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Like You Search

by

Gipson Bachman

A capstone project presented to the

Faculty of the Departments of  
Computer Science and System Engineering  
Loyola Marymount University

In partial fulfillment of the  
Requirements for the Degree  
Master of Science in Computer Science

April 28, 2022



**Find social media  
influencers that look  
like you.**

# *LIKE YOU* search

**Gipson Bachman**

**Course**

CMSI 694 - Capstone

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Seaver, Computer Science: Dr. B.J. Johnson

**Date**

April 28, 2022

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# Executive Summary



## Background

- 49% of consumers rely on trusted social media influencers for recommendations when making purchase decisions.
- Majority of consumers prefer following influencers who look and act like them, instead of celebrities.



## Problem

There's currently no online destination where consumers can easily find social media influencers that look like them.



## Methodology

Software Development Life Cycle (SDLC) Waterfall Model



## Opportunity

Building a website that fills gap in the market by providing users with an easy way to find social media influencers using customizable search parameters.



## Conclusion

- **Design:** all design decisions to be geared towards consumer.
- **Format:** website format best for initial MVP due to time constraints.

# Methodology

Define MOE's  
Establish Baseline  
Market Analysis  
Trade Study  
Stakeholders Analysis

Requirements

Design

Development

Testing

Deployment

Maintenance

Waterfall  
Model

# Measures of Effectiveness



## **Timeliness**

There's currently no website where users can easily find influencers that look like you. A central MOE relies on being the first product to answer this gap in the market.



## **Ease of Use**

Website must be intuitive and easy for users to find influencers that look like them.



## **Cost of Implementation**

The MVP must utilize tools that are free and/or low-cost as budget is minimal.

# Scale



- Values given on scale from 1 to 5, 5 being greatest value
- Values given based on professional experience and industry metrics



# Background

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# Personal

## Experience

- 6+ years in influencer marketing

## Motivation

- Not a standard body type, big and tall.
- Hard to shop for clothing, in-person and online.
- Personal sizing can range from XL to 4XL depending on brand, product line and/or supplier.
- **Need** for one-stop-shop to find models/influencers that looked like me using products online.

The collage features a variety of brand logos including: BBC AMERICA, WGN america, IHOP RESTAURANTS, BET NETWORKS, Ford, Toyota, TAMPICO, planet earth, CHAPMAN UNIVERSITY, ORLANDO WHERE CREATIVE THINGS MEET™, TopGear, WELLA, FritoLay Good fun!, CLAIROL PROFESSIONAL, AZING, Tide togo, RingPOP, REDVINES, Chateau by Michelle, Fixodent, WYNDHAM HOTEL GROUP, UNIVERSAL, UNIVERSAL MUSIC GROUP, Circle K, Only Vegas, DODGE, kmart., SEPHORA, BARE ESSENTIALS, BEVERLY HILLS, MITSUBISHI, LIVE NATION, SCION, and Cracker Jack.

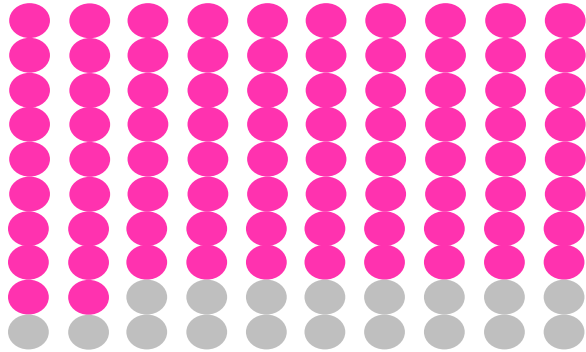
The photograph shows three people smiling: a young woman with long dark hair, a man with a beard wearing a plaid shirt over a white t-shirt, and an older woman with short brown hair wearing a dark top and a gold necklace. A small inset photo in the background shows a person wearing a purple hat.

Picture: Cousin, myself, grandmother

# Marketing

# 82%

Of consumers trust social networks to guide purchasing decisions



Source: Digital Marketing Institute, Influencer Marketing Hub, HuffPost



# 49%

Of consumers rely on social media influencer recommendations for these decisions

# \$13.8<sub>bn</sub>

The amount marketers spent within the influencer space in 2021

# ROI

Influencer marketing campaigns earn \$5.78 for every dollar spent

# Fashion Industry

2022 metrics

**36%** of total fashion sales will be online

**911mm** global online consumers

**\$765bn** global online fashion market

Source: Entrepreneur.com, MediaKix

**30%**

of all fashion related products bought online are returned compared to 8.9% when bought at brick-and-mortar stores



Are there any  
companies  
currently  
speaking to this  
unique problem?  
**Market Gap**

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Brand  
POS  
Website

True Fit is the only platform that solves online apparel fit at scale.

### Pros

- Consumer-driven
- Easy to find your size across a broad range of brands/suppliers
- Serves 17K brands, \$250 billion in cross market buying behavior, and first party preference data from over 200 million registered True Fit members.

### Cons

- **Zero tie-in with the growing influencer market**
- Focus on fit only, limited applications to fashion/clothing industries
- Only available to paying brands, high barrier of entry cost
- Hard to visualize fit, consumer must trust TrueFit's proprietary algorithm.

The image shows a composite of three screenshots from a brand's online retail interface. The top-left screenshot shows a product page for a 'FORCE FERNDALE ZIP-FRONT HOODIE' with a 'WHICH SIZE FITS ME?' button circled in pink. An arrow points from this button to the top-right screenshot, which is a 'Questionnaire' titled 'WHAT IS YOUR BRA SIZE?'. This questionnaire includes fields for 'BAND SIZE' and 'CUP SIZE', and 'BACK' and 'NEXT' buttons. A pink arrow points from the 'NEXT' button to the bottom-right screenshot, which is a 'Suggested Sizing' screen. This screen shows a model wearing grey trousers, a size selection menu with '1X' highlighted, and a 'RETURN TO SHOPPING' button. The 'Suggested Sizing' section is also circled in pink.



