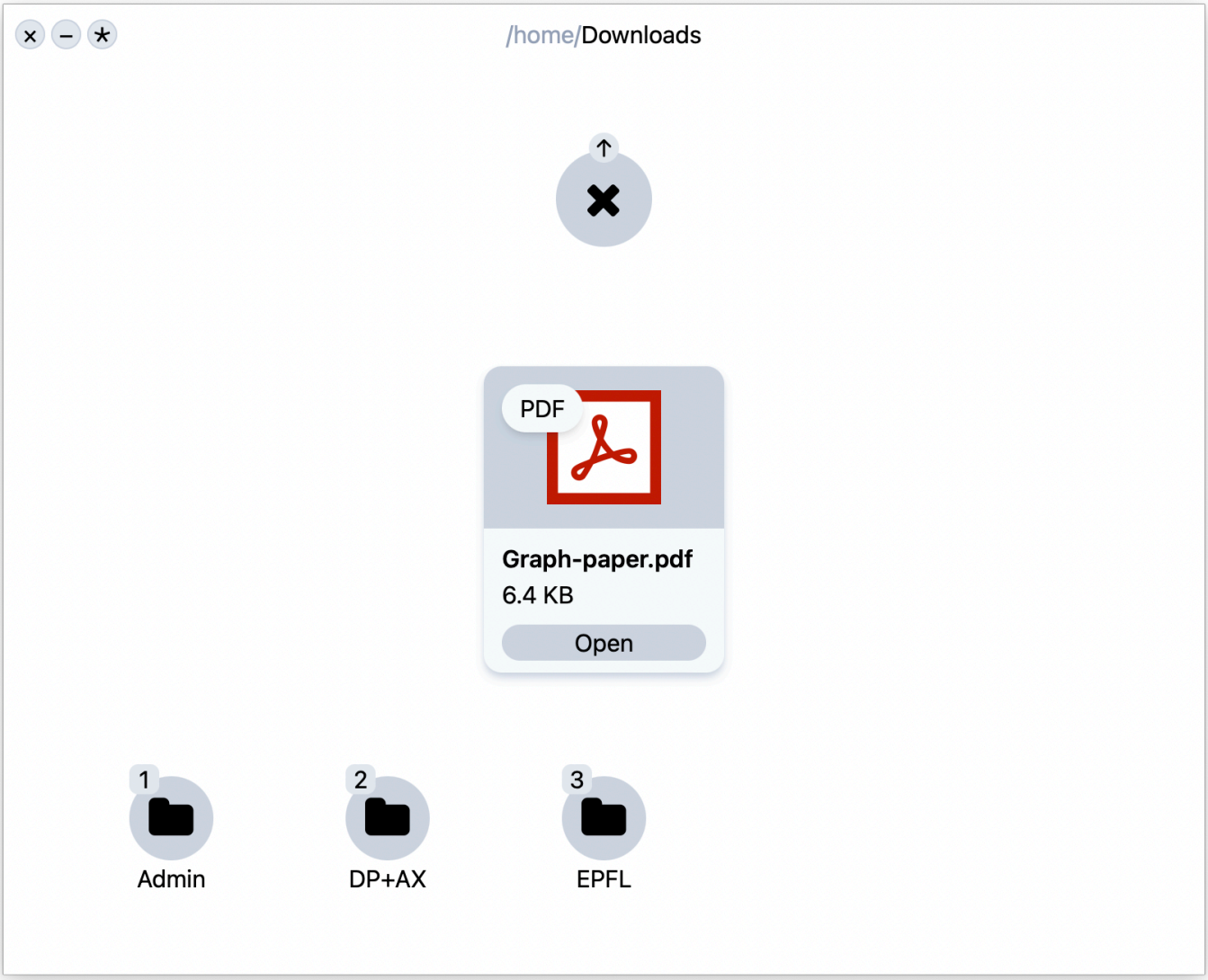
Organize

organize.julianmarmier.com

A file management application I made while learning to build desktop apps with Electron. A minimalistic interface allows for files to be quickly kept, removed or transferred to a different folder. ***This project is in development*** *and still lacks many important features that I hope to add in the future.*

I recently redesigned the app from scratch using Svelte and Tauri, which shortened the bundle size from a hundred to a mere few megabytes and will allow for much easier future development.

