

# Initial Design Concepts

## Team #25

MoonDeal

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Our project's initial design concept involves creating views for our Chrome extension and mobile app, which will be functional on Android and iOS platforms. MoonDeal will find the lowest prices for user-selected products so they can make informed decisions as a consumer to purchase items from the cheapest vendor.

The chrome extension will include the ability for the user to sign in and sign up to manage their account. It also will give the user the ability to view their account settings. Lastly, the user can click a button to add the product to their account and get the cheapest price for that particular product.

The website view includes a navigation bar for easy access to various extension components, including a search feature, a page for trending products, an about section, a settings page, and a section to check out any products you have added to your cart. The design involves the home screen showing a variety of products as cards containing relevant product information such as the product's name, the best price, and the average price offered across a variety of vendors, as well as a link to view the product's history to see if you are getting a good deal.

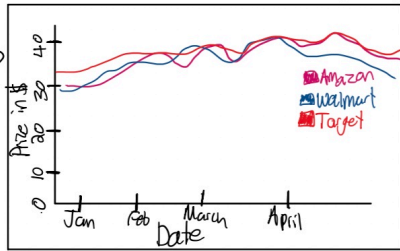
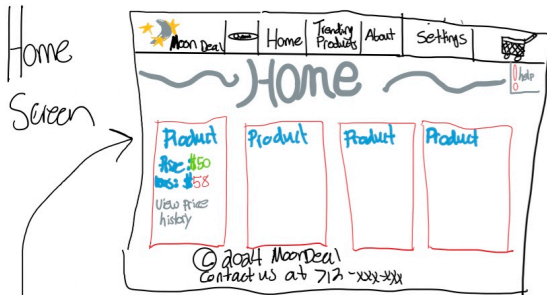
On the technical side, we plan to leverage AWS to host our extension during development. We can use AWS Cognito to simplify the process of account registration and logins. Initial product data can be pulled via web scraping. DynamoDB or MongoDB can be leveraged as NoSQL databases to store the data for tracked products.

In addition to the Chrome Extension, our design concept includes a mobile app that will use React Native to enable cross-platform functionality. AWS Amplify could be a viable tool to simplify our mobile app development because it supports React Native and helps to accelerate mobile-app development.

The mobile app will have a login screen that will prompt the user to register an account or sign in if they already have an existing account. Once signed in, the user will have a similar view as they would from the Chrome extension, including a navigation bar and a list of product cards with relevant information related to the product and its price history and different vendors.

# Initial Design Concept

Website



- Product data pulled from external APIs
- Data stored in AWS S3
- Database of MongoDB

- Website hosted on EC2 instance
- Once fully developed, we will rehost to google chrome extension store

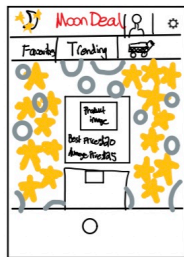
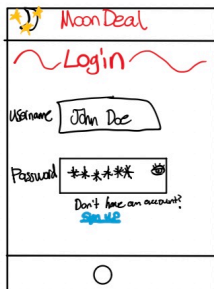
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If data is already in the system, Compare the current price with the database's Price

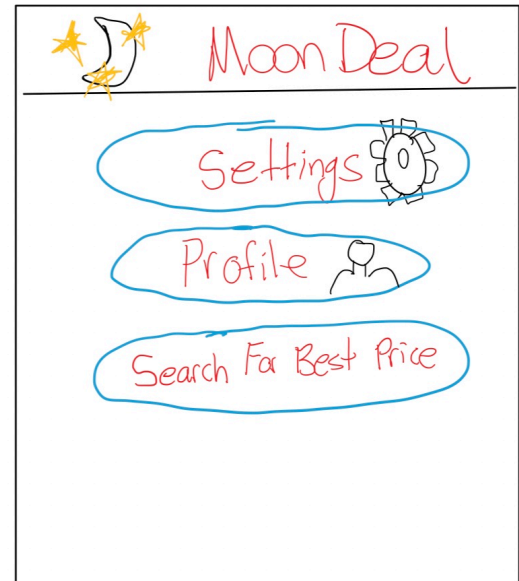
## Mobile App

- Written in React Native for both iOS + Android support
- Could use AWS Amplify for development which supports react native