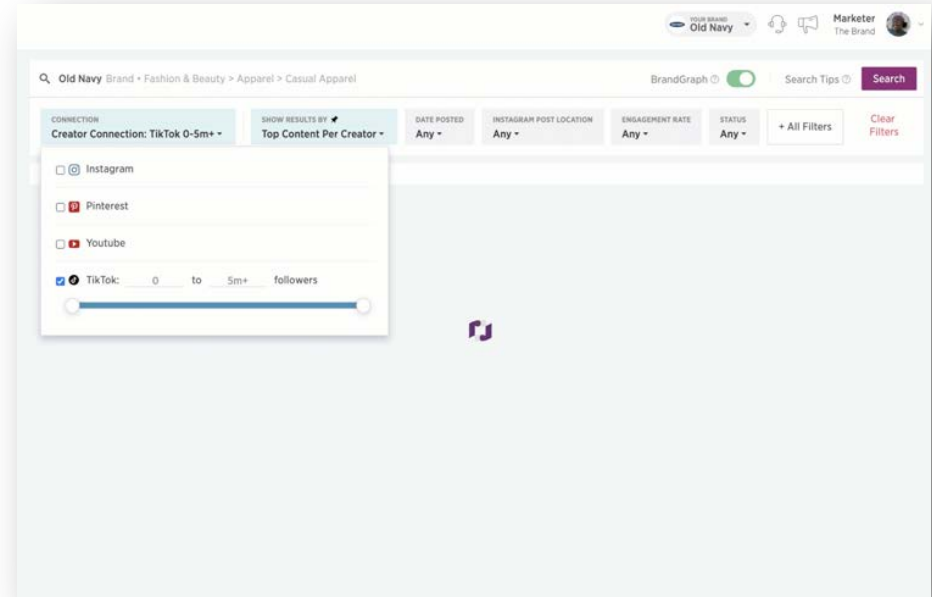
Izea is an influencer search solution enhanced by “artificial intelligence and machine learning.”

### Pros

- Great for PR and brands to identify strong performing influencers within an array of broad categories (beauty, fashion, regions, etc.)
- Get content engagement, audience and performance data behind each influencer
- Campaign integration for easy influencer outreach campaigns

### Cons

- **Not consumer driven**
- Only available to subscribers, high barrier of entry cost (\$189/month)
- AI/ML claims questionable
- Cannot search based on appearance/fit



# How can you currently find influencers online? **Current Baseline**

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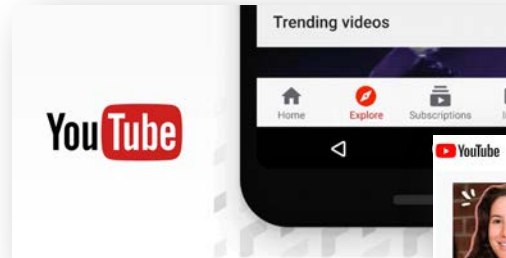
# Organic Discovery

When consumers find influencers through their own discovery on the internet.



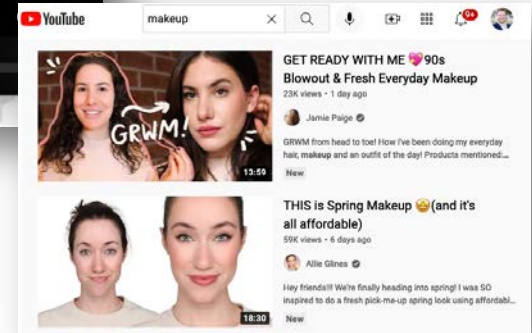
Increasingly becoming more paid, either directly through paid search or indirectly through earned media (e.g. Digital Promotions, Public Relations).

## Explore Tab



from the main page or "Explore" tab of a social network

## Keyword Search



from a user's own keyword searches on the network itself or search engine like Google/Bing.

# Influencer PR Lists

Searching the web for "lists" of a type of influencer.



These outlets lack search customization (if any) and are geared towards professionals within public relations and digital publicity circles, not consumers themselves.

## 7 South Asian Influencers That You Need To Follow 18 Black Instagram Fashion Influencers To Follow Right Now

10 MALE FASHION INFLUENCERS YOU SHOULD BE FOLLOWING ON INSTAGRAM

The image shows a screenshot of a social media search results page. The search term is "Izzie Odigie". The results are displayed in a grid format. The top result is for "Izzie Odigie", who is an artistic creative director and choreographer. Her profile shows 623K followers, a 3.98% sponsored rate, and a 95% audience authenticity score. Below her profile are several recent content thumbnails. The second result is for "SarahFunky", an Atlanta-based influencer. The third result is for "Ashley Armstrong", a United States-based influencer. The fourth result is for "Izzie Odigie" again, showing her engagement rate by follower (3.95%) and by subscriber (5.28%). The fifth result is for "Ashley North".

## Problem

**There's currently no online destination where consumers can *easily* find social media influencers that look like them.**