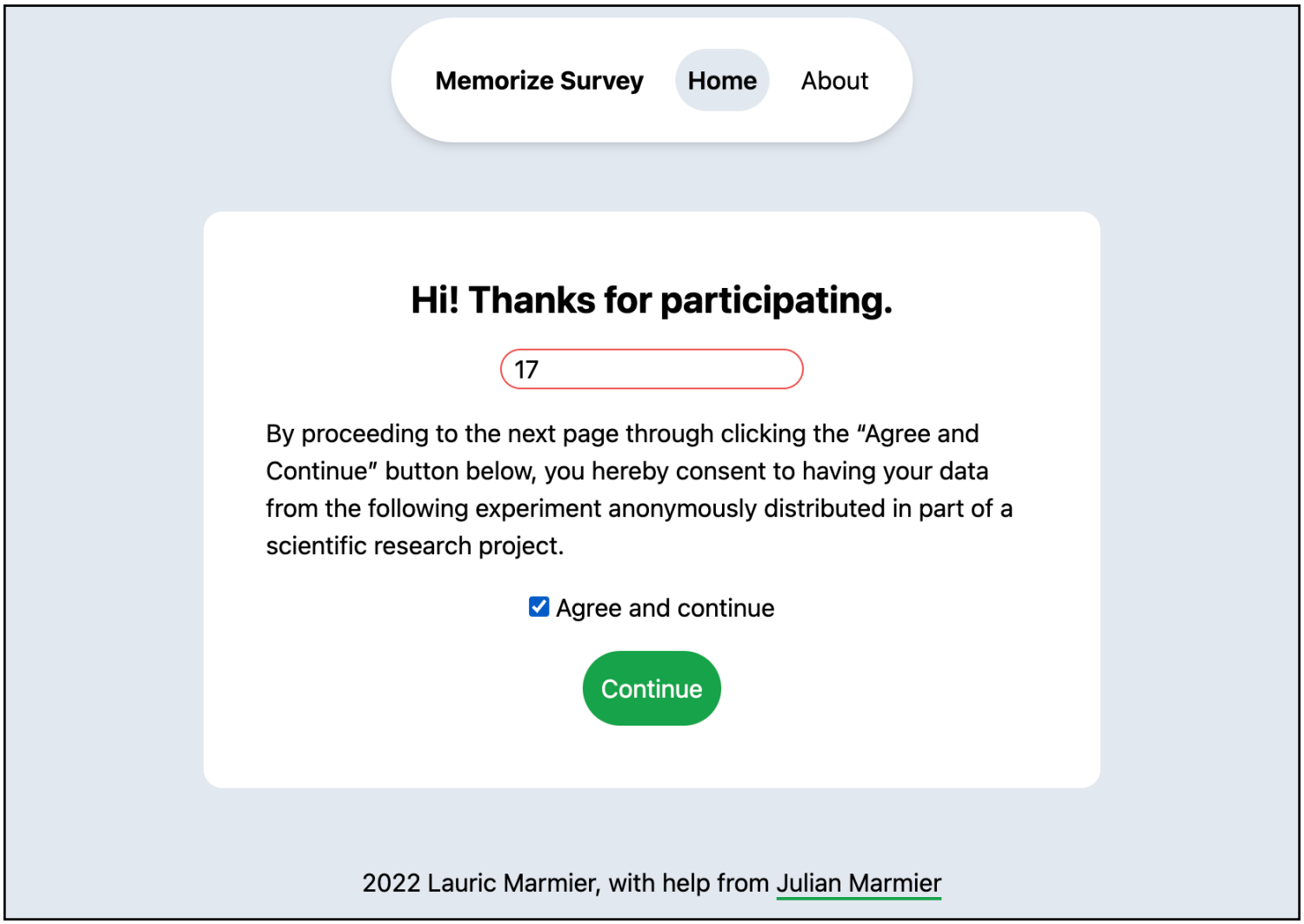



/home/Downloads
PDF
Graph-paper.pdf
6.4 KB
Open
1
Admin
2
DP+AX
3
EPFL

Memorize Survey

memorize.marmier.co

My brother needed help gathering data for a Biology project about short-term memory, so I decided to help him by creating small website. Build on Vite and Svelte with a Google Sheets database connector as the backend, the simple interface proved to be quite effective in collecting data and was easy to use for participants of all ages.



