

Hi, I'm Abby.

I love to solve cool problems with code.

My Story

I'm Abigail, a Software Engineer and UX Designer who loves problem-solving and creating usable interfaces. I strive to bridge the gap between humans and technology. I am a fourth-year student at the University of Michigan (graduating May 2020), pursuing a B.S. Information Science with a concentration in UX and a minor in Computer Science. When I'm not debugging, you can find me taking photos, traveling, or enjoying a movie. Feel free to message me at abisny@umich.edu.



Toolkit & Interests

Code

- C++
- Python
- Java
- JavaScript
- Ruby
- HTML/CSS

Design

- Adobe Photoshop
- Adobe Illustrator
- Sketch

Just For Fun

- Film
- Photography
- Traveling
- Skiing

Project

Real-Time Monitoring Dashboard

Context

While working as an Application Development Summer Analyst at Morgan Stanley, in the summer of 2019, I was tasked with implementing “design-for-failure” into a core framework of the Capital Markets team underneath Wealth Management. I worked with one other Summer Analyst on this project. We were given eight weeks and the documentation for Hystrix, an open-source library developed by Netflix.

Problem

The framework we were working with was not fault-tolerant. When one service failed, or was slow, all other services also became slow or went down. Design-for-failure fixes this by making services independent, and gives them each “fallback” services to switch to upon failure, outage, or other potential risks.

My job was to create a dashboard to allow for real-time monitoring for this system. A UI that would be used by the Application Support Group at Morgan Stanley to check when services were down and why, and be able to help them recover more efficiently.

Process

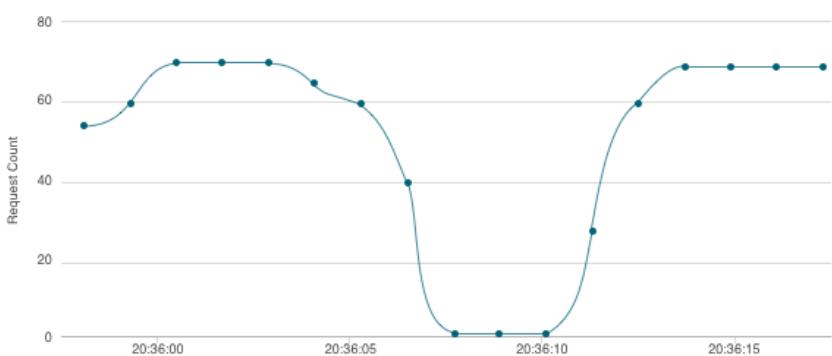
1. Interpret the JSON stream coming continuously from the backend
 - What are the important properties to display?
 - How are the properties related to one another?
 - How does Netflix’s dashboard display the properties, and why is it bad?
2. Design
 - Sketches, wireframes & mock-ups
 - Present to the team
3. Develop
 - Study Angular and begin framework
 - Connect Angular service to Hystrix stream
 - Parse & sort data
 - Style the front-end

High Fidelity Mock-Up

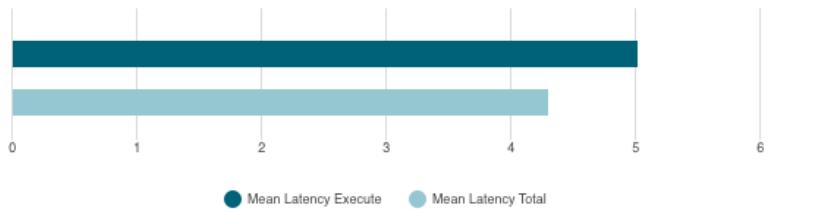
AccountService

Closed 

Load



Latency



Fault

Successful Requests: 274 Short-Circuited Requests: 0 Timed-out Requests: 0
Failed Requests (Exceptions): 120 Failed Fallback Requests: 0 Requests to Missing Fallback: 0

SecurityService

Open 

SecurityService-fallback

Closed 

Project

Landing Page- “Under Construction”

Context

While working at Sparkly.io, a start-up in Tel Aviv, in the summer of 2018 the CTO and I decided to re-write the entire codebase, because it was messy from the last developer and we didn't understand its structure. We took the whole site down, and my first task was to design the landing page that would exist in its place while the new site was being built.