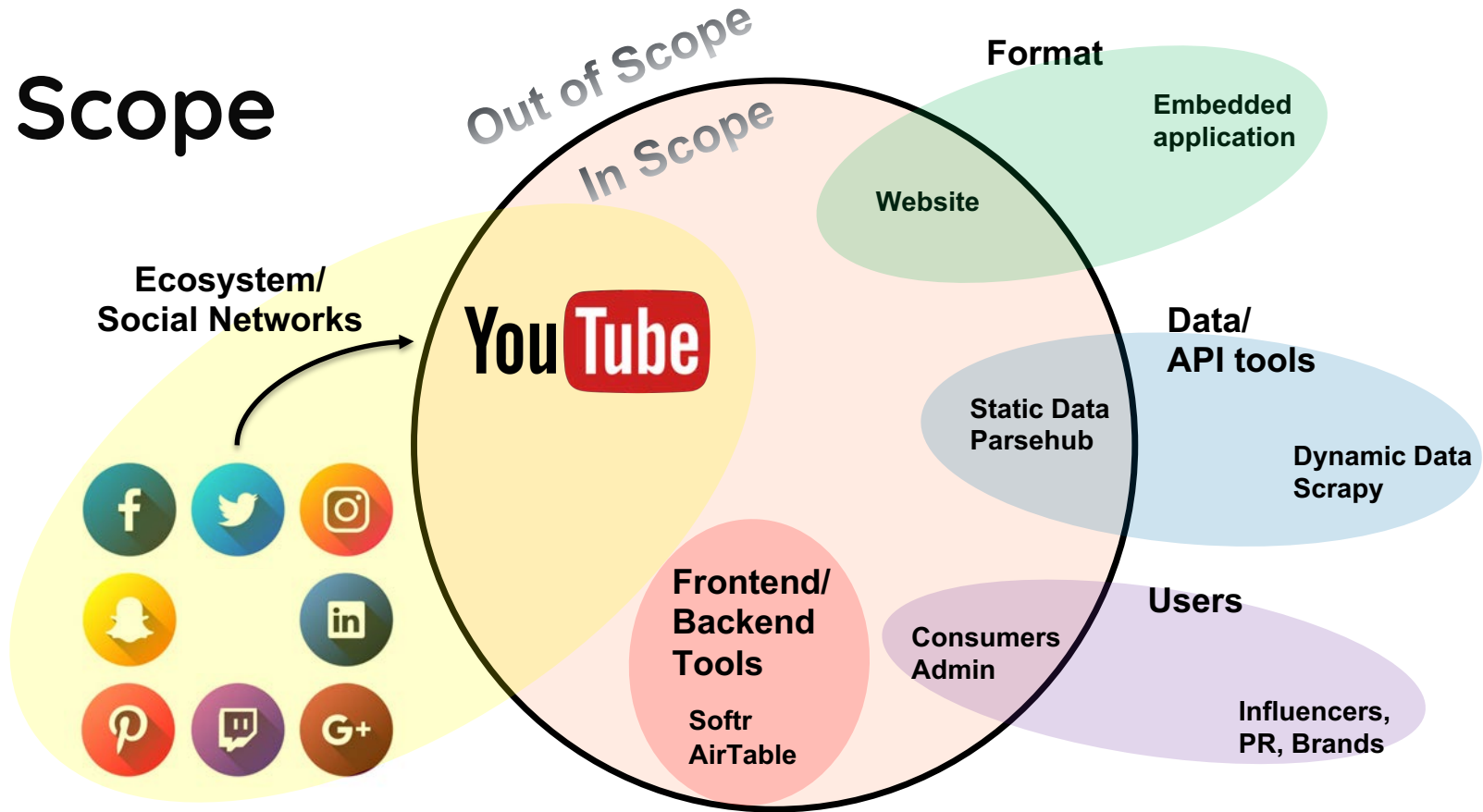
## Solution/Objective

**Building a website that fills gap in market by providing users with an easy way to find social media influencers using customizable search parameters.**

# Caveats and Limitations

- MVP to be consumer-driven as it answers immediate gap in market
- Limited time and resources for Spring 2022 Capstone project, choose features and tools based on development window
  - **Data:** scraped manually, wangled and cleaned for inclusion into static database, will not be dynamic
  - **Users:** to focus on general consumer and backend admin, will not support additional users (influencers, PR, brands) at this time
  - **Ecosystem:** must limit size of ecosystem due to cost, will only support one social network
  - **Format:** must choose most time/cost efficient format that the broadest consumer age demographic finds easy to use

# Scope



# Stakeholder Analysis

Most  
Important

1. **Consumers:** product success requires consumer adoption en masse, all design decisions to be based on value added within online customer shopping journey
2. **Admin:** viable products depends on developer/admin to create working, sustainable product
3. **Financial:** leverage key milestones to secure funding
4. **Influencers:** create space that is influencer positive, as influencers themselves can make or break platform
5. **PR/Brands:** integrate opportunities where brands can gain access to network/conversation



# User Analysis

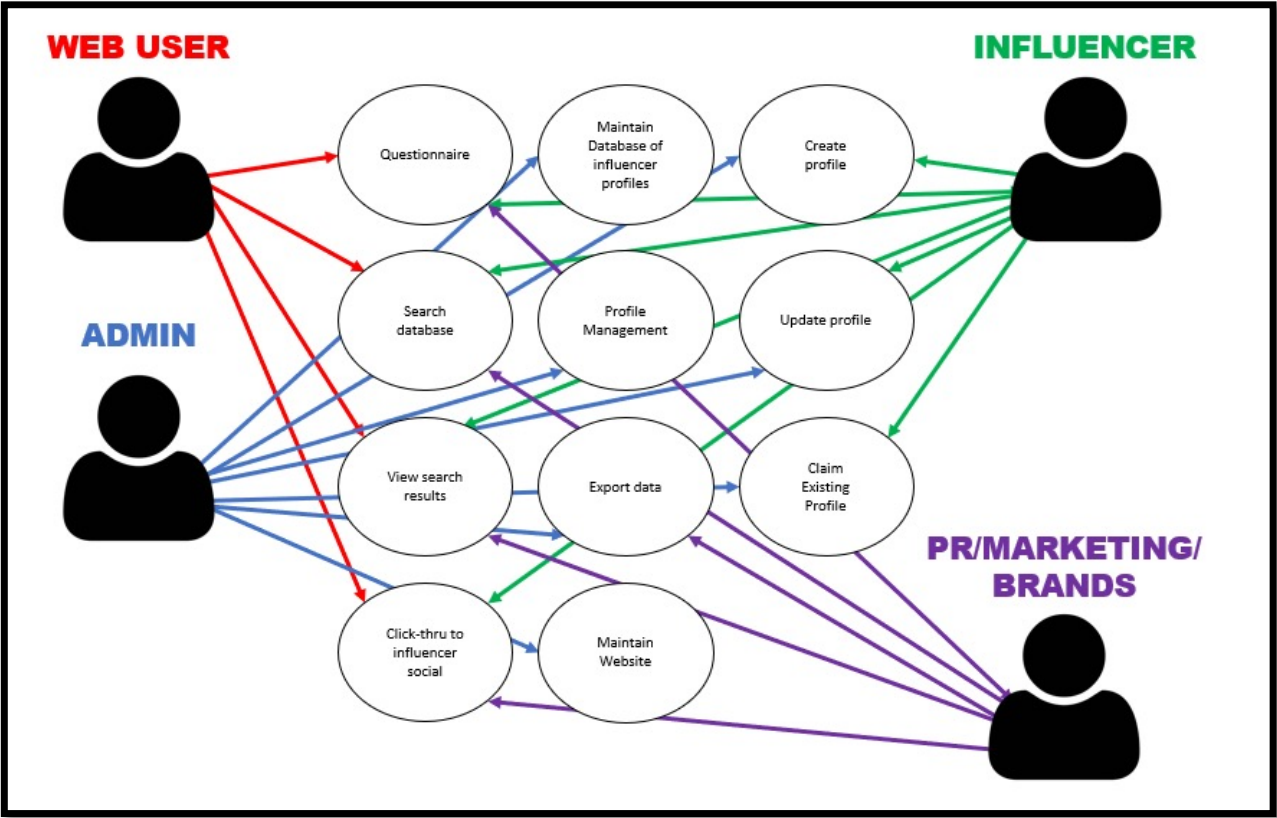
User (Actor)	Actions (Jobs)	Story Ending
<b>Consumer</b>	<ul style="list-style-type: none"><li>• Populate search parameters</li><li>• Find influencers</li></ul>	<ul style="list-style-type: none"><li>• Click-thru to influencer on platform</li></ul>
<b>Influencers</b>	<ul style="list-style-type: none"><li>• Populate search parameters</li><li>• Find influencers (or lack thereof)</li><li>• Create profile, enter self-reported parameter data, contact info</li></ul>	<ul style="list-style-type: none"><li>• Find competition, gaps in market</li><li>• Access to brand sponsorship(s)</li></ul>
<b>PR/Marketing/Brands</b>	<ul style="list-style-type: none"><li>• Populate search parameters</li><li>• Find influencers</li><li>• Pay for influencer introduction</li></ul>	<ul style="list-style-type: none"><li>• Influencer introduction</li><li>• Brand spotlight within feature/slideshow</li></ul>
<b>Admin</b>	<ul style="list-style-type: none"><li>• Easily manage issues</li><li>• Easily update data</li><li>• Design that easily supports future build out with additional features</li></ul>	<ul style="list-style-type: none"><li>• Issue resolved</li><li>• Data updated</li><li>• Features added</li></ul>