Memorize Survey | Stage 1 of 5 | About

17

2022 Lauric Marmier, with help from Julian Marmier

Memorize Survey | Stage 1 of 5 | About

Please select the items you saw, to the best of your recollection. Then click **Continue**.

dog

- [ ] Dog
- [ ] Hotdog

Continue

2022 Lauric Marmier, with help from Julian Marmier

Lexington Legoheads

Lexington Legoheads
legoheads.weebly.com

My robotics team.

*Part of the **FIRST Tech Challenge** and qualified for the FIRST World Championships in Detroit via the Vermont Inspire Award.*

Subsections

A Engineering Notebook 14

B CAD Render 18

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Lexington Legoheads

SECTION TWO

Engineering Section

Z END OF BINDER	**Engineering Daily Journal**		SEE LAST CHAPTER
C	**Strategy, Scouting, Statistics & Science**		
	14.	Game Strategy and Planning	13.1
	15.	Scouting & Statistics	14.1
	16.	Material Science (Friction)	15.1
D	**Robot Design** Evolution, Innovation & CAD		
	17.	Design Principles	16.1
	18.	Evolution of Our Design	17.1
	19.	Drawings & Animations of the Robot Modules	18.1
	20.	PTC Creo CAD	19.1
E	**Robot Engineering** Hardware, Electronics & Mfg		
	21.	Hardware Modules	23.1
	22.	Engineering Innovations	24.1
	23.	Electronics, Wires & Sensors	25.1
	24.	Manufacturing	23.1
F	**Robot Software** Computer Vision & Navigation		
	25.	Code Development Process	24.1
	26.	Software Modules	25.1
	27.	Autonomous Software Programs	26.1
	28.	Teleop Software Programs	27.1
	29.	*Control:* Sensors & Algorithms	28.1
	30.	Odometry & IMU	29.1
	31.	Computer Vision	30.1
G	**Testing & Quality**		
	32.	Failure Mode and Effects Analysis (FMEA)	31.1
	33.	*Hardware Testing:* Visual & Testbed Program	32.1
	34.	*Software Testing:* Verification & Maintenance	33.1

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Summary

11251
Founded 2010

Lexington Legoheads

Suggested Pages

1 PAGE 4.1 — Meet our team members!

2 PAGE 9.2 — Learn about the modular exhibit we take on the road.

3 PAGE 12.6 — Read about a successful event with a sponsor,

4 PAGE 13.2 — Find out how we discover our alliance picks.

5 PAGE 18.1 — Discover our hardware and software innovations.

6 PAGE 25.2 — Take a peek at what and how we manufacture.

7 PAGE 30.1 — *Sense* the sensors and algorithms we implement.

8 PAGE 35.1 — *Test* the writing of our pre-match testbed program

9 PAGE 41.1 — See how we raise money through sponsorships

10 PAGE Z.17.7 — Step into the world of the Legoheads for a day.

END OF BINDER

Team 11251

We are the Lexington Legoheads, an independent robotics team from Lexington, Massachusetts. Made of eight seniors and one sophomore, our team is a very diverse group, passionate not just about competitive robotics, but excited to **share our knowledge** and **make a difference** as we move on into our fourth year of the *FIRST* Tech Challenge.

We started when we were as little as 7 years of age, and continue to chase a dream of one day going to the World Championships. Even if we never achieve that goal, we want to inspire others to learn what we did.

Our Backstory

"Never Quit"

The Legoheads were formed by **Rohan** in 2010 as a *FIRST* Lego League team when he saw the Pickle Jarheads, a local town team, demo their robot in the town library. He pulled in a small group of friends. After initial success, when things didn't go as planned in the second year, everyone **quit** except **Rohan**. He found similar passionate people who had experienced frustrations elsewhere but had **refused to quit**. **Andrew** joined in 2012, **Samedh** in 2013, & **Sameer** in 2016. We have stayed together through success and failure. **Amolak, Julian, and Joris** joined in 2018, and **Sydney** joined us this year. Each of us has something special to contribute without whom we would not be complete. We have gotten to know and trust each other really well.

