

fashionIQ

proof of
concept

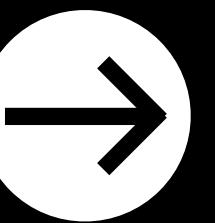
by [team 5] Anson Hsu, Ian Kim, James Baguley, Aidan Nguyen, Joe Zhao



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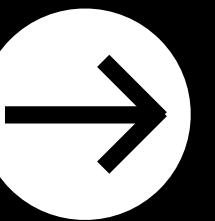
Introduction

Mission statement + use case.



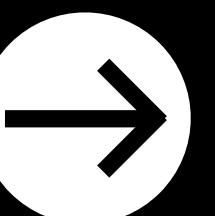
Data

Data sourcing, and structure.



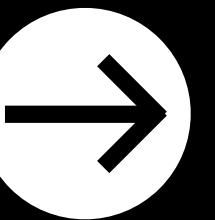
Architecture

Embedding and API functions.



Outro

Moving forward, summary + questions



Introduction



The Team

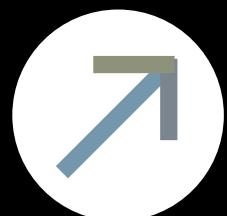
Ian Kim

Anson Hsu

James Baguley

Joe Zhao

Aidan Nguyen



Ian - API Architect

Anson - Database
Architect

James - Product Manager



Joe - Business Analyst

Aidan - Data Engineer



Objective

Create a user-friendly, AI-powered tool that provides customers with clothing recommendations based on their personal style and budget.

Purpose

Assist users in discovering new clothing in line with their style and preferences.

Keypoints

- Tailored recommendations
- Multiple styles/brands
- Generated by photographic input



Your Style.

Step 1: Choose an item.

Tops or bottoms?

Step 2: Define your budget.

Choose from a variety of spending ranges

Step 3: Upload your photo.

A selfie that demonstrates your fashion sense

Step 4: Let us suggest an item for you!

Provided with a link to where it can be purchased

Front End Demo

F A S H I O N



Back End Demo

F A S H I O N



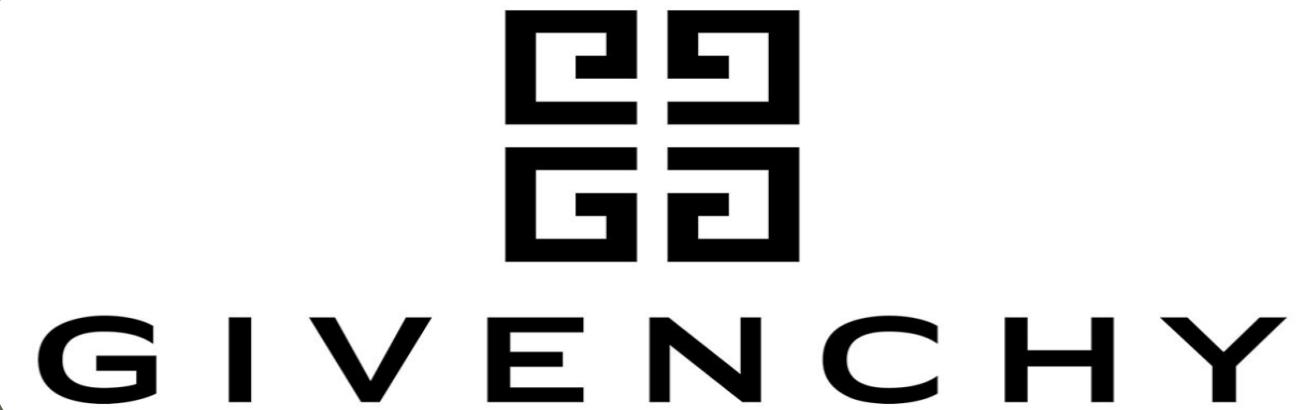


Data

F A S H I O N



Data Collection: Brands



Massimo Dutti



Data Structure

- Different folders for different brands
- Different images folders for Top and Bottom, CSV file for information:
 - Item ID, Price, Link, Type, Brand
- Item ID must be corresponding between images files and CSV file