MVP



# User Analysis



# Trade Study

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# Format

## Website

Scale Value: High, 5

### Pros

- Most easily used and recognized format across broadest age demographic
- Complete ownership of full experience, can easily pivot to meet consumer/market needs

### Cons

- Retailers/POS as after-thought, harder to directly correlate purchase decisions as experience leaves holes for organic migration

## Embedded Application

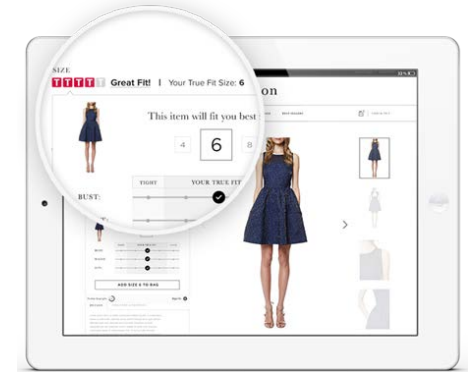
Scale Value: Below Average, 2

### Pros

- Great when success metrics/MOEs directly correlated to driving purchase decisions

### Cons

- Do not own full experience, as it requires third-party to embed on website/POS
- Retailer/brand driven, not consumer-focused
- Requires more time/resources to implement
- Requires participation from select online retailers



# API Tools, Scraping

## Scrapy

Scale Value: Below Average, 2

### Pros

- Free, Open Source Tool.
- Extremely well documented.
- Easily Extensible.
- Portable Python.
- Deployment is simple and reliable.

### Cons

- Time consuming to inspect and develop the crawler to simulate AJAX/PJAX requests.



☆ 43.3k stars

👁 1.8k watching

🍴 9.6k forks

## Parsehub

Scale Value: Average, 3

### Pros

- ParseHub allows you to collect and store data on servers automatically.
- Automatic IP rotation.
- Scraping behind logic walls allowed.
- Scalable.

### Cons

- Not free, pay service



▲  
6 Great support

▲  
5 Easy setup

▲  
4 Complex websites

▲  
3 Native Desktop App

# Scraping, Legality

Is scraping publicly accessible data legal?

Yes, it is!

On April 18, 2022, the Ninth Circuit reaffirmed its original decision and found that scraping data that is publicly accessible on the internet and not copyrighted is **not a violation of the Computer Fraud and Abuse Act**, or CFAA, which governs what constitutes computer hacking under U.S. law.

Source: TechCrunch



# Management Tools

## Frontend, Softr

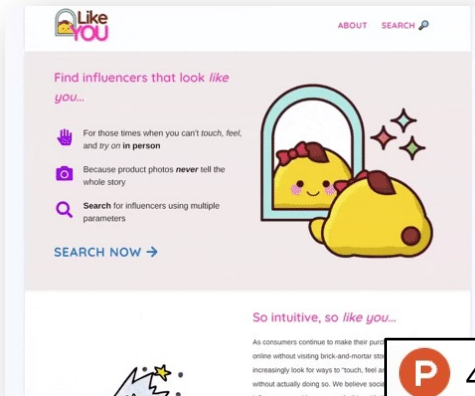
Scale Value: Above Average, 4

### Pros

- easy backend integration with Backend/Airtable via RESTful API calls
- responsive design

### Cons

- limited design features



P 4.5

Source: Product Hunt

## Backend, Airtable

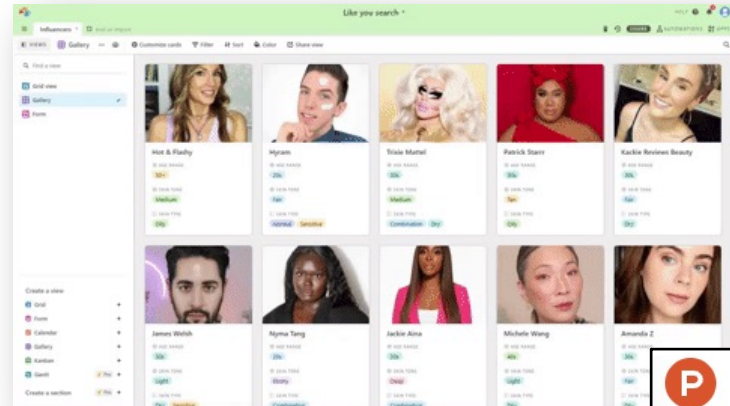
Scale Value: Above Average, 4

### Pros

- easy database management
- multi-user capabilities
- easy integration with other applications via RESTful API calls