Legoheads by the Numbers

8 team members — SECTION 4

18 teams collaborated or mentored — SECTION 8

3 specialists with whom we connected — SECTION 7

SECTIONS 11 & 38 **$1,226** raised for charity

SECTION 9 **300** children exposed to *FIRST*

34 Awards and recognition over nine years — SECTION 6

4 outreach events organized or planned — SECTION 10

1 product invented — SECTION 11

15,000+ messages sent on Slack

10 years dreaming of going to Worlds

A Our Team

Lexington Legoheads

Julian

Favorite Color
Gray

Favorite Movie
Amélie

Favorite TV Show
The Office

Favorite Book
Fantasy Life

Favorite Car
Tesla Model X

Birthday
December 17th

Zodiac
Sagittarius

Grade
Senior

Favorite Sportsperson
Kilian Jornet

Favorite Activity
Going Downtown

Most Memorable Vacation
Trip to Laos

Favorite Phrase Coach Says
“What a Country”

What the team depends on me for

Logo and Brand Identity **Engineering Notebook** **AR**

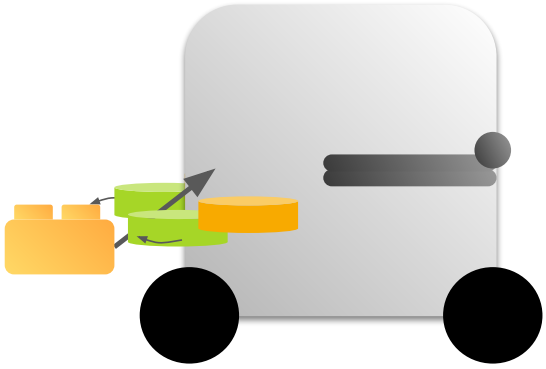
PAGE #

Lexington Legoheads

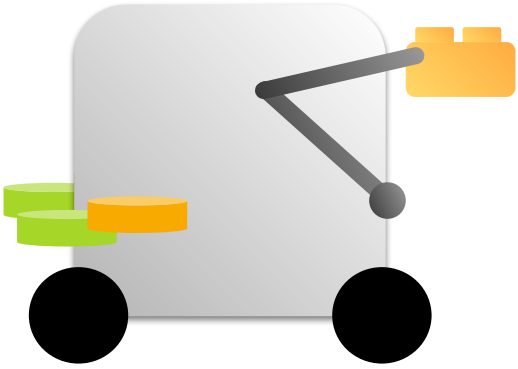
D Robot Design

2D Animation

To complement the evolution of our design, we created 2D animations of the robot chassis for each version using Adobe Animate. Below is part of the chassis we made using Animate, which shows the *Stone* being intaked and then stacked with the cantilever.



Intake



Cantilever

PAGE #

▲ Render of our 2020 robot's fourth revision. Made using Blender.

