web software engineer
Hello, My name is Qi Liu. I am a graduate student in the Electrical and computer engineering major in Carnegie Mellon University. I graduated in December 2017. I am passionate about software engineering. I love to solve hard problems. I am eager to learn new tech knowledges. And I am good at learning new technologies. During My summer intern, I work with web development team in a steel trading company. and I'm in charge of implementing steel index map and tabulating data. The framework we use were Spring MVC. Besides, four of my projects on resume are about building websites. They are feedback collection application, Mock Internet Trader, Nano-Blogging site and My favorite movies. Two of them have been deployed to AWS EC2.
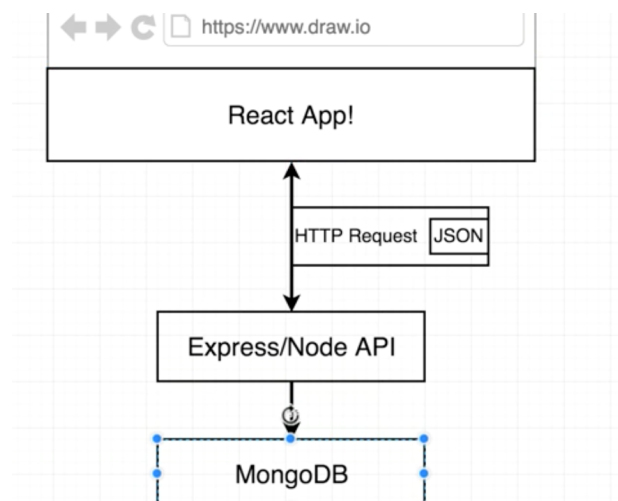
I'm looking for a software engineer position. I choose Youtube because I love the product of Youtube. I have used Java charts to draw flow chart and UML in team work. It's very convenient for team work. I think Lucid must be a very good company because Lucid charts is a very amazing product. I hope I will have opportunity to work with Lucid.

1. It's a feedback collection application
overview: This application allows a startup owner or a product manager easily send out email messages to bunch of users to collect feedback.
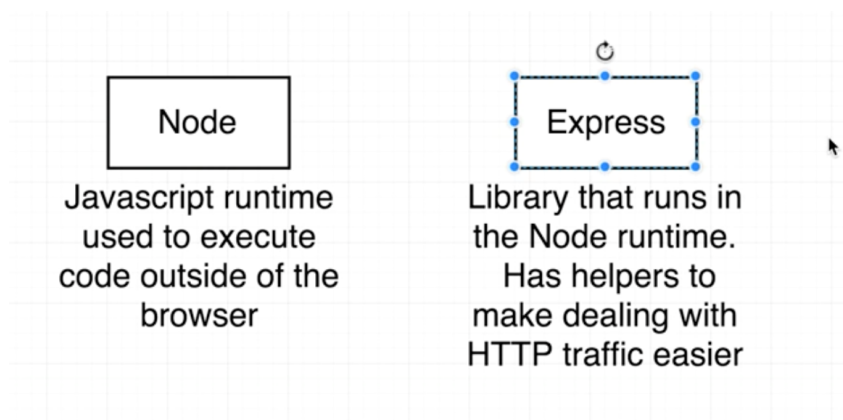Architecture:
1) handling google oauth authentication: use Express back end server, and store user information inside of Mongodb to handle actual authentication.
2) Payment. I used third party service called stripe for handling everything around billing of our application.
3) Create new campaign. I used react and redux whenever the user starts entering the lists of emails or some details about what they want to collect.
4) User enters lists of emails to send survey to. I use react, redux and redux form.
5) Send email. User email provider
6) Surveyees click on link in email to provide feedback. using a combination of the email provider, Express backend and the Mongoldb database.
7) We tabulate feedback. Mongo
8) User can see report of all survey responses. Use Mongo. I pull out all the feedback we've been given out of our database and then present the report using react and redux.
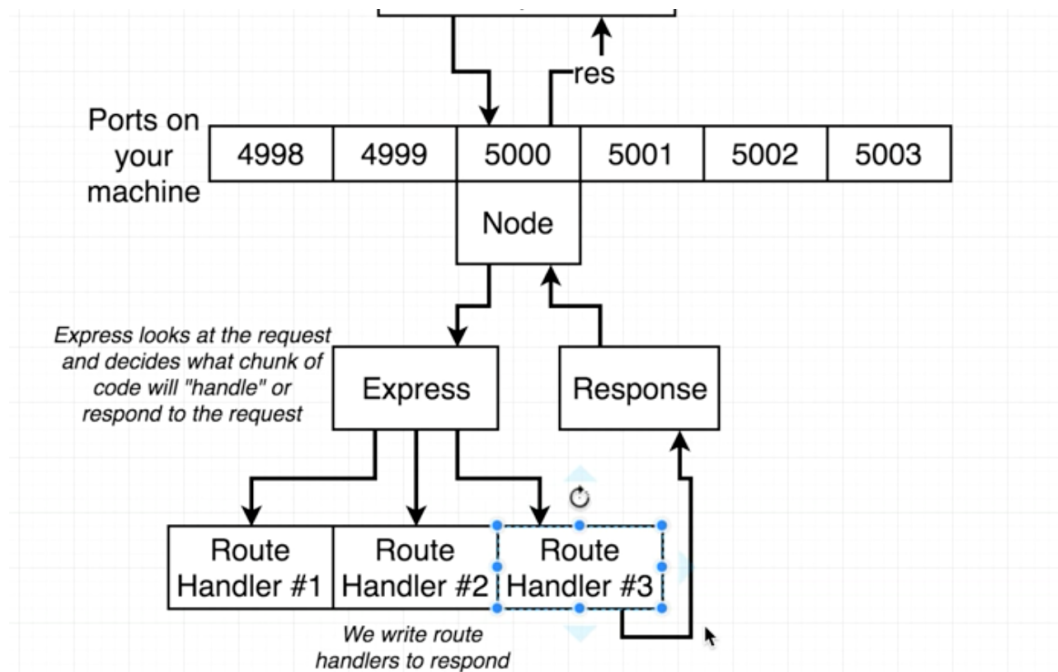
user go to website. server send back html doc and js files containing react app.
react app boots up. It asks the express api for some data.
express api pull some information out of the Mongoldb database and then sends that back.