Pricing

Users have the choice of selecting from three budget tiers:

- \$10-\$50
- \$50 - \$100
- \$200 and above

Current Brands

- Uniqlo
- Massimo Dutti
- Givenchy

Item Types

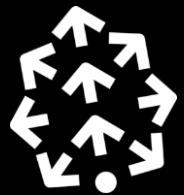
- Top or Bottom
- Light or Dark
- Different Clothing Styles



Architecture

Technologies

Vector Embedding



Pinecone

Vector Database

ResNet50

Embedding Model

LLMs



GPT 3.5



GPT 4 Turbo



DALL-E

Framework



LangChain

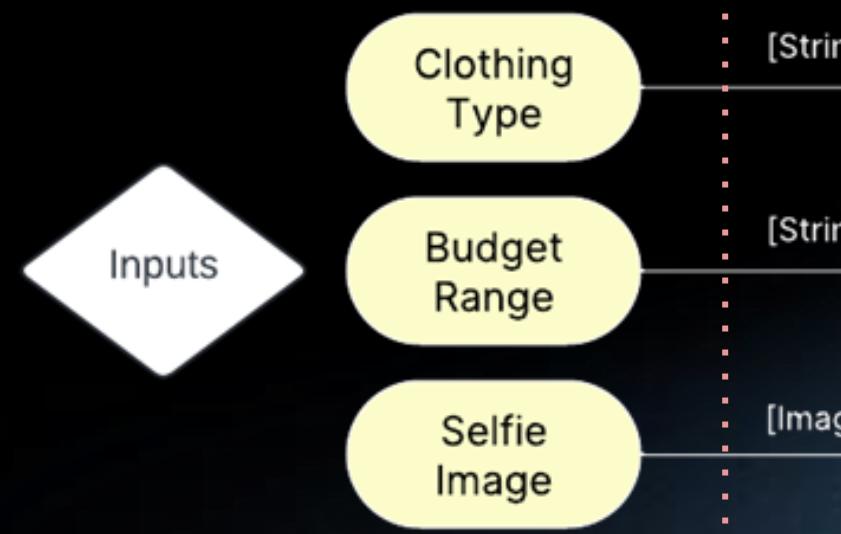
Backend Control Center



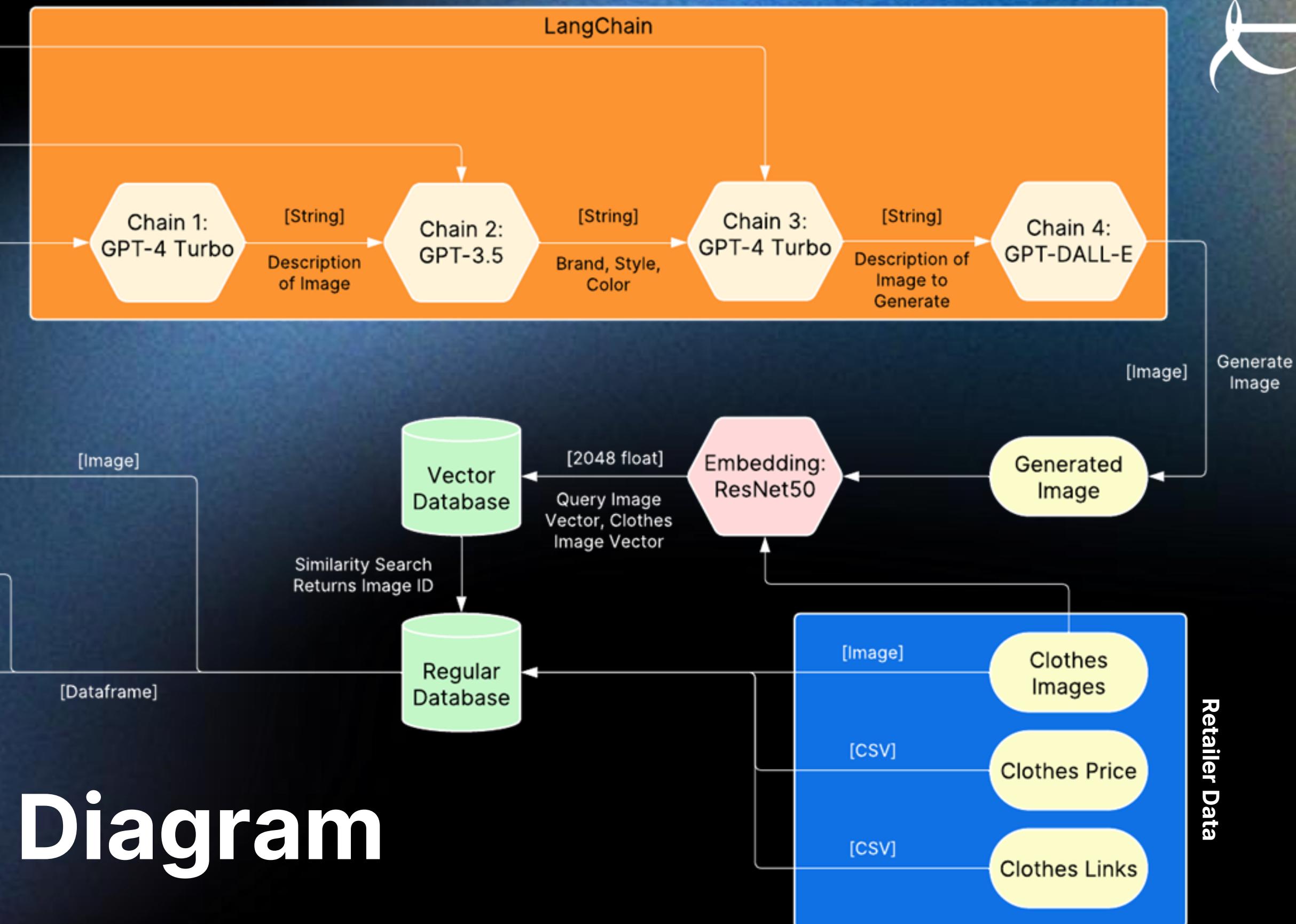
Streamlit

Front End UI

Front End



Back End



Architecture Diagram



Retailer Data

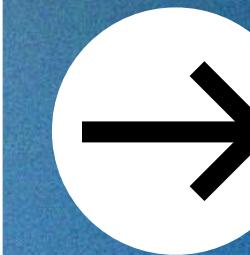


How Our Queries Work in LangChain

Input: Selfie



Powered by: GPT 4 Turbo

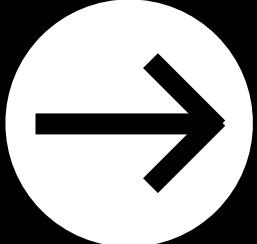


Input: Story

"We see a young woman with a gentle smile, radiating a warm and approachable vibe. Wearing a light-colored sweater and stylish brown trousers, she sports a beautiful straw hat, giving her a chic, yet down-to-earth appearance."

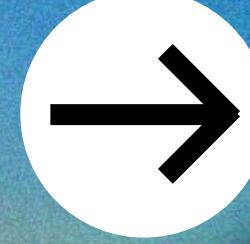
Powered by: GPT 3.5

Input: Style, Color, Clothing Type



"Her style, much like the decor she chooses for her projects, is effortlessly elegant. Emma prefers natural fabrics and soft, neutral tones that reflect her calm demeanor."

Powered by: GPT 4 Turbo



Input: Description of Item to Generate

"Emma should look into purchasing Uniqlo's Women's Linen Blend Wide Pants. These pants are crafted from a natural linen blend..."



Powered by: DALL-E

Outro



Business Prospects

Blend of subscription services and brand partnerships ensures mutual growth and brings value to both users and partners

Subscription

- Revenue Stream
- Access new collections

Brand Partnership

- Showcasing Platform
- Sponsored Content
- Commissions & Advertising



Looking Ahead

- Expandable Framework
- Tunable Prompts



Now:

3

Brands

2

Clothing Categories

1

Gender

Future:
More

Brands*

All

Clothing Categories

All

Genders

*Including exclusive deals with certain brands

Questions?

F A S H I O N

