Cot Topic Design Document

Period 9

Team and Roles:

- Pratham Rawat
    - Project Manager
- Junhee Lee
    - Routing
- David Xie Deng
    - HTML and CSS
- Manfred Tan
    - Backend and database

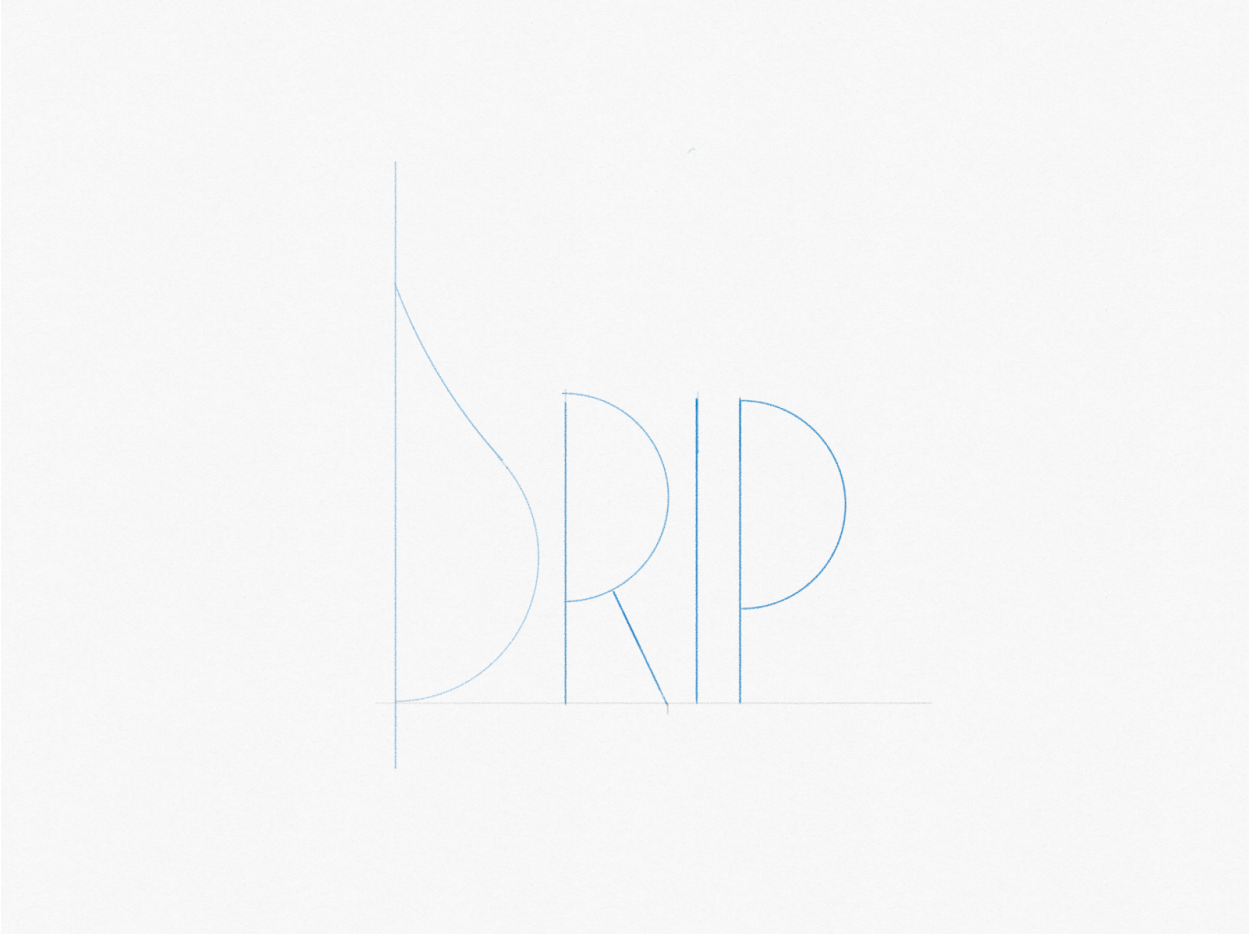
Idea:

Many of us lead busy lives, with fashion being an integral part of our identity. However, fashion can often be cumbersome, especially when waking up early and rushing to leave on time for our responsibilities. That's why we invented "*Drip*", a weather based fashion app.

The flow starts with creating an account. *Drip* automatically has a preset wardrobe with common items of clothing: pants, shorts, hoodies, etc. However, it is easy to add or remove these items, and easier still to dive deeper and add all of your different items of clothing. Drip will work well either way.