### Cons

- does not auto-refresh



P 4.5

# Solution Space

	Techniques or Tools Used	Pros	Cons	Recommendation
<b>Format</b>	<p><b>Website</b> <i>High, 5</i></p> <p>vs.</p> <p><b>Embedded App</b> <i>Below Avg, 2</i></p>	<p><b>Website</b> easy start, responsive design that lends itself to desktop/mobile</p> <p><b>Embedded app</b> retailer-driven</p>	<p><b>Website</b> consumer-driven, retailer as after-thought</p> <p><b>Embedded app</b> best for later-stage retailer-driven rollouts</p>	<p><b>Website</b></p> <ul style="list-style-type: none"> <li>• Most easily used and recognized format across broadest age demographic</li> <li>• Complete ownership of full experience, can easily pivot to meet consumer/market needs</li> </ul>
<b>API Tools</b>	<p><b>Scrapy</b> <i>Below Avg, 2</i></p> <p>vs.</p> <p><b>Parsehub</b> <i>Avg, 3</i></p>	<p><b>Scrapy</b></p> <ul style="list-style-type: none"> <li>• Free, Open Source Tool.</li> <li>• Extremely well documented.</li> <li>• Easily Extensible.</li> <li>• Portable Python.</li> <li>• Deployment is simple and reliable.</li> </ul> <p><b>Parsehub</b></p> <ul style="list-style-type: none"> <li>• ParseHub allows you to collect and store data on servers automatically.</li> <li>• Automatic IP rotation.</li> <li>• Scraping behind logic walls allowed.</li> </ul>	<p><b>Scrapy</b> Time consuming to inspect and develop the crawler to simulate AJAX/PJAX requests.</p> <p><b>Parsehub</b> Not free, pay service</p>	<p><b>Parsehub</b></p> <ul style="list-style-type: none"> <li>• Scraping behind logic walls allowed, needed</li> <li>• Scaleable, best for future</li> </ul>
<b>Frontend/ Backend Management</b>	<p><b>Softr</b> <i>Above Avg, 4</i></p>	<p><b>Frontend, Softr</b> easy backend integration with Airtable via RESTful API calls responsive design</p>	<p><b>Frontend, Softr</b> limited design features</p>	<p><b>Softr and AirTable</b></p> <ul style="list-style-type: none"> <li>• Due to time restrictons, suggest using as both tools integrate nicely together</li> <li>• Plays well with Parsehub for future dynamic data rollout</li> </ul>
	<p><b>Airtable</b> <i>Above Avg, 4</i></p>	<p><b>Backend, AirTable</b> easy database management, multi-user capabilities, easy to scale in future, easy integration with other applications via RESTful API calls</p>	<p><b>Backend, AirTable</b> does not auto-refresh</p>	

# Requirements

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# Requirements

## Software Requirements Specifications (SRS)

The SRS outlines project purpose, scope, definitions, acronyms, abbreviations, and references. The aim here is to gather and analyze requirements while giving an in-depth playbook on how I intend to plan, design, implement and test the website project.

- Website itself – an easy-to follow GUI geared towards general web users
  - Website shall provide a uniform look for all webpages
  - Website shall provide a digital image of each influencer and links to their respective social media platforms
  - Types of GUI interfaces we will use:
    - Menus
    - Dialog boxes for search parameters
- Backend – Database Interface for administrators
  - Form-fill Interface
- Hardware/Software Interface
  - Requires internet connection.
  - Operating System: Windows (Vista/Windows 7) or MAC OS
  - Web Browser: Internet Explorer (8.0 and above), Mozilla Firefox (3.0 and above), or Google Chrome

# Requirements

## Functional Requirements

ID: User Story	Epic	As a <type of user>	I want to <perform some task>	So that I can <achieve some goal>	Acceptance Criteria
1	Website	web user	visit a website where I can describe how I look	find influencers that look like me	<ul style="list-style-type: none"><li>- build working website</li><li>- build all pages that meet design guidelines</li><li>- ensure website connects to backend database</li></ul>
1.1	Search Parameters	web user	use easy search parameters	be easily guided through my LIKE YOU search	<ul style="list-style-type: none"><li>- search parameters successfully guides user throughout search process</li><li>- if user does not complete search parameters, user will be notified of missing fields</li><li>- user can successfully answer each question with check box(es)</li></ul>
1.1.1	Search Parameters	web user	check boxes that correspond to tags within influencer database	easily retrieve results with those tags	<ul style="list-style-type: none"><li>- Each individual check box corresponds with a unique tag in database</li><li>- each check box successfully retrieves influencer listings in database with respective tag/parameter</li></ul>
1.1.2	Search Parameters	web user	be pointed towards an advanced search when there are no results	tailor how broad/narrow my search should be	<ul style="list-style-type: none"><li>- when there are no results on results page, user is directed to advanced search page</li></ul>

# Requirements

## Functional Requirements

ID: User Story	Epic	As a <type of user>	I want to <perform some task>	So that I can <achieve some goal>	Acceptance Criteria
2	Search	web user	search for influencers	retrieve a list of influencers based on a series of search tags/parameters	- uses SQL AND operator exclusively - if multiple tags, search results would show only those that meet tag1 AND tag2 AND tagN
2.1	Search	web user	search based on social media platform (e.g. YouTube)	find platform-specific influencers	- ensure check box in questionnaire successfully matches with tag/parameter in influencer database
2.2	Search	web user	search based on genre/industry (e.g. beauty, fashion, etc.)	find genre/industry specific influencers	- ensure check box in questionnaire successfully matches with tag/parameter in influencer database
2.3	Search	web user	search based on skin tone (e.g. fair, light, medium, deep, etc.)	find influencers that have the same skin tone as me	- ensure check box in questionnaire successfully matches with tag/parameter in influencer database
2.4	Search	web user	search based on skin type (e.g. dry, oily, combo, sensitive, etc.)	find influencers that have the same skin type as me	- ensure check box in questionnaire successfully matches with tag/parameter in influencer database
2.5	Search	web user	search based on eye color (e.g. blue, brown, hazel, green, etc.)	find influencers that have the same eye color as me	- ensure check box in questionnaire successfully matches with tag/parameter in influencer database
2.6	Search	web user	search based on hair color (e.g. blonde, brown, red, black)	find influencers that have the same hair color as me	- ensure check box in questionnaire successfully matches with tag/parameter in influencer database
2.7	Search	web user	search based on age range (teens, 20s, 30s, 40s, 50s, 60+)	find influencers that have the same age range as me	- ensure check box in questionnaire successfully matches with tag/parameter in influencer database