Leverage AWS cognito to simplify the sign in/sign up registration process

# Chrome Extension

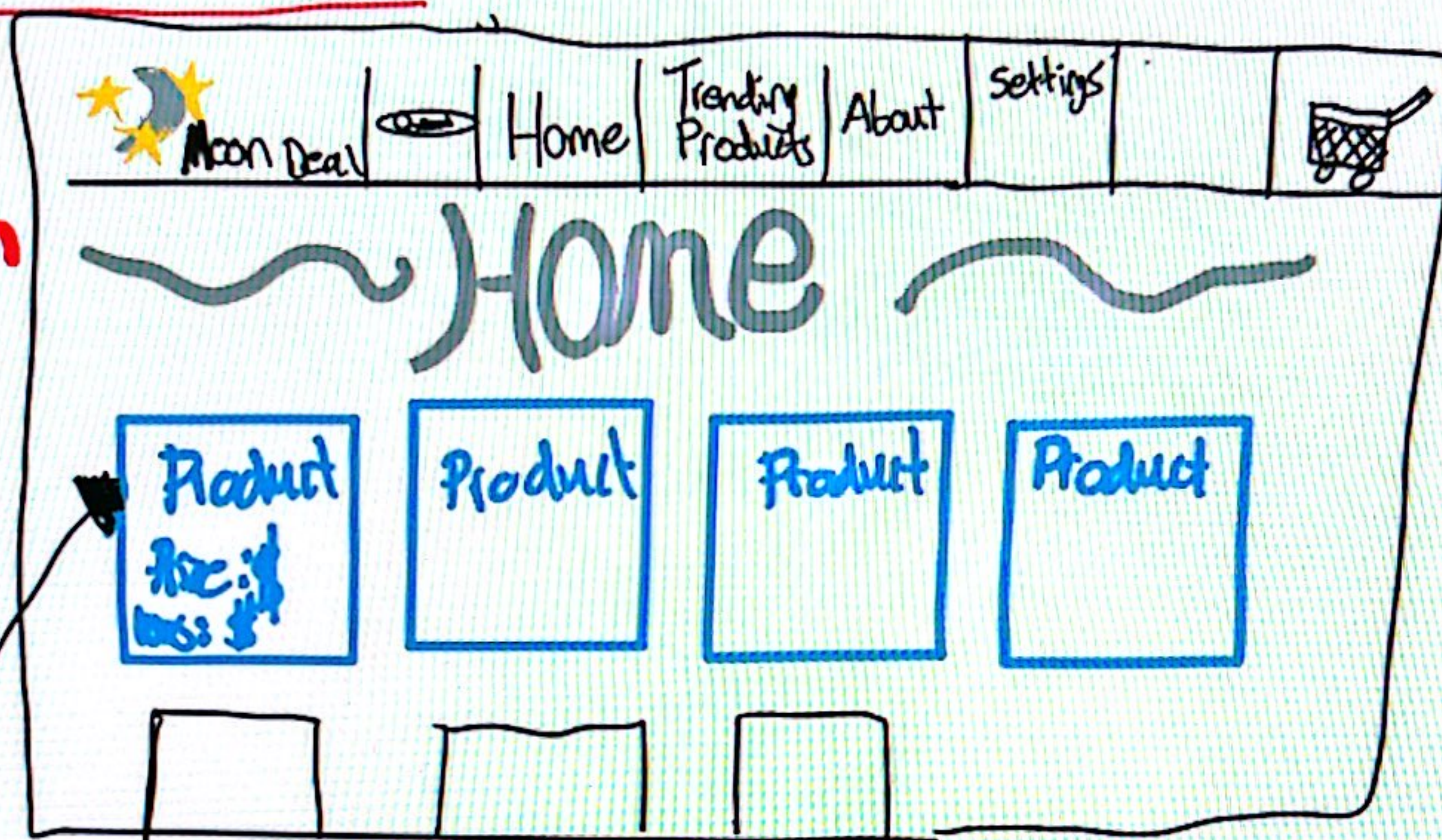




## Initial Design Concept

Chrome  
Extension

Home  
Screen

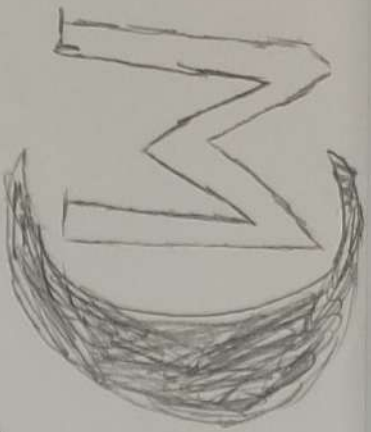


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Contact us at 712-xxx-xxx

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- Data stored in AWS S3
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AWESOME  
Deal!