Drip also learns from your preferences, every morning it greets you with a number of wardrobe ideas. You choose which one you go with in the app, or none of them. Drip will take the combinations you have into account, and tailor your suggestions to your choices.

Design:

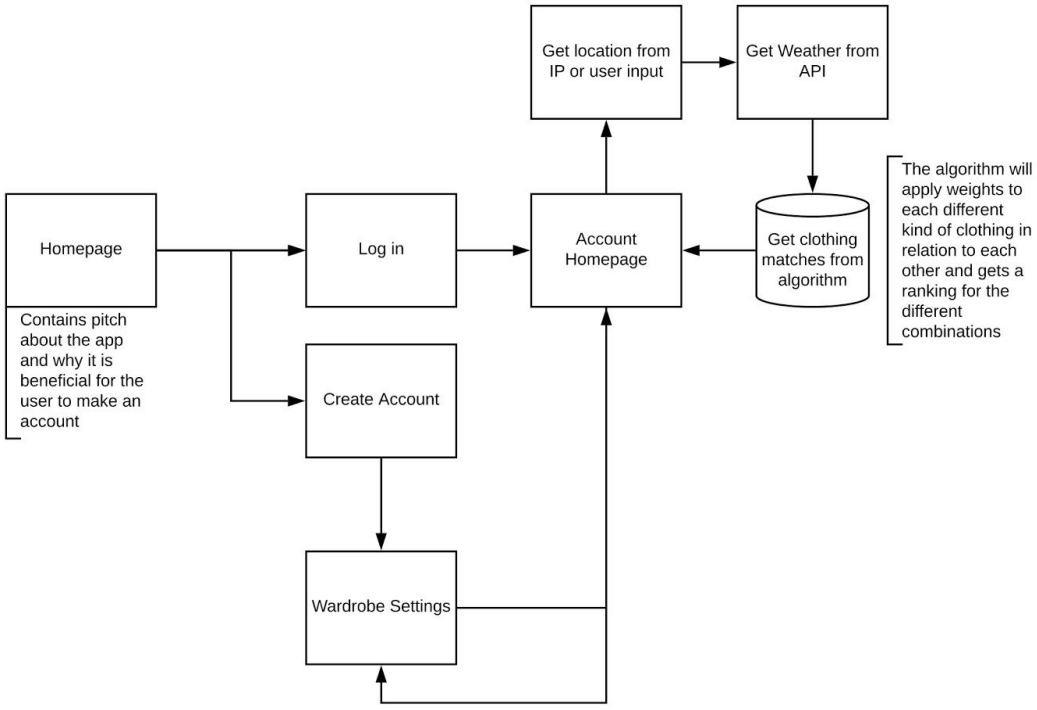


Logo Design

A lot of thought will be placed on the design of different features of the app in order to make mundane actions as seamless as possible, such as changing settings and adding to the wardrobe.

With regards to the database, there will be an accounts table with usernames and password hashes stored. There will also be tables for every account, listing the articles of clothing that the account holds, as well as tables for holding the weights each article has which each other article.

Site Map:



Development Route:

1. Develop Login Functionality
    a. Simple Logging In
2. Get Location and Weather from APIs
    a. If IP Geolocation is not possible, use user input
    b. Display the weather on the account homepage
3. Develop Per User Settings for Clothing
    a. Create databases for items of clothing
    b. Allow users to create/remove articles of clothing
    c. Connect articles of clothing with a weight together
    d. This allows us to post clothing suggestions on the homepage
4. Develop Algorithm for Connecting Clothing using Weights
    a. How much should the weights affect clothing together
5. Develop User Input for Weights

Database Layout

Users table:

Contains users' login information, composed of a user id assigned by the system, a username and password, as well as the personal preferences for the clothing (weights)

User ID	Username	Password	Clothing Weights
0	pratham	**********	[...]
1	junhee	**********	[...]
2	david	**********	[...]
3	manfred	**********	[...]

Clothing table:

Contains the details identifying items of clothing, as well as the user than possesses the item.

Clothing ID	User ID	Name	Picture
0	0	"Yellow T-Shirt"	<link>
1	2	"Yellow T-Shirt"	<link>
2	0	"Skinny Jeans"	<link>

APIs Used

- IP location - to determine the general location of the user. Link: https://docs.google.com/document/d/1FazBlCH4SoM5bKaCs5vr4B7aEgTUVlvFv-1W-LoQmUA/edit?usp=drivesdk
- Metaweather - gives a forecast to the user, and gives site information to decide clothing choices. Link: https://docs.google.com/document/d/18uyXB5XPFQoGFJpoa2yQvRPhevc3HaBU4kO-OYN-ieY/edit?usp=drivesdk