Problem

I needed to tell the story of Sparkly on just a single page (no scroll), and while keeping the design minimalist and easy to glance at and understand. I also wanted to display the progress of the site; we didn't know exactly when the work would be done on the new site, however we wanted to assure customers and potential customers that the development was happening.

Process

1. Design
 - Sketches, wireframes & mock-ups
 - Present to the team
2. Develop
 - Create email form and test
 - Style the front-end

Screenshot of Developed Landing Page

We're building a **new way** for you to tell your story on **mobile**.

Take advantage of all the sensors todays phones have to offer in order to increase engagement with your mabile audience. Our easy to use builder lets you create those experiences without writing any code.

you@youremail.com

74%

Twitter icon

f Facebook icon

@ Email icon

Project

Career Ready

Context

While studying abroad in Copenhagen, I took a class in Entrepreneurship, a new topic for me. I was put into a group with three other students, and was told to come up with an idea, and start a company. After weeks of research, brainstorming, and interviewing potential customers, we came up with our product: Career Ready: a platform where Youtube meets LinkedIn [for students]. As a student, you can sign up for a free or paid account and view short “day-in-the-life” videos for any career or job you’re interested in learning about. You can connect with professionals or peers. We were trying to solve the problem in which students waste countless hours and dollars trying to find the right field of study. Career Ready gives you insight into what different jobs and fields are like, without having to try them out yourself!

Process

We followed a design thinking model for the creation of this product:

1. Insights & Hypothesis

Interview students to learn:

Specific painpoints of this problem

Other places where some of these pains are relieved

What helped students find their major/career path the most

2. Brainstorm Ideas & Business Model

3. Market Analysis

Interview students and university employees to learn:

Who would pay for this kind of service?

Validate needs— rising student debt, pressure on Millennials to “find a passion”

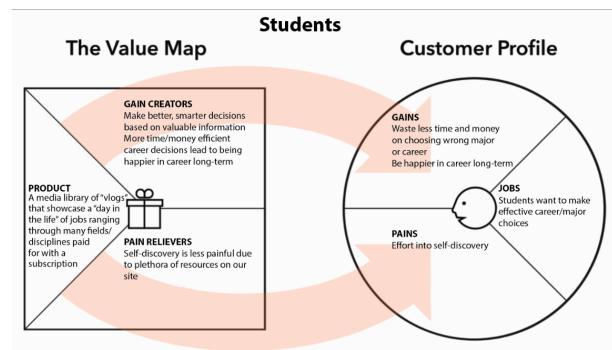
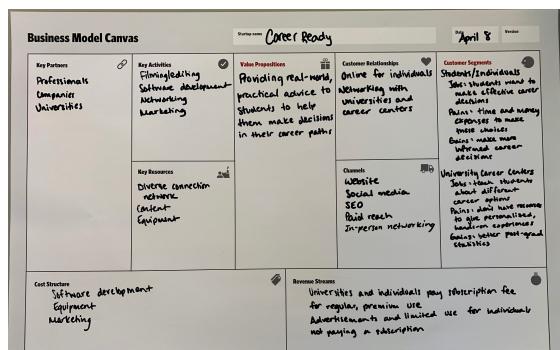
4. MVP

Design an MVP application for the idea

Make a prototype, and use it to test with potential users

Get feedback

- People have trouble making career choices
- People are willing to put in effort to make the right choice
- Current system is ~~worse~~ ~~not working~~
- People don't fully know
- People don't enough resources/experience
- People are stressed about it for college
- Job like education & freedom, security
- Colleges want to help make right career choice
- Companies want to inform
- Companies want to have social interaction
- Professionals willing to help set free / give advice
- Some students don't know career they want
- Technology is going to not change much
- Tech is capable
- VR will become a consumer trend
- Students in a day in the life/behind the scenes
- Students will be willing to pay lots of money
- More careers than majors
- Job wants to work more efficiently
- There is not much competition in market currently
- Students & professionals want to connect
- Students & professionals want to experience



Low Fidelity Mock-Up