AWS

services  
lambda  
databases

\$ \$

Mean Deal

Elyse Krieger

Team: 25

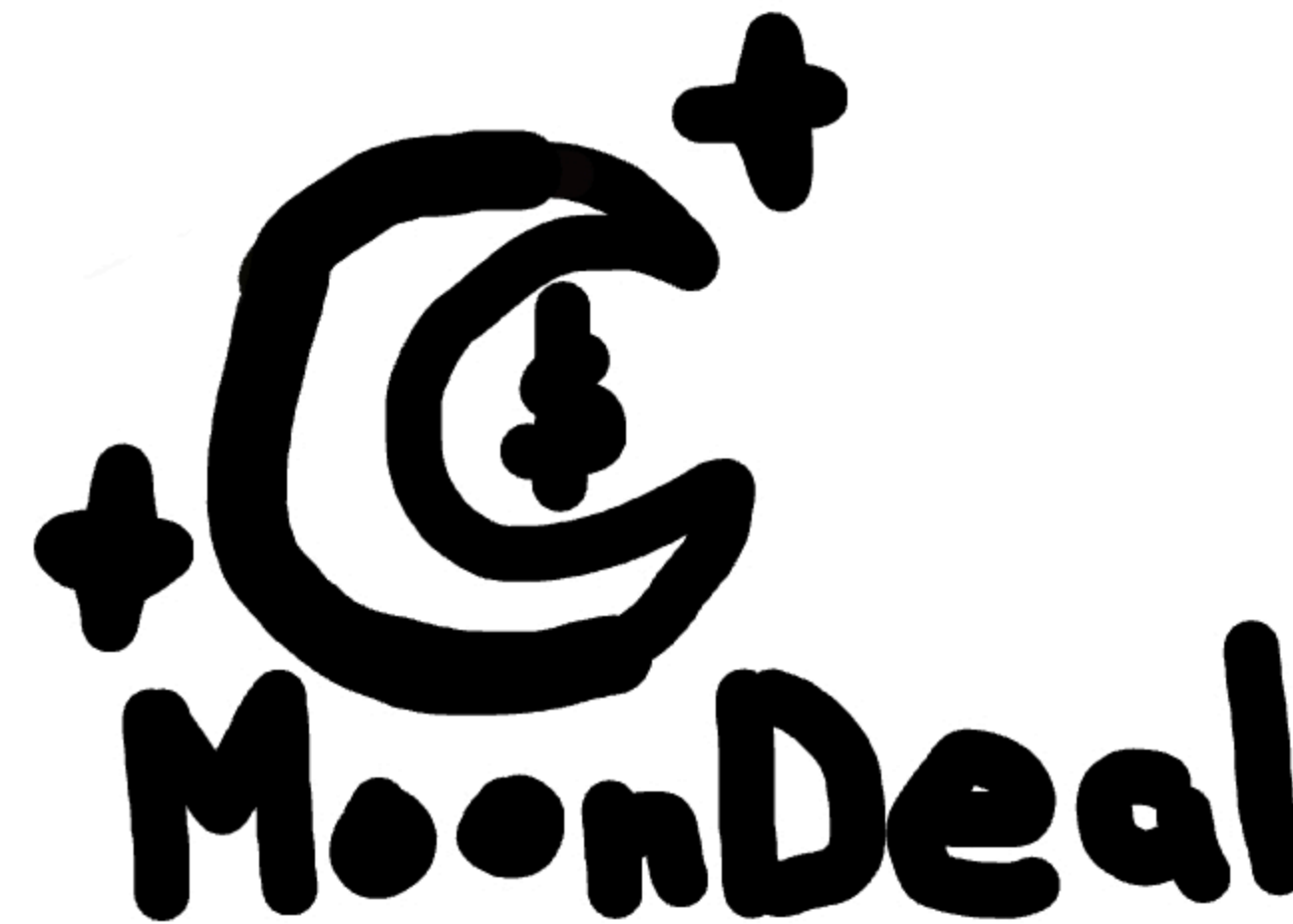