the react app and express api communicate through ajax request. Every request will contain
some little amount of jason.

Node	Express
Javascript runtime used to execute code outside of the browser	Library that runs in the Node runtime. Has helpers to make dealing with HTTP traffic easier

express is just a helper thing.
node actually handle all the http traffic
in express we wrote route handlers. we might have a route handlers for authenticate users.

```
                              ↑
                         ┌res
Ports on    ┌──────┬──────┬──────┬──────┬──────┬──────┐
  your      │ 4998 │ 4999 │ 5000 │ 5001 │ 5002 │ 5003 │
machine     └──────┴──────┴──────┴──────┴──────┴──────┘
                              Node

Express looks at the request
and decides what chunk of        Express        Response
 code will "handle" or
 respond to the request

              Route      Route      Route
            Handler #1 Handler #2 Handler #3

                    We write route
                   handlers to respond
```

2. Mock Internet Trader

Mock Internet Trader (MIT) is a mock trading website for novices to practice stock investments. It simulates real world trading by allowing users to perform stock transactions with virtual currency (but with zero true value). Users can make purchasing decisions based on real-time stock market statistics, and the website will calculate and update their net profit on the fly. The website will also display a real-time leader-board demonstrating the rankings of the earnings of top registered users. The website also provides a watchlist for each user that lists their followed stock statistics. MIT will ideally serve as an introductory trading platform for traders who want to learn about finance and investments without having to bear risks due to the volatility of the market.

3. Nano-Blogging site

Nana-blogging site is like a small version of twitter. User can post messages and comments, upload photos, follow other people. The website update in real time using ajax.The framework is Django.

4. My favorite movies

My favorite movies is a website built for managing users' favorite movies. User's can create comments. User can follow other people so they can see other people's favorite movies. I used Java MVC to build this website. Model-View-Controller

What technology stack used in the web development team?
I'd like to know more about recruiting process.

Let's imagine. If you are like a startup owner or a product manager you are someone has created and deployed some type of application or service. Recently, your users seemed to just suddenly stop using your application altogether. So what is step one of figuring out why people are quitting your application. You should ask user why they quit. At some point in time, you want to collect some amount of feedback from your user so you can understand why people are using it why they are not using it and how you can make your application better.
Ideally, you might decide to send a bunch of all of your customers so like maybe 20 50 1000 customers a single e-mail that says hey it would be great if you could give me some feedback so I can better understand how you use our app and whether or not you enjoy it.
So this application allows a startup owner or a product manager automatically go through this process. application enable them very quickly and very easily send out email messages to bunch of users to collect feedback.