# Requirements

## Functional Requirements

ID: User Story	Epic	As a <type of user>	I want to <perform some task>	So that I can <achieve some goal>	Acceptance Criteria
3	Search Parameters	web user	know the number of influencers that meet my search tags/parameters	tailor how broad/narrow my search should be	- with each check box/tag clicked, refresh # of influencers that meet those tags/parameters at the top of search page - ensure that # provided correctly corresponds with those tagged in database - this would be located on search parameters page AND advanced search page
4	Search	web user	have an advanced search feature	custom tailor my search without the search parameters pipeline	- advanced search page which all grouped parameters located on one page
5	Backend	admin	easily update database	keep data as fresh as possible	- data can be changed/updated easily on backend via web interface

## Non-Functional Requirements

- Secure access
- 24x7 Availability

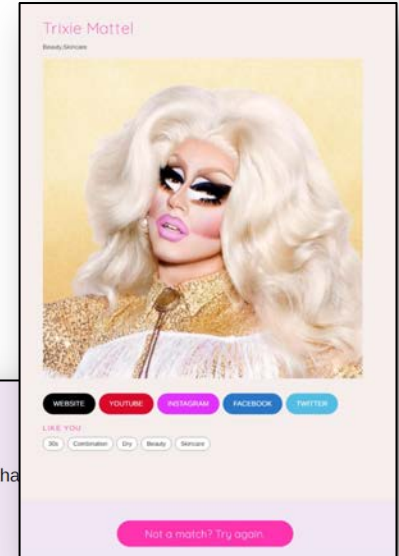
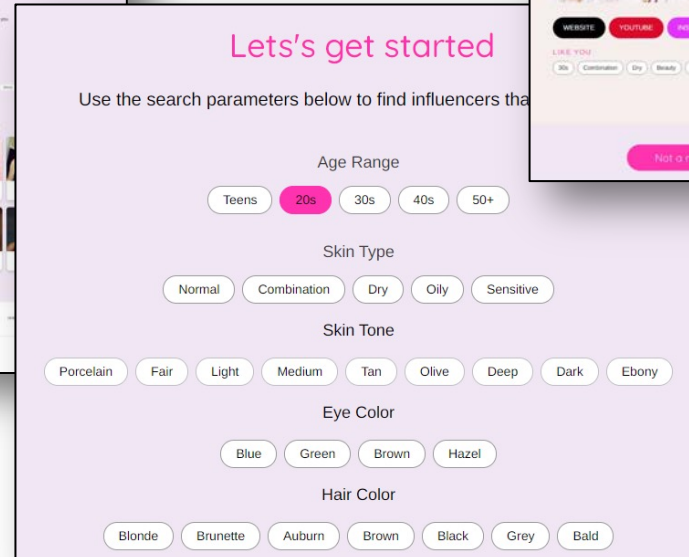
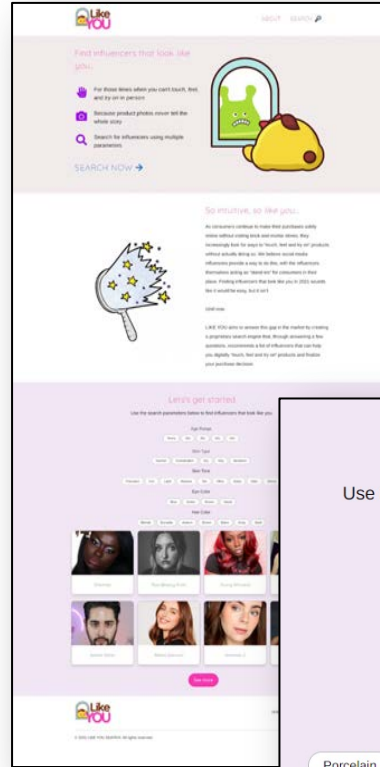
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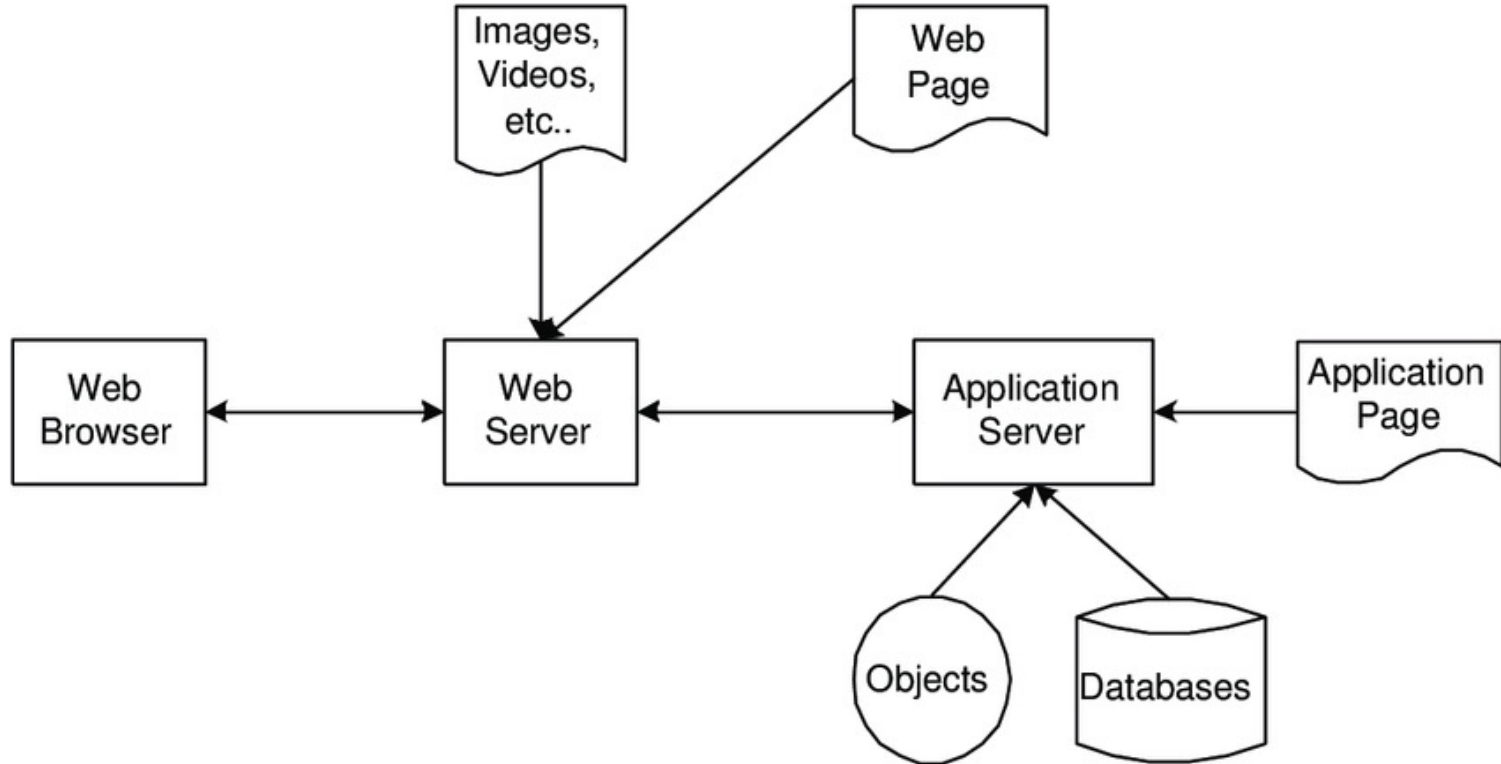
# Intuitive Design

The website is an intuitive design housing:

- intro with call-to-action
- about section
- search/filters with real-time results
- Each influencer result can be expanded for item\_detail



# Architectural View



# Work Plan

Task Name	Duration	Start	Finish	% Complete	Jan							Feb				Mar				Apr				
					19	Dec 26	Jan 2	Jan 9	Jan 16	Jan 23	Jan 30	Feb 6	Feb 13	Feb 20	Feb 27	Mar 6	Mar 13	Mar 20	Mar 27	Apr 3	Apr 10	Apr 17	Apr 24	
- LIKE YOU Website	94d	12/16/21	04/26/22	100%	[Progress bar showing 100% completion]																			
- Phase 1 Initial Research	22d	12/16/21	01/14/22	100%	[Progress bar showing 100% completion]																			
Resarch project idea	22d	12/16/21	01/14/22	100%	[Progress bar showing 100% completion]																			
Competitor analysis	5d	01/10/22	01/14/22	100%	[Progress bar showing 100% completion]																			
- Phase 2 Data Acquisition	21d	01/18/22	02/15/22	100%	[Progress bar showing 100% completion]																			
Acquire data	21d	01/18/22	02/15/22	100%	[Progress bar showing 100% completion]																			
- Phase 3 Build Website	15d	02/23/22	03/15/22	100%	[Progress bar showing 100% completion]																			
Design	5d	02/23/22	03/01/22	100%	[Progress bar showing 100% completion]																			
Implement	5d	03/02/22	03/08/22	100%	[Progress bar showing 100% completion]																			
Test	5d	03/09/22	03/15/22	100%	[Progress bar showing 100% completion]																			
- Phase 4 - Deliverables	16d	03/16/22	04/06/22	100%	[Progress bar showing 100% completion]																			
Improvements	5d	03/16/22	03/22/22	100%	[Progress bar showing 100% completion]																			
Project Report	11d	03/23/22	04/06/22	100%	[Progress bar showing 100% completion]																			
- Phase 5 - Feedback/Correcti	10d	04/13/22	04/26/22	100%	[Progress bar showing 100% completion]																			
Corrections	5d	04/13/22	04/19/22	100%	[Progress bar showing 100% completion]																			
Finalized Project Report	5d	04/20/22	04/26/22	100%	[Progress bar showing 100% completion]																			



# Recommendations to Client

- Most important stakeholder is consumer
  - Market ready for consumer-driven influencer search hub
  - Value resides in consumer trust in influencers
  - Majority of consumers prefer following influencers who look and act like them, instead of celebrities.
- Ease of use key MOE
  - As consumers are key stakeholders, adoption relies heavily on ease of use across broad age demographic
- Suggest clients complement existing services with consumer-driven features

# Demonstration

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# Future Work

## Data

- Add additional social network data for inclusion into Like You
- Expand search parameters to include fit
- Make data dynamic, real-time search

## Users

- **Influencers:** Add capability for influencers to add themselves to database, claim profiles, add self-reported data and contact info
- **PR/Brands:** Monetize database with PR/marketing/brand teams by facilitating influencer sponsorship and product releases/campaigns

# Future Work

## Embedded Application, Brand/POS Focus

- Create embedded application (similar to TrueFit) for brands to embed within POS websites
- After taking a quick questionnaire consumers are shown images of pre-selected brand influencers wearing/using product in suggested size.

Brand  
POS  
Website

FORCE FERNDAL ZIP-FRONT HOODIE NEW!  
\$49.99 STYLE #102529  
★★★★★ 2 REVIEWS | 0 QUESTION, 0 ANSWER

COLOR: Bright Coral

**WHICH SIZE FITS ME?**

REGULAR: XSMALL SMALL MEDIUM LARGE XLARGE 2XLARGE

SIZE & FIT GUIDE

QUANTITY: In Stock 1 - + ADD TO CART

## Questionnaire

TRUE FIT

WHAT IS YOUR BRA SIZE?  
This helps us understand how certain items will fit you.

BAND SIZE CUP SIZE US

BACK NEXT

My Profile Save Account ?