# Gavin's Sketchnotes

## Technologies:

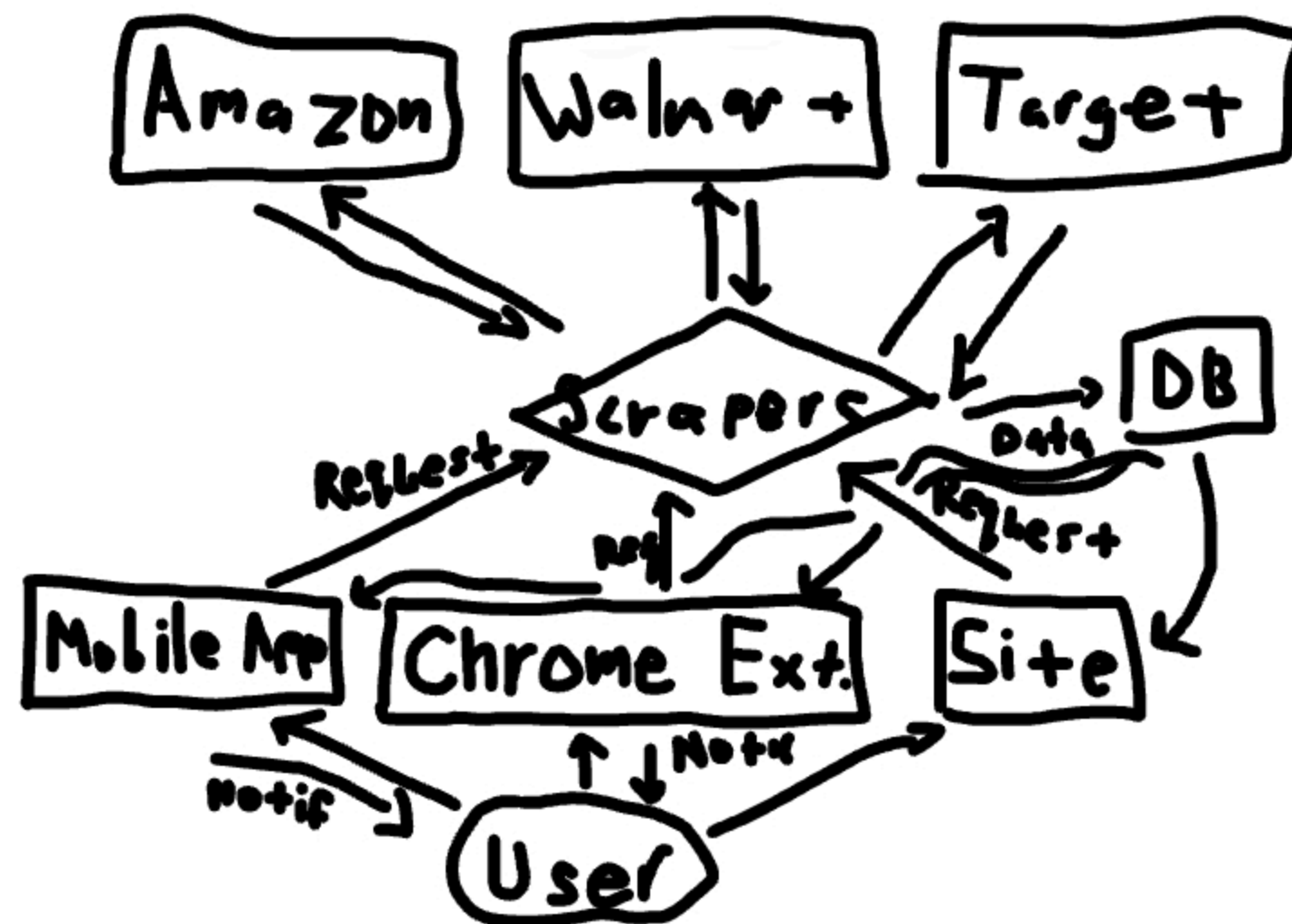
- Chrome Extension
- React Native App
- SQL DB
- AWS Hosting

## Features:

- Add items to "cart"
- Notifications for when price of cart item drops
- Sharing promo codes



## System Overview:



## High-Level System Flow:

- User uses app (extension, mobile, site)
  - >App Checks DB for deals
- >If none, app calls scraper with request
  - >Scraper finds data from request
  - >Scraper sends data to DB
  - >DB sends data to app

# Initial Design Concepts

Kolby Kucem

MOON DEAL TO THE PHONE



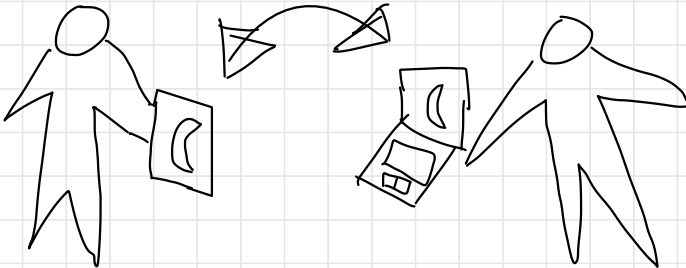
Manage Account



Adjust Preferences



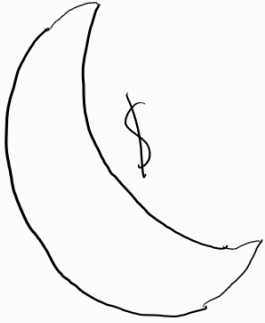
Browse Product Updates



Logan Roe  
SD May 25-25

Logo

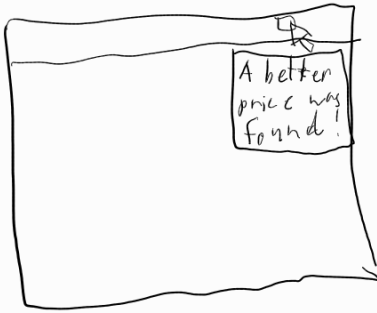
Moon Deal



Concepts

## ● EXTENSION

- When clicked: Display if the user has the best price or if better was found elsewhere



## ● APP

- Give notifications when products being watched decrease in price on desired websites



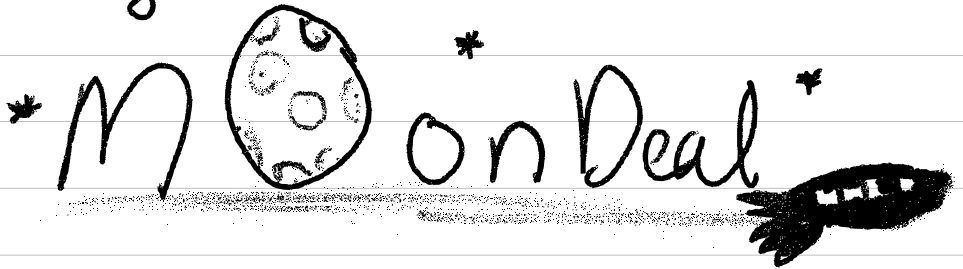


# Zach's Sketch Notes

Logo:



Loading Screen:



Virtual Cart:

