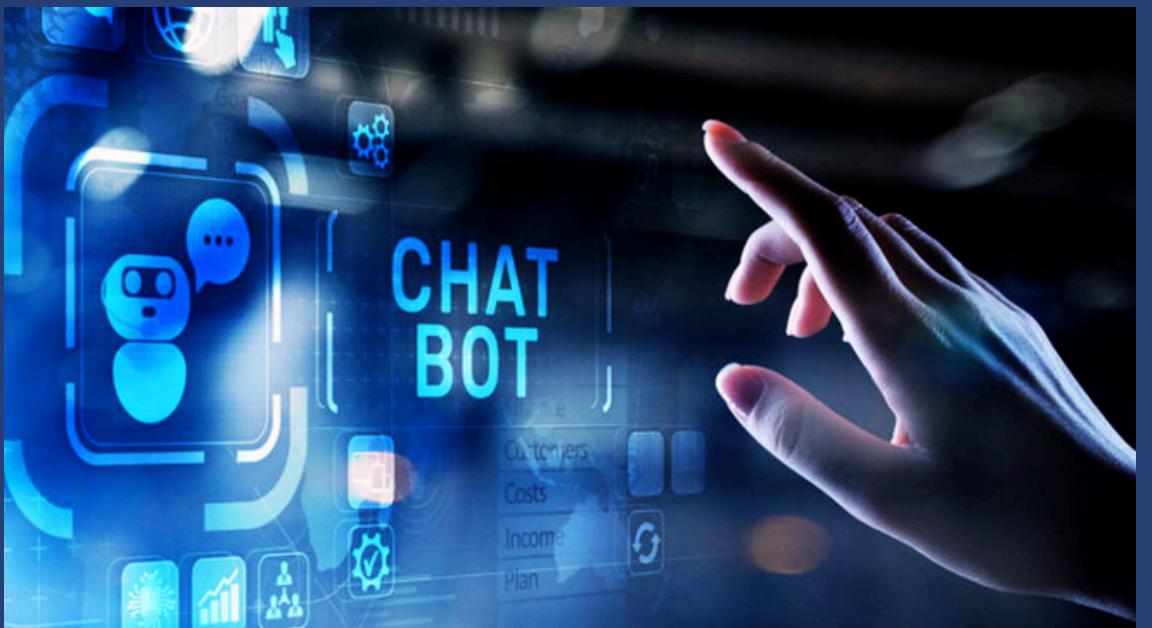




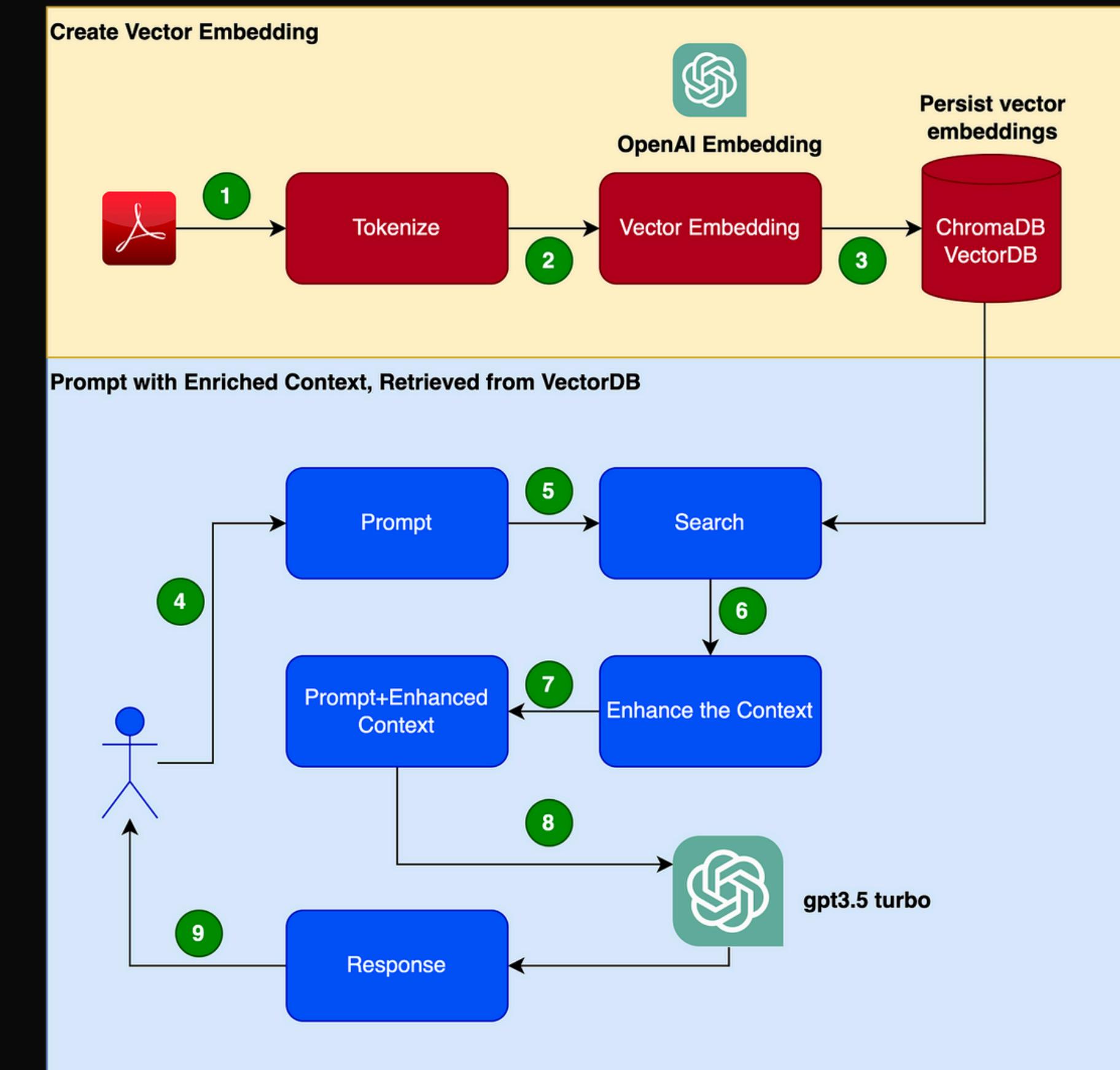
SHOPPING ASSISTANT

Using an RAG Pipeline



- ◆ Group-3: Sai Praneeth, Saurav Sahoo, Shrish Kumar

WHAT IS AN RAG PIPELINE?





ollama run phi3

ollama run llama3:instruct

ollama run gemma:instruct

ollama run qwen

Phase-1

Choosing a suitable LLM for the project

important parameters

1

Accuracy

2

Conciseness

3

Hallucinations

↓
Output should
be brief

↓
Unnecessary
data

>>> Given the four laptops with their description. Now in regarding the given data answer the following question.
... Recommend me laptop which have minimum of 8 GB Ram, 512 GB hard disk and 4 GB graphics card



Therefore, **Laptop 1: LG gram** and **Laptop 3: Acer Aspire 3** meets the given criteria.



Based on these results, I recommend Laptop 1: LG gram 14-inch Lightweight Laptop. It meets or exceeds all the minimum requirements you specified.

Please note that the graphics card information for Laptop 2 and Laptops 3 are not specified in the descriptions, so it's difficult to determine if they meet the minimum requirement of 4 GB.

Considering your requirement for a laptop with at least 8GB RAM, 51Gb SSD (since it's faster than HDD), and a 4GB integrated graphics card, I recommend the following options:

1. Dell Inspiron 15 3000: This budget-friendly laptop comes with Intel Core i5 processor up to 8 GB RAM, an SSD (up to 256GB), and NVIDIA GeForce MX250 graphics card as the integrated solution. Although it doesn't meet your desired storage capacity, its specifications fulfill most of your requirements.
2. Acer Aspire 5: This versatile laptop features Intel Core i3 or i5 processor (up to 8 GB DDR4 RAM), an SSD up to 1TB, and NVIDIA GeForce MX250 graphics card as the integrated solution. The storage capacity exceeds your requirement but it's a worthy choice in terms of performance for its price point.
3. HP Pavilion x360: This 2-in-1 convertible laptop provides Intel Core i5 or i7 processor (up to 8 GB DDR4 RAM), up to an SSD storage capacity of 512GB, and NVIDIA GeForce MX130 graphics card as the integrated solution. It's a great option for users who need more flexibility in terms of form factor.

Please note that these recommendations may not meet your desired specifications perfectly but they come close while being budget-friendly options. Always read reviews and check for compatibility with any peripherals or software you plan to use before making a purchase decision.

Here's why:

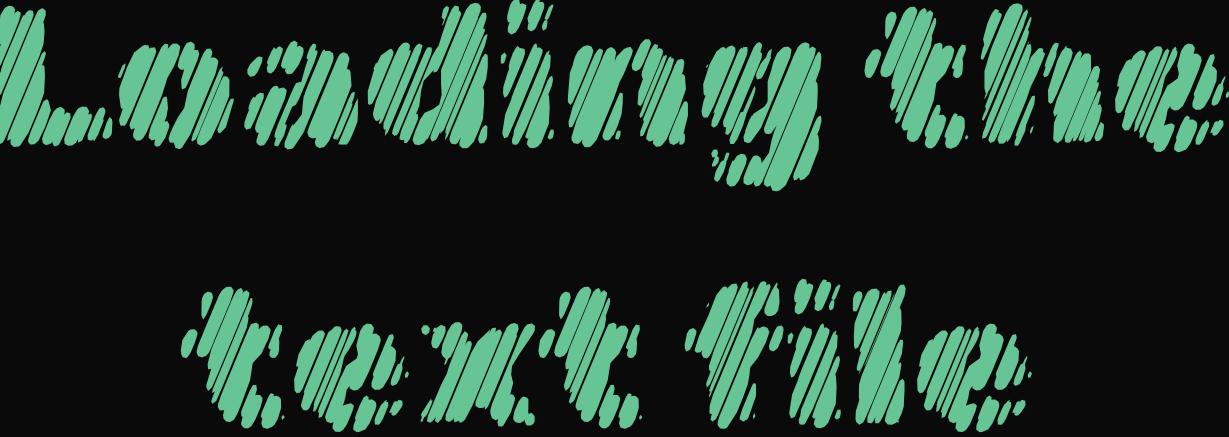
- Memory: Laptop 4 has 4 GB LPDDR5 RAM which meets the requirement.
- Storage: It features a 64 GB EMMC card with storage capabilities. This exceeds your 512 GB requirement but is still within the limit.
- Graphics Card: The laptop comes equipped with Intel UHD Graphics 600, which is adequate for basic graphics tasks and light gaming.

Therefore, Laptop 4 would be an excellent choice considering your requirements.



*Writing a Python Script to
integrate the model*





```
from langchain_community.document_loaders import TextLoader  
import chardet
```

```
# Specify the path to your text file  
path = r"Path of the text file"
```

```
# Detect the encoding of the file  
with open(path, 'rb') as file:  
    result = chardet.detect(file.read())  
    encoding = result['encoding']  
    print(f"Detected encoding: {encoding}")
```

```
# Create a TextLoader instance with the detected encoding  
loader = TextLoader(file_path=path, encoding=encoding)
```

```
# Load the documents  
docs = loader.load()
```

```
# Print the loaded documents  
for doc in docs:  
    print(doc)
```

```
from langchain_text_splitters import RecursiveCharacterTextSplitter

text_splitter = RecursiveCharacterTextSplitter(chunk_size = 1700, chunk_overlap = 200)
chunks = text_splitter.split_documents(docs)

try:
    from langchain.embeddings import SentenceTransformerEmbeddings
    from langchain_community.vectorstores import Chroma
    print("Libraries imported successfully.")
except ImportError as e:
    print(f"Import error: {e}")
    raise e

# Create a Chroma vector store and add documents
try:
    vectorstore = Chroma.from_documents(documents=chunks,
                                         collection_name="rag_chroma", embedding=embeddings)
    print("Vector store created and documents added successfully.")
except Exception as e:
    print(f"Error creating vector store or adding documents: {e}")
    raise e
```

Adding Template



```
from langchain_core.output_parsers import StrOutputParser
from langchain.prompts import ChatPromptTemplate
from langchain_community.chat_models import ChatOllama
from langchain_core.runnables import RunnableLambda, RunnablePassthrough
```

Prompt

```
template = """You are an intelligent assistant helping users with their questions as a shopping assistant.
```

```
Use ONLY the following pieces of context to answer the question. Think step-by-step following the given points below and then answer.
```

```
Do not try to make up an answer:
```

- If the context is empty, response with "I do not know the answer to the question."
- If the answer to the question cannot be determined from the context alone, response with "I cannot determine the answer to the question."
- If the answer to the question can be determined from the context, response ONLY with "name" where <name> is the product matching the criteria

```
Question: {question}
```

```
=====
```

```
Context: {context}
```

```
=====
```

```
"""
```

```
prompt = ChatPromptTemplate.from_template(template)
```

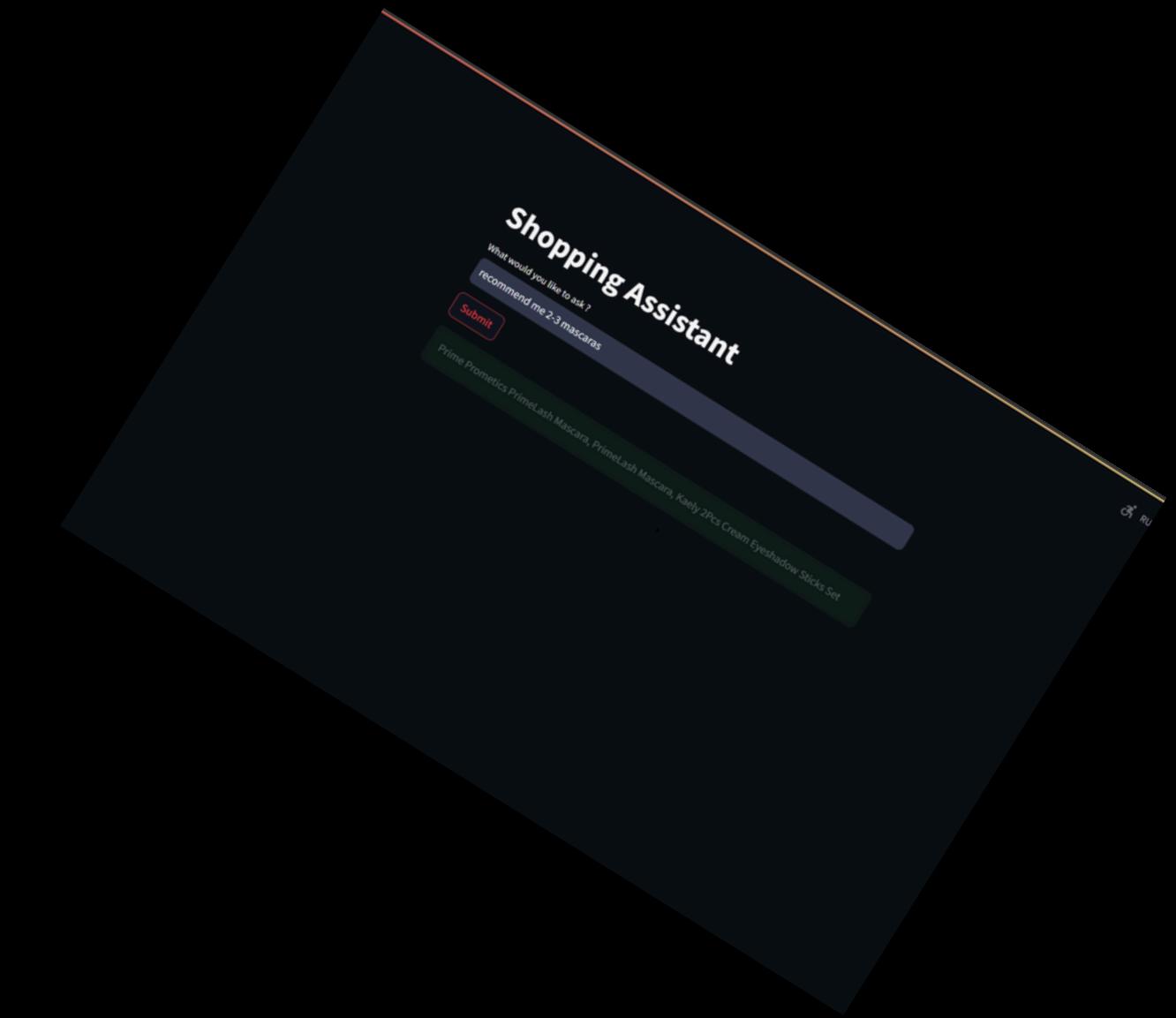
Local LLM

```
ollama_llm = "gemma"
```

```
model_local = ChatOllama(model=ollama_llm)
```

Chain

```
chain = ( {"context": retriever, "question": RunnablePassthrough()} | prompt | model_local | StrOutputParser() )
```



Phase-4

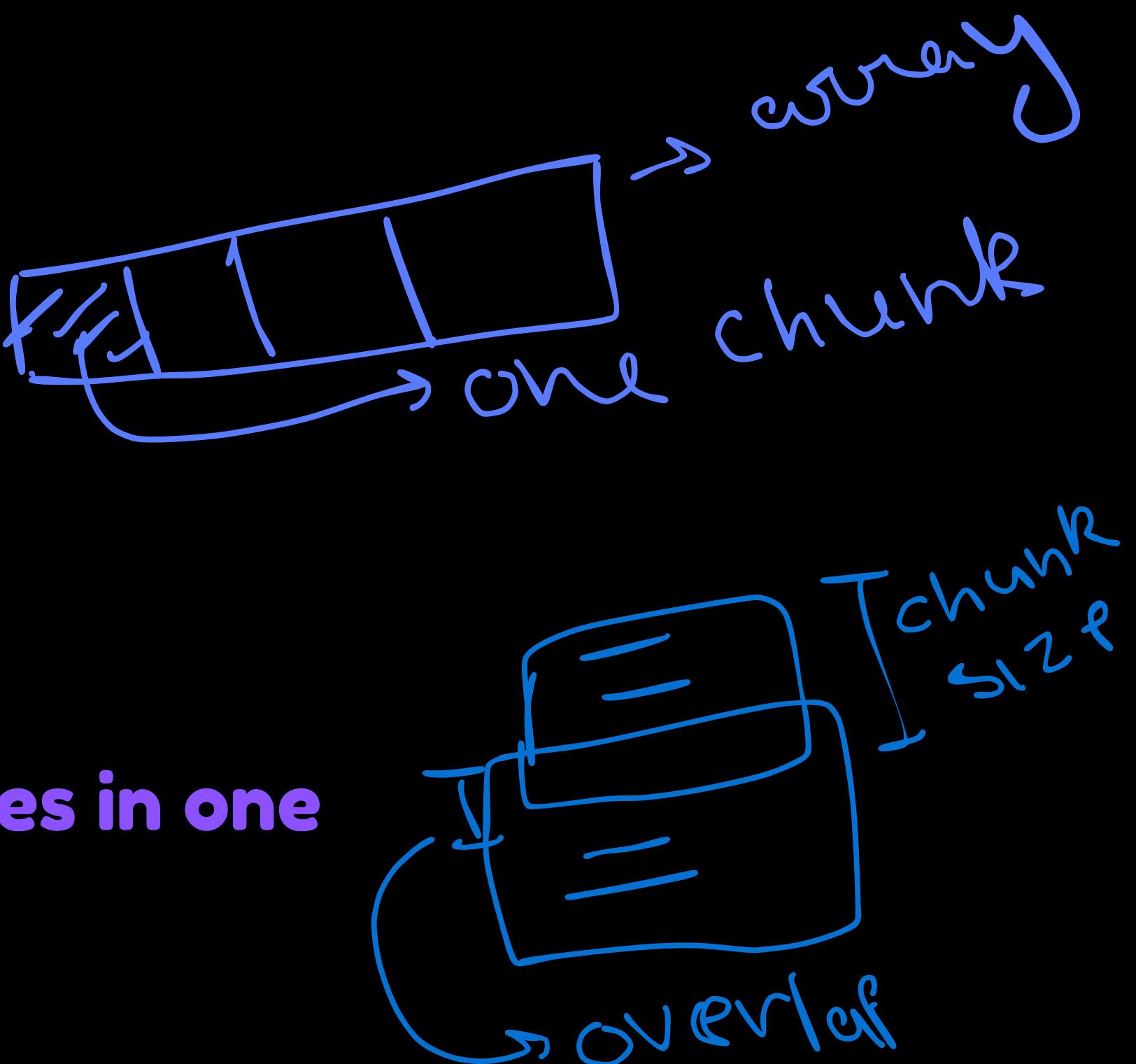
TESTING, OPTIMIZING THE OUTPUTS AND STARTING WITH THE FRONTEND

DURING THE INITIAL TESTINGS
THE OUTPUTS WERE GOOD
ENOUGH TO RECOMMEND 1-2
PRODUCT BUT FAILED TO
RECOMMEND MORE THAN 2
PRODUCTS

WHAT WAS THE ISSUE ?

chunk
size

It's the amount the vector array stores in one index.



BEFORE CHANGING

AFTER CHANGING

Text: Title Product Details About This Item
"Amazon.com : Prime Prometics PrimeLash Mascara for Older Women Volumizing, Incredible Length in 2 Coats Long-Stay, Zero Clumps, Hypoallergenic (Brown) : Beauty & Personal Care" "{'Color': 'Brown', 'Product Benefits': 'Hypoallergenic, Volumizing, Thickening, Lengthening', 'Special Featur...
Node ID: f112c36b-0e8e-4762-a1dc-335be2123e7c
Text: This is a nourishing mascara that facilitates volume and length.', 'EASY TO REMOVA MASCARA, ZERO LASH BREAKAGE As we mature, our eyelashes get thinner and shorter. Prime Prometics PrimeLash Mascara lets you flaunt intense lash length and volume in 2 coats while nourishing & strengthening your natural lashes as you go.']"
Amaz...

Text: Title Product Details About This Item
"Amazon.com : Prime Prometics PrimeLash Mascara for Older Women Volumizing, Incredible Length in 2 Coats Long-Stay, Zero Clumps, Hypoallergenic (Brown) : Beauty & Personal Care" "{'Color': 'Brown', 'Product Benefits': 'Hypoallergenic, Volumizing, Thickening, Lengthening', 'Special Featur...
Node ID: fffffdf890-b546-49bd-9794-76bd7262d485
Text: Prime Prometics PrimeLash Mascara lets you flaunt intense lash length and volume in 2 coats while nourishing & strengthening your natural lashes as you go.']"
Amazon.com : essence | Lash Princess False Lash Effect Mascara | Volumizing & Lengthening | Cruelty Free & Paraben Free : Beauty & Personal Care "{'Color': 'Black', 'Pro...

Difference in Outputs

PrimeLash Mascara
and Maybelline
Instant Age Rewind
Eraser Dark Circles
Treatment Concealer

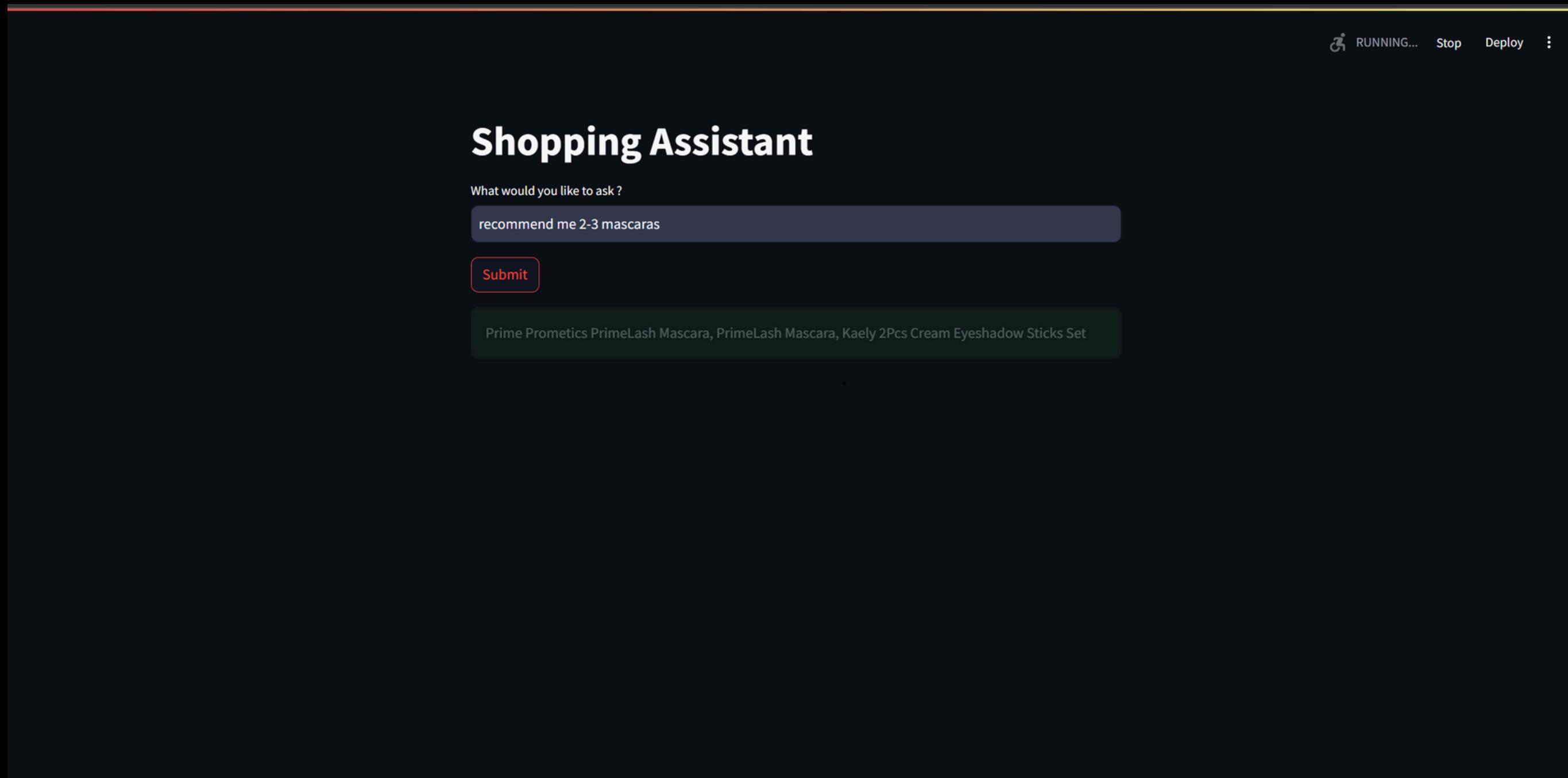
V/S

Recommend me 2-3 mascaras.

Answer:

- Prime Prometics PrimeLash Mascara
- Maybelline Mascara
- Buildable Falsies Mascara

NEXT STEPS: WORKING ON THE FRONTEND FOR THE APP USING STREAMLIT



FINISHED FRONT END

Deploy :

Advanced Shopping Assistant

Upload Excel file

Drag and drop file here
Limit 200MB per file • XLSX

Browse files

Amazon Scraping of Eye_Products(MakeUp) .xlsx 150.2KB X

Vector store created and documents added successfully.

Show Raw Data ▾

Show Document Chunks ▾

Ask a question about the products:

Provide feedback on the answer:

Save Search History

Settings

Chunk Size: 1000

Chunk Overlap: 400

ADDING CATEGORIES AND SUB-CATEGORIES

Code Snippet

```
# Categorizing the query into category and sub-category
def categorizeProduct(question):
    Settings.llm = ollama(model="gemma", request_timeout=1000, temperature=0.5)

    categories_dict = {
        "Makeup": ["Body", "Eyes", "Face", "Lips", "Makeup Palettes", "Makeup Remover", "Makeup Sets"],
        "Skin Care": ["Body", "Eyes", "Face", "Lip Care", "Maternity", "Sets & Kits", "Sunscreens & Tanning Products"],
        "Hair Care": ["Detanglers", "Hair Accessories", "Hair Coloring Products", "Hair Cutting Tools", "Hair Extensions",
                      "Wigs & Accessories", "Hair Fragrances", "Hair Loss Products", "Hair Masks", "Hair Perms, Relaxers & Texturizers",
                      "Hair Treatment Oils", "Scalp Treatments", "Shampoo & Conditioner", "Styling Products"],
        "Fragrance": ["Children's", "Dusting Powders", "Men's", "Sets", "Women's"],
        "Tools & Accessories": ["Bags & Cases", "Bathing Accessories", "Cotton Balls & Swabs", "Makeup Brushes & Tools",
                                  "Mirrors", "Refillable Containers", "Shave & Hair Removal"],
        "Shave & hair removal": ["Men's", "Women's"],
        "Personal Care": ["Bath & Bathing Accessories", "Deodorants & Antiperspirants", "Lip Care", "Oral Care",
                          "Piercing & Tattoo Supplies", "Scrubs & Body Treatments", "Shave & Hair Removal"],
        "Salon & Spa Equipment": ["Hair Drying Hoods", "Galvanic Facial Machine", "Handheld Mirrors", "High-Frequency Facial Machines",
                                   "Manicure Tables", "Professional Massage Equipment", "Salon & Spa Stools", "Spa Beds & Tables", "Salon & Spa Chairs",
                                   "Spa Storage Systems", "Spa Hot Towel Warmers"],
        "Foot, Hand & Nail Care": []
    }
```

Select a category

Makeup

Body

Makeup

Skin Care

Hair Care

Fragrance

Tools & Accessories

Shave & hair removal

Personal Care

Salon & Spa Equipment

Select a category

Makeup

Body

Body

Eyes

Face

Lips

Makeup Palettes

Makeup Remover

Makeup Sets

PROVIDING
LINKS

```
# Output
if submit:
    category_subcategory = categorizeProduct(question)
    st.write(category_subcategory)

names_dict = productSearch(vectorstore, question)

if names_dict:
    for key, value in names_dict.items():
        parts = value.split("\n")
        link, description = parts[0], parts[1] if len(parts) > 1 else ""

        st.success(key)
        st.write("Buy: ", link)
        st.write(":green[Description]: ", description)
else:
    st.error("No results found")
```

Enter your query to search product !

Enter your query

Find a waterproof mascara

Submit

Category: Makeup, Sub-Category: Eyes

Product Title : essence | Lash Princess False Lash Waterproof Mascara For lengthening,volumizing,moisturizing,separating,long lasting | Vegan & Cruelty Free | Free From Parabens & Microplastic Particles (Pack of 1) : Beauty & Personal Care

Buy: https://www.amazon.com/sspa/click?ie=UTF8&spc=MTo4MzgyMjk3NzY3MDkwMTQ5OjE3MTY5ODcyODA6c3BfYXRmX25leHQ6MjAwMDQwMjYxMDYzNzk4OjowQjo&url=%2FEssence-Princess-Effect-Waterproof-Mascara%2Fdp%2FB07TXJHYKB%2Fref%3Dsr_1_12388_sspa%3Fc%3Dts%26dib%3DeyJ2ljoMSJ9.wVGgeeUGXxcqIfX9m1w2Oq7YuJJhqHdmvPzrL1vOY9F6rKQTm3rrp1PvcIg4EXP7J5nPO1x-9Wx_4DRrhnDAmqnKIPj0jrPjp92BtmvWO7FJKX-xDUUXMkdj-J6z5UFiySDXC9gudoMLWH68Ykrzx7XsKp0U6FdE_VFjlLHXiWjRzHvZ_kuKG7x8FtJh41Tfl43ZBw8vlev5K-L0E6smWWfRcBHsCXXmHZFSZBOUU9afQAAKk2Zwh8CNPuAmmI04Hq3JM5GemGtw9AhquiWg7_seV6xULiQn0rn9inGn_qw-J1H3KC2tIORD9n8UISUYAiwbZ50AiK48RR75n4kFAg%26dib_tag%3Dse%26keywords%3DEye%2BMakeup%26qid%3D1716987280%26s%3Dbeauty%26sr%3D1-12388-spons%26ts_id%3D11058331%26sp_csd%3Dd2lkZ2V0TmFtZT1zcF9hdGZfbmV4dA%26psc%3D1

Description: WATERPROOF PRINCESS: Get the voluminous false lash effects of the original in a waterproof formula with the Lash Princess False Lash Waterproof Mascara from essence! | DRAMATIC VOLUME: The special conic shaped fiber brush provides lashes with length and dramatic volume as

ADDING PAGES

TO ENHANCE THE USER EXPERIENCE ON OUR WEBSITE, WE HAVE INTRODUCED TWO DEDICATED PAGES: ONE FOR ADDING DATA FILES AND ANOTHER FOR SUBMITTING QUERIES.

THE "ADD DATA FILES" PAGE OFFERS A STRAIGHTFORWARD INTERFACE WHERE USERS CAN EASILY UPLOAD AND MANAGE THEIR DATA FILES, ENSURING A SEAMLESS PROCESS FOR INTEGRATING THEIR INFORMATION INTO OUR SYSTEM. ON THE OTHER HAND

THE "SUBMIT QUERIES" PAGE IS DESIGNED TO HELP USERS SEEK ASSISTANCE OR ASK QUESTIONS EFFICIENTLY. THIS PAGE FEATURES A USER-FRIENDLY FORM THAT GUIDES USERS THROUGH SUBMITTING THEIR INQUIRIES, ENSURING THAT THEY RECEIVE PROMPT AND ACCURATE RESPONSES.

BY SEPARATING THESE FUNCTIONALITIES INTO DISTINCT PAGES, WE AIM TO SIMPLIFY NAVIGATION AND IMPROVE OVERALL USABILITY, MAKING IT EASIER FOR USERS TO ACCOMPLISH THEIR TASKS WITH EASE AND CONFIDENCE.

PD RAG

Search Product

Add Product

Upload file here to add in catalogue

Upload here!

Select a category

Select a subcategory



Drag and drop file here

Limit 200MB per file • XLSX

Browse files

Makeup

Body



EYE_FINALIZED_DATA - out... 9.6MB X

Submit

There are no **duplicates** rowsThe number of rows that have
null values are:

	0
product_details	860
about_this_item	3,012
image_urls	3

the uploaded file has 23836 rows

After deleting the duplicate and
null rows, file have 20287 rowsThe number of rows that are
deleted: 3549

File data after deleting the duplicate and null rows.

	_id	url
0	666dfa624a0a3dcb2cf72778	https://www.amazon.com/sspa/click?ie=UTF8&spc=MTo0NTU0OTQ4MzU2MTY3

PD RAG

 Search Product Add Product

Enter your query to search product !

Enter your query

Recommend me waterproof mascara

Submit

Category: Makeup, Sub-Category: Eyes

Product Title : Waterproof Mascara Black - Natural Volumizing and Lengthening Eye Makeup Effect, Instant Lash Lift, 4D Fiber Lash Mascara Curling, Defining, Waterproof Lasting Mascara, Gift For Women : Beauty & Personal Care

Buy: [https://www.amazon.com/Waterproof-Mascara-Black-Volumizing-
Lengthening/dp/B0BVYCQSTR/ref=sr_1_10490?c=ts&dib=eyJ2ljojMSJ9.RXWYV5neArGHNVJ-
szm2I6xXYKR2PmexB9wYGVAKV1WNUYjxvQbr3xi69GptposryEY70B47BZ_lEAGcNlh5DKdlwciWMHO3xkisH
6yHMXFqNI1oXFVaHlmxNiUuSPGDuU0i3gHTvuPwnJYwEBLoq1vFa6XDh8CGYdeh_HNC6yCt3u1mttHhhKg
wnqs-
4YRG82SLiTnxAKQcTYrW_4LgZHB5w8wfjaBvGj2q3dtksdJyXz4jPe2A_6uk4amZj1NARWe3m2ERO1k0Lm-
lbNMLq4RGCig9ZAQw4WpfWL_n4.D6ZIT7UXU4ES9nK3YjGUL86NO_L1bRL4zl29Qmvbu2U&dib_tag=se&ke
ywords=Eye+Makeup&qid=1716987172&s=beauty&sr=1-10490&ts_id=11058331](https://www.amazon.com/Waterproof-Mascara-Black-Volumizing-Lengthening/dp/B0BVYCQSTR/ref=sr_1_10490?c=ts&dib=eyJ2ljojMSJ9.RXWYV5neArGHNVJ-szm2I6xXYKR2PmexB9wYGVAKV1WNUYjxvQbr3xi69GptposryEY70B47BZ_lEAGcNlh5DKdlwciWMHO3xkisH6yHMXFqNI1oXFVaHlmxNiUuSPGDuU0i3gHTvuPwnJYwEBLoq1vFa6XDh8CGYdeh_HNC6yCt3u1mttHhhKgwnqs-4YRG82SLiTnxAKQcTYrW_4LgZHB5w8wfjaBvGj2q3dtksdJyXz4jPe2A_6uk4amZj1NARWe3m2ERO1k0Lm-lbNMLq4RGCig9ZAQw4WpfWL_n4.D6ZIT7UXU4ES9nK3YjGUL86NO_L1bRL4zl29Qmvbu2U&dib_tag=se&keywords=Eye+Makeup&qid=1716987172&s=beauty&sr=1-10490&ts_id=11058331)

Description: Volumizing And Lengthening Mascara: Full lash fringe that's feathery soft, with no flaking, no smudging, and no clumping; Just voluptuous volume and intense length. 20x more volume and up to 2x

SWITCHING
TO NETIS

Mr. Wm. C. Clegg, Mayor of Springfield, Mass.

Wm. C. Clegg

**DIVIDED
TASKS**

**TO SPEED UP THE PROCESS WE DIVIDED TASKS
AMONGST OURSELVES**

CREATING PAGES

category: Makeup subcategory: Eyes

```
[  
    0 : "Vibely Mascara"  
    1 : " VIBELY Mascara "  
    2 : " 2 IN 1 VOLUMIZING AND LENGTHENING MASCARA  
    "  
]
```

→ Debug

Product Title : 2 in 1 Mascara 5x Longer Waterproof Lash Cosmetics Natural Lengthening and Thickening Effect No Clumping Superstrong Magic 4d Silk Fiber for Vibely Mascara Makeup : Beauty & Personal Care

Buy: [https://www.amazon.com/Waterproof-Cosmetics-Lengthening-Thickening-Superstrong/dp/B09SH2FL78/ref=sr_1_1598?c=qFe2rRiEoVJGwH_IrlY0IRmDfFAflG5yZViRDtiQ5-Hpr-2QOmImUIXN4x0pAndG-2ID-VJ-emOsyvhkw0iyiOz0U5-NL4QF_gi8agH3ZQHzbf0Xdxxxv4AiMlyqgmC8cUIPJvc6d-LTKTn2MpUcFvg4bNuK5D9bZ6k3SuedNACOBkzoF4tRF-45qxKsaRMjkQsh25kHKksND6VAn00DeR9GQ_xl_Fb9olakLcmv6lLGM1Nv-sbQHmnAf5i4QKCly1MNzCl6o.nCZN0PLqVA15tqXM1IORBM2oc4raRhYHGB2xSSejalc&dib_tag=se&keyw ords=Eye+Makeup&qid=1716986508&s=beauty&sr=1-1598&ts_id=11058331](https://www.amazon.com/Waterproof-Cosmetics-Lengthening-Thickening-Superstrong/dp/B09SH2FL78/ref=sr_1_1598?c=qFe2rRiEoVJGwH_IrlY0IRmDfFAflG5yZViRDtiQ5-Hpr-2QOmImUIXN4x0pAndG-2ID-VJ-emOsyvhkw0iyiOz0U5-NL4QF_gi8agH3ZQHzbf0Xdxxxv4AiMlyqgmC8cUIPJvc6d-LTKTn2MpUcFvg4bNuK5D9bZ6k3SuedNACOBkzoF4tRF-45qxKsaRMjkQsh25kHKksND6VAn00DeR9GQ_xl_Fb9olakLcmv6lLGM1Nv-sbQHmnAf5i4QKCly1MNzCl6o.nCZN0PLqVA15tqXM1IORBM2oc4raRhYHGB2xSSejalc&dib_tag=se&keywords=Eye+Makeup&qid=1716986508&s=beauty&sr=1-1598&ts_id=11058331)

Description: Usage Tips: Our mascara with excellent waterproof properties, to achieve the best results, ensure that your eyelashes are dry before applying mascara to enhance its waterproof effect. Additionally, allow sufficient time for it to dry. To avoid excess application, gently brush an appropriate amount of

SHELVING INTEGRATION

we basically prompted the UTM to return
only the names of the product(s) and then
we use Shelve which is a file-based
search library to search for the item and
print its details

```
logger.debug(f"Response: {response}")
shelv = shelve.open("/home/bitsintern/Raghav/ShelveData/Makeup_Eyes")
answer = str(response)
names = answer.split(",")
template = f"""You'll be given a list a categories with their respective subcategories in the given context
=====
Context: {context}
=====

Based on your prior knowledge, you'll have to tell under which category and subcategory does the product given in the below query fall under
Respond only with "category", "subcategory" where <category> is the category of product in the query and <subcategory> is the subcategory of pro
=====

Question: {query}
=====

"""
st.success(Settings.llm.complete(template))
st.write(names)

# Storing the retrieved data
result = {}
shelv_dict = dict(shelv)
for name in names:
    for key, value in shelv_dict.items():
        parts = value.split("\n")
        link, description = parts[0], parts[1] if len(parts) > 1 else ""
        if name.lower() in key.lower() or name.lower() in description.lower():
            if key not in result.keys():
                result[key] = shelv_dict[key]

if result:
    for key, value in result.items():
        parts = value.split("\n")
        link, description = parts[0], parts[1] if len(parts) > 1 else ""

        st.success(key)
        st.write("Buy: ", link)
        st.write("Description: ", description)
        """

```

DEBUGGING TEST CASES

SINCE WE WERE WORKING ON A LARGE DATASET IT'S NOT EASY
TO DEBUG THE LOGICAL ERRORS AND WRONG OUTPUTS SO WE
ADDED LOGGER STATEMENTS IN THE CODE TO SEE EACH STEPS OF
THE CODE

Sample example of how retriever works

```
d brush focuses on heav...
> [Node 3376183a-e71e-4992-91c2-89e0399038c2] [Similarity score: 0.493981] 2 IN 1 VOLUMIZING AND LENGTHENING MASCARA: The 2 in 1 mascara has two brush heads Achieve differe...
> [Node 9889bf77-0979-4c30-be96-70e34ecc1805] [Similarity score: 0.490949] Makeup Kit, 2 In 1 Eyebrow Cream Styling Wax & Black Liquid Eyeliner & Blac...
Mascara & Lash Serum...
> [Node 0b9f6420-a627-4f72-8d26-f4fc2cf4c613] [Similarity score: 0.489703] [Eyelash Cosmetics vibely Mascara]The Vibely Mascara BlackExtend your natur...
l lashes to amazing l...
> [Node 154331a1-c3ad-4b1e-a4dc-a63f35256c3e] [Similarity score: 0.489703] [Eyelash Cosmetics vibely Mascara]The Vibely Mascara BlackExtend your natur...
l lashes to amazing l...
> [Node 2f212b30-ac2c-45b7-85e0-f2153c6593c2] [Similarity score: 0.487977] 【SHOW OFF YOUR BEAUTY WITH CONTINUOUS WEAR】 - With VIBELY Mascara, beautif...
l ladies, you no longer...
> [Node 54d7885d-7b52-4455-9170-ef824008-851] [Similarity score: 0.484622] 【2 IN 1 EYEBROW PENCIL】With 2 colors, the first pencil is a thin...
```

↳ Inference there are a lot
of duplicate products

SINCE THERE ARE VARIOUS COMPONENTS OF THE SCRIPT NOW TO VERIFY THE OUTPUT OF THE SIMILARITY SEARCH, LLM, SHELF WE MADE A DEBUG.PY FILE

TESTED 15 PROMPTS OF DIFFERENT INTENTS THAT USERS COULD ASK THE CHATBOT AND TESTED THE ACCURACY AND FLOW OF THE OUTPUT AND RECORDED EVERYTHING IN A EXCEL SHEET

prompts	similarity search	LLM	shelve output
Is NYX Professional Makeup Epic Ink eyeliner waterproof?	expected	expected	no
Clinique High Impact Mascara, Almay Mascara, Jolilab Eyeshadow Stick Set what do these mascaras have in common	expected	Clinique High Impact Mascara, Almay Mascara, Jolilab Eyeshadow Stick Set - they all provide instant color payoff.	yes
Clinique High Impact Mascara, Almay Mascara, Jolilab Eyeshadow Stick Set what colours are they available in?	expected	The provided text does not contain information regarding the colours of Clinique High Impact Mascara, Almay Mascara, or Jolilab Eyeshadow Stick Set. Therefore, I am unable to answer the question.	yes
Clinique High Impact Mascara, Almay Mascara, Jolilab Eyeshadow Stick Set are these available in black	expected	Clinique High Impact Mascara, Almay Mascara, Jolilab Eyeshadow Stick Set	
unexpected. all have black in the description and in the shelve output		unexpected. all have black in the description and in the shelve output	yes
Is Maybelline Extensions mascara waterproof?	expected	expected	its giving the desc and links of all different eyeshadows and eyeliners except the one asked about
Recommennd me a makeup which has the features listed below: Waterproof Matte Liquid Eyeliner, precise tip is flexible and Easy to Use, full range of eye makeup products ranging from eyeshadow palettes to false eyelashes, eyeliners, concealers, setting sprays, eyebrow makeup, eyeshadow primer and more, Cruelty Free Cosmetics, certified and acknowledged by PFTAA	expected	expected	yes

for better accuracy of product matching we implemented fuzzywuzzy library to the shelf

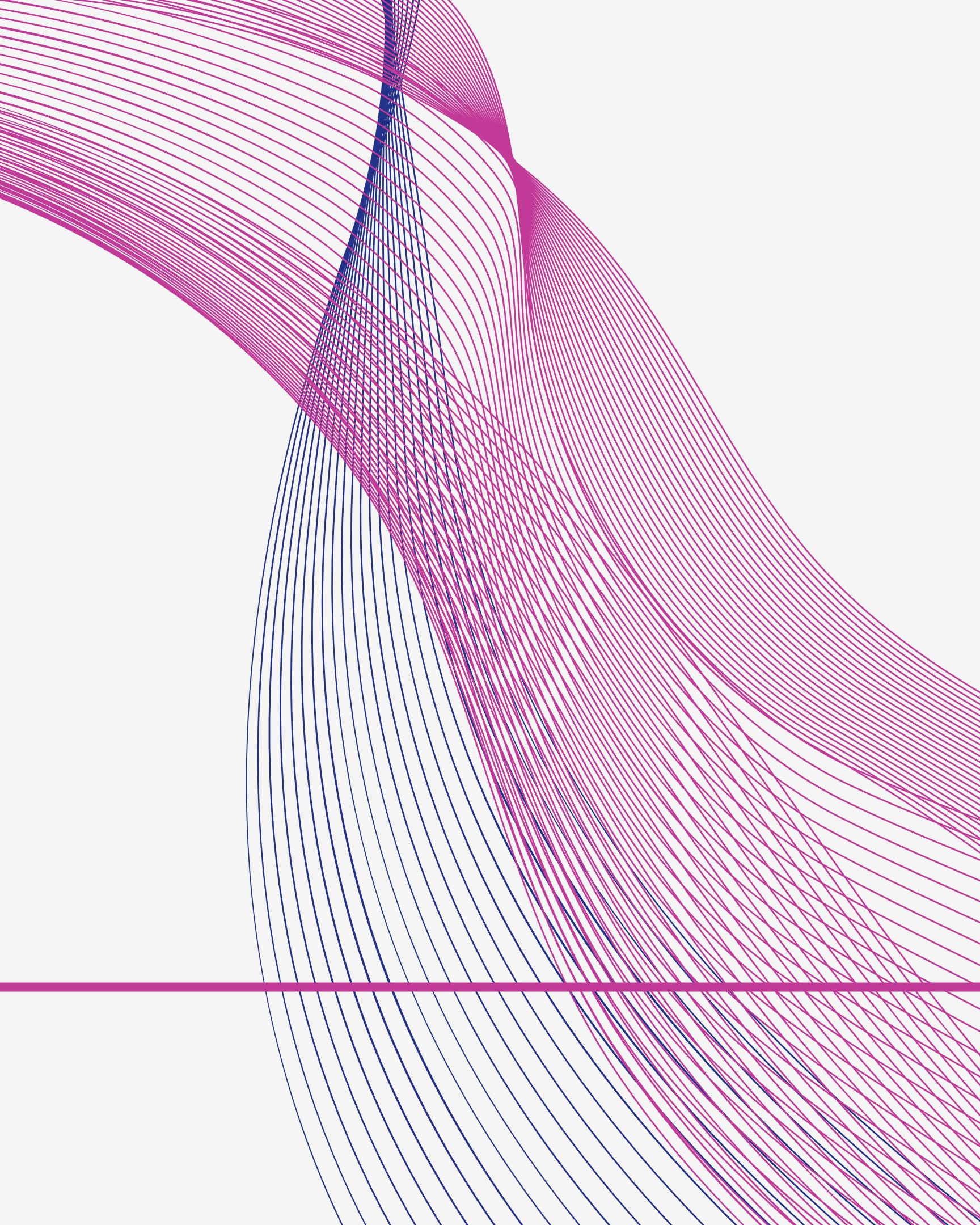
```
st.write(names)

# Shelve database for retrieval
shelv = shelve.open("/home/bitsintern/Raghav/ShelveData/Makeup_Eyes")
names = names.split(",")

# Storing the retrieved data
result = {}
shelv_dict = dict(shelv)
for name in names:
    for key in shelv_dict:
        if fuzz.ratio(name.lower(), key.lower()) > 70: # Using a threshold of 70 for better accuracy
            if key not in result.keys():
                result[key] = shelv_dict[key]

# Showing the description and URL along with the product title
for key, value in result.items():
    parts = value.split("\n")
    link, description = parts[0], parts[1] if len(parts) > 1 else ""

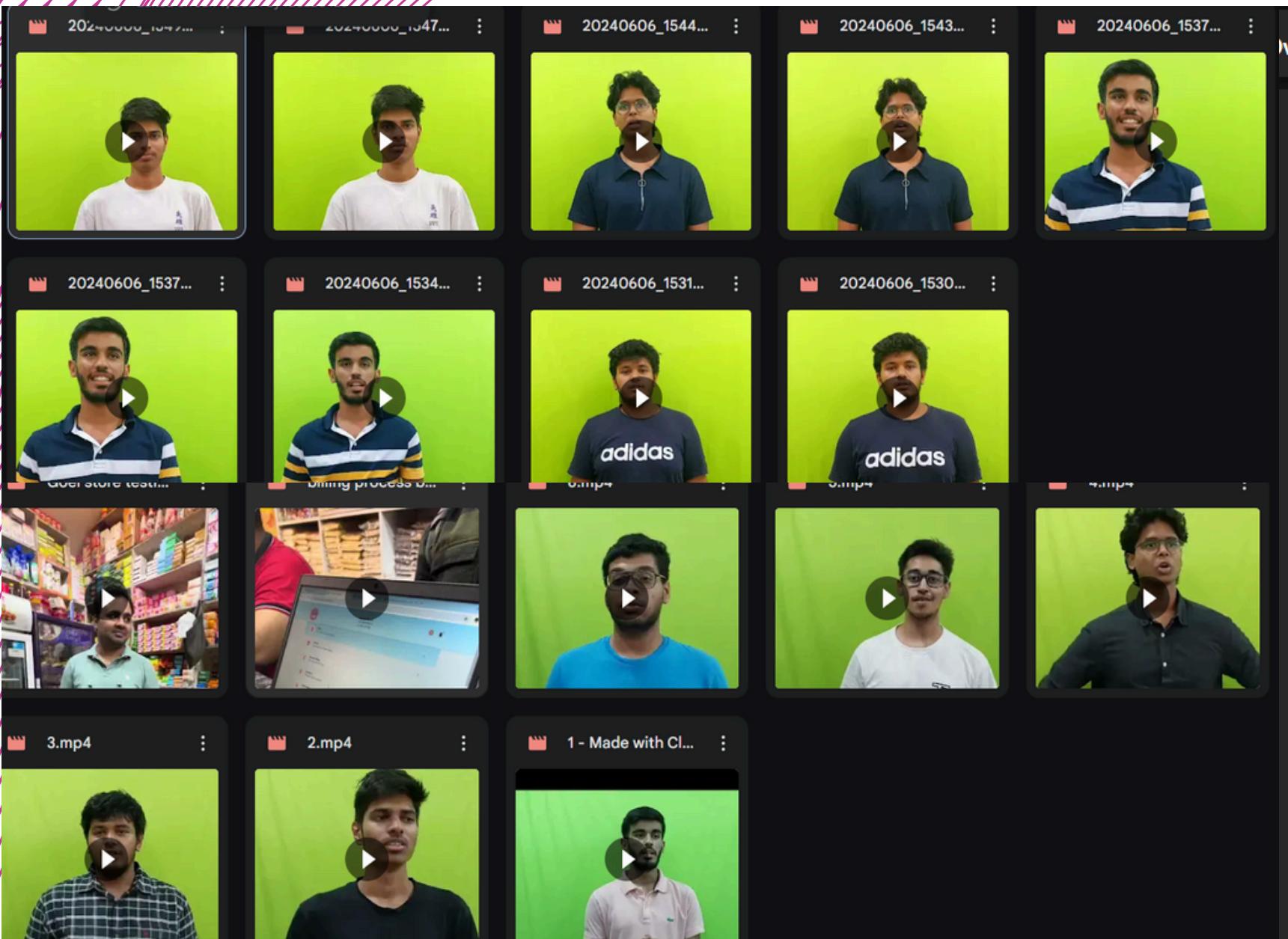
    st.success(key)
    st.write("Buy: ", link)
    st.write(":green[Description]: ", description)
```



OOGASHOP

Apart from the IT-domain work, we were exposed to the digital marketing industry through Paralleldots' highly successful software OOGASHOP. which is a online billing software with many features like ONDC, inventory tracking and online bill generation.

Making awareness videos for marketing



"Overcoming Challenges: How OOGASHOP Helped Businesses" video script

Should you require any further assistance, please feel free to reach out in the WhatsApp group.

"Namaskar doston! Aapka swagat hai hamare naye episode mein, jahan hum baat karenge OOGASHOP aur uski nayi biller service ke baare mein, jo kirana dukan walon ke liye ek game-changer sabit ho rahi hai."

"Aap sabhi ko pata hoga ki kirana dukan chalana asaan kaam nahi hai. Bohot saari challenges face karni padti hain, jaise billing, stock management, sales aur purchase reports ko maintain karna. Lekin, ab aapko in sabhi problems ka solution mil gaya hai, OOGASHOP ke saath."

"OOGASHOP sirf ek billing software hi nahi hai, balki yeh ek poora digital solution hai jo aapki dukan ke saare operations ko simplify karta hai. Aur ab, humne ek naya service introduce kari hai – trained biller service. Is service ke zariye, aapko ek trained biller milega jo aapki dukan ke sabhi kaam ko efficiently handle karega."

"OOGASHOP ki madad se, aap apni dukan ke sabhi business insights easily access kar sakte hain, jaise ki kitni sales hui, kitna purchase hua, aur kaunsa stock khatam ho raha hai. Ab aapke paas yeh saari important information hamesha available hogi, jisse aap better business decisions le sakte hain."