## Suggested Sizing, Influencer Images

Size: 1X [Size Chart](#)

1X 1XP 2X 2XP 3X [View More](#)

Great Fit! Your True Fit Size: 1X. [Learn More](#)

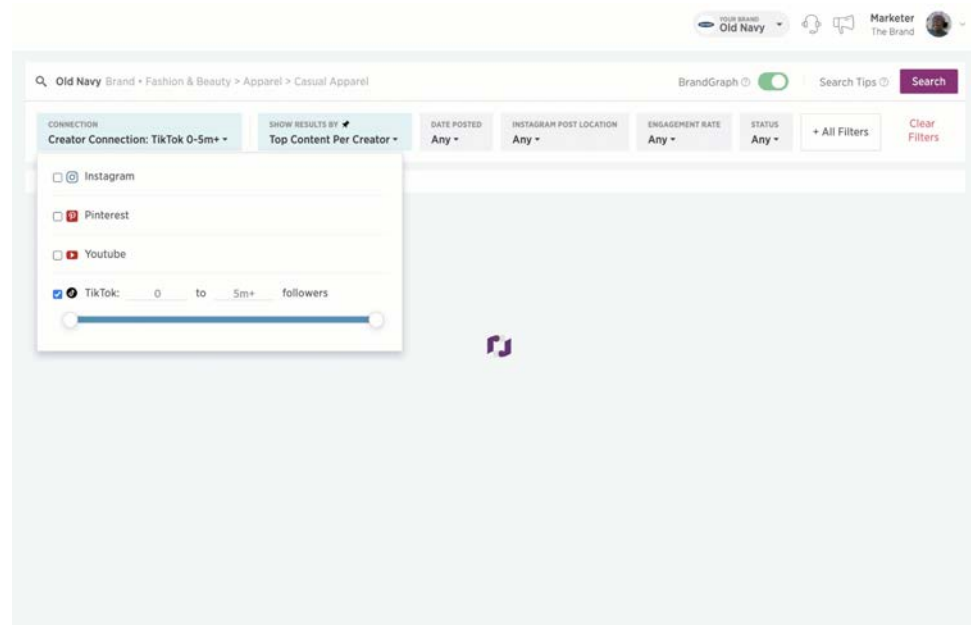
Qty: this item will fit you best in size **1X**

Snug True to You Loose

# Future Work

## Influencer & PR/Brand Monetization

- Build out opportunities for LIKE YOU to connect influencers with PR/Brands



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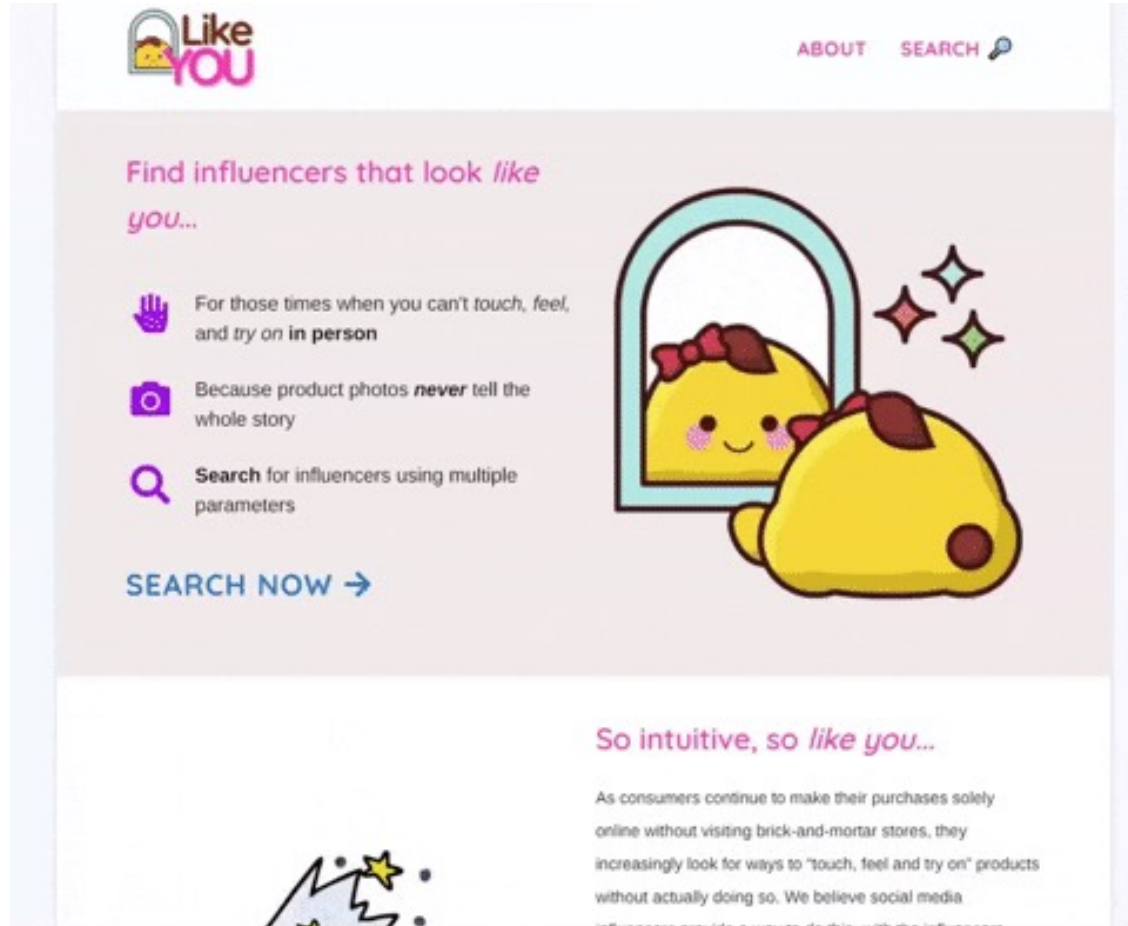


# Design

## Frontend

**Softr** was used because:

- easy backend integration with Airtable via RESTful API calls
- responsive design



# Design

## Backend

Airtable was chosen because:

- easy database management
- multi-user capabilities
- easy integration with other applications via RESTful API calls