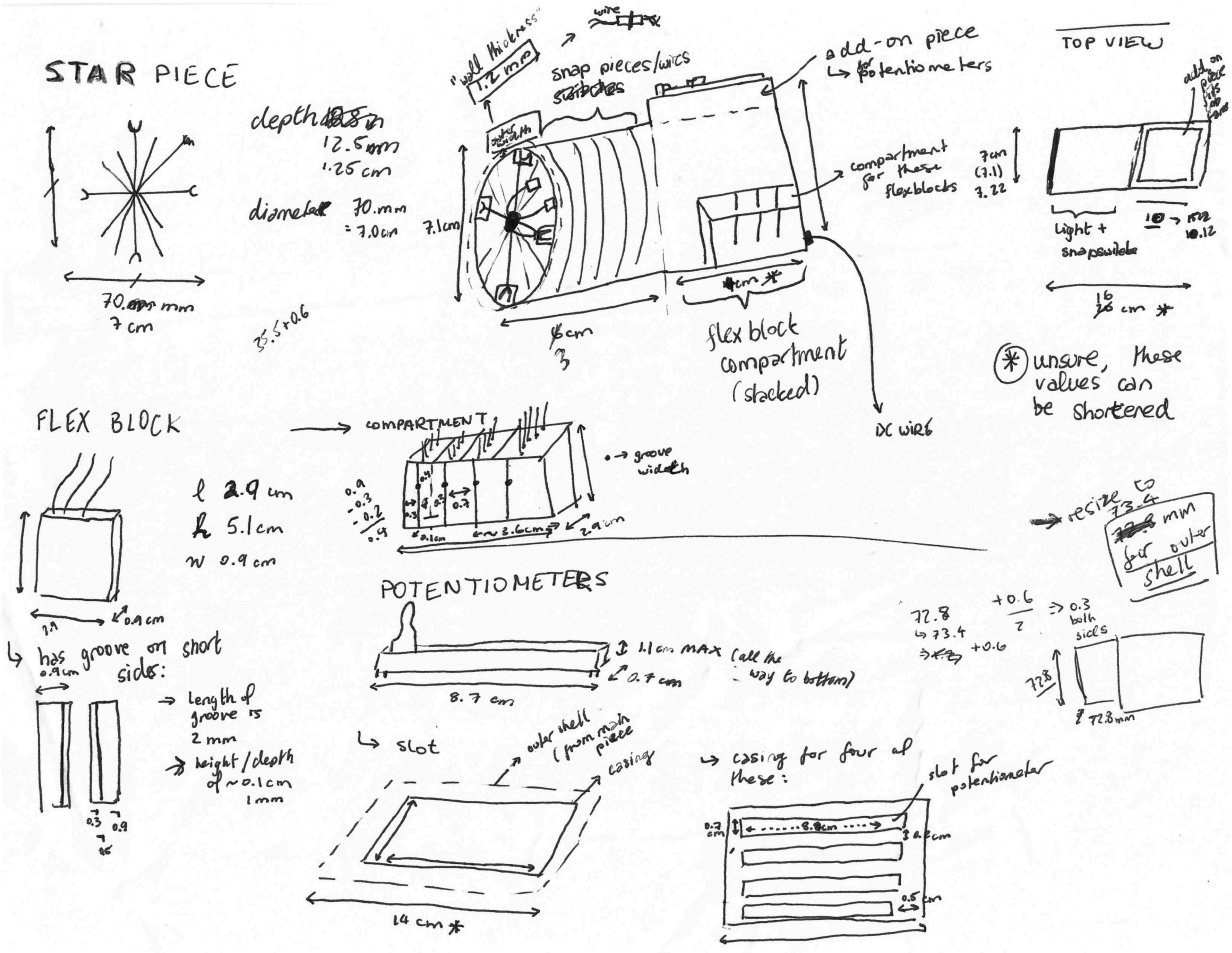
For a short animation of this model, also made by me, see ⟲ **https://youtu.be/o44oXrlgEQM**.

STUDIO INFO	**MIT Museum Studio & Compton Gallery** mitmuseum.mit.edu/mit-community/mit-museum-studio-and-compton-gallery

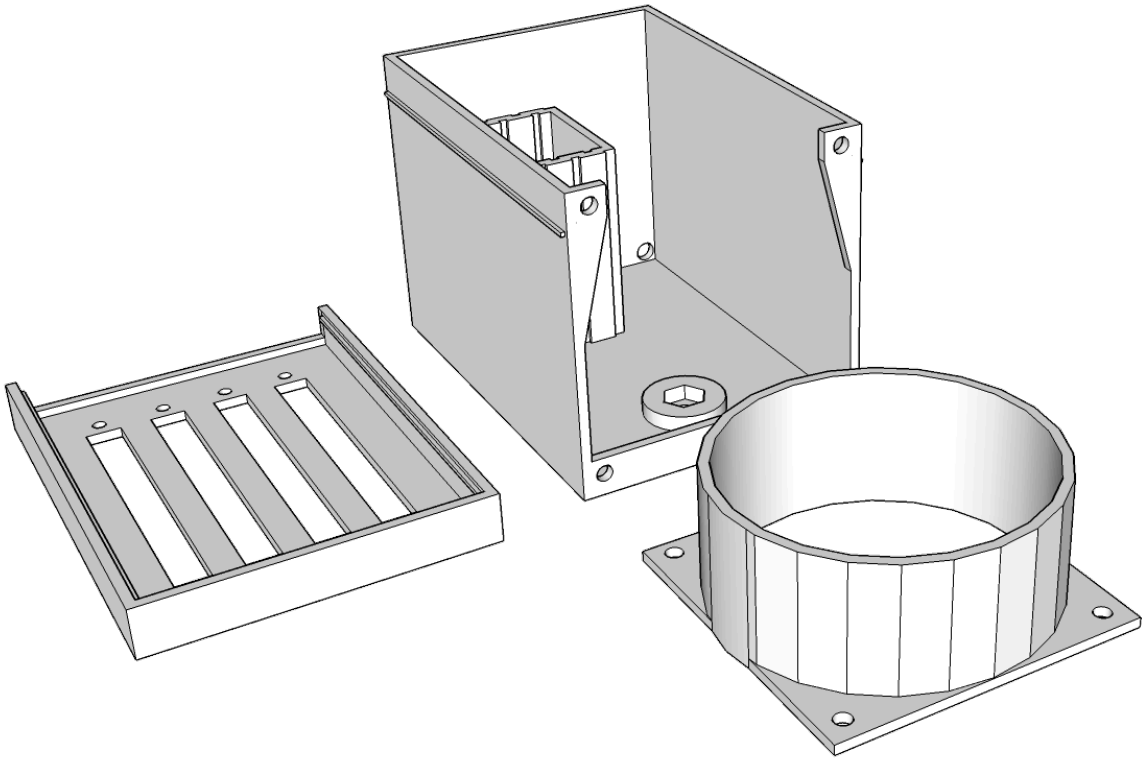
Internship

One of the projects I was tasked with was designing color-adjustable studio lights based off of a cardboard and foam model provided by the studio managers. The design eventually became two different final prototypes—initially we had planned to 3D print the frame, but that turned out the be too expensive, so instead we went for stacked precision-cut plexiglass plates, held together by threaded wire.

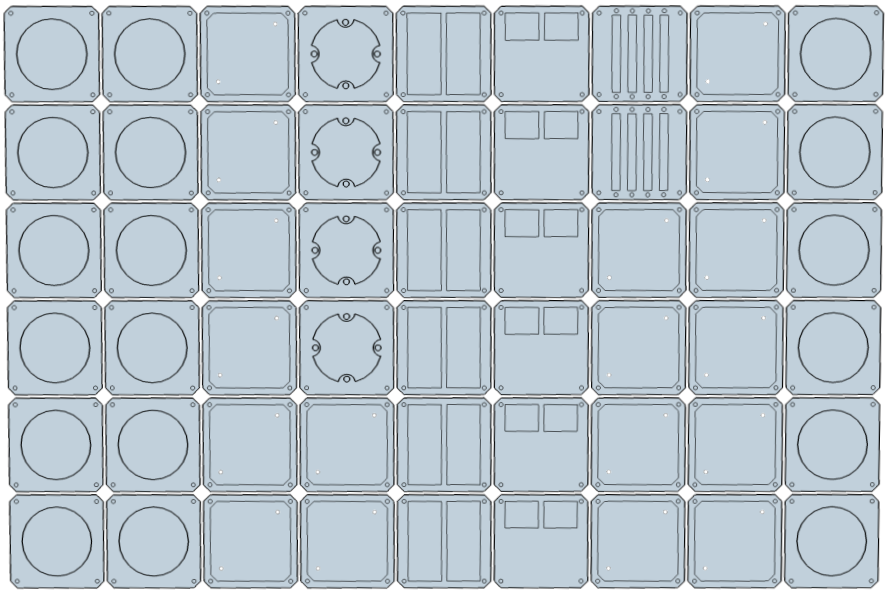
From this project I learned how to design and build something from start to finish, which inspired me to want to pursue a future in product design and design engineering.



▲ Design Phase — gathering information about electrical components and the dimensions of the case.



▲ **The final 3D model to be printed. However this would have cost around $90 in printing per model!**



▲ **Instead we went with a plate system...**

▲ The final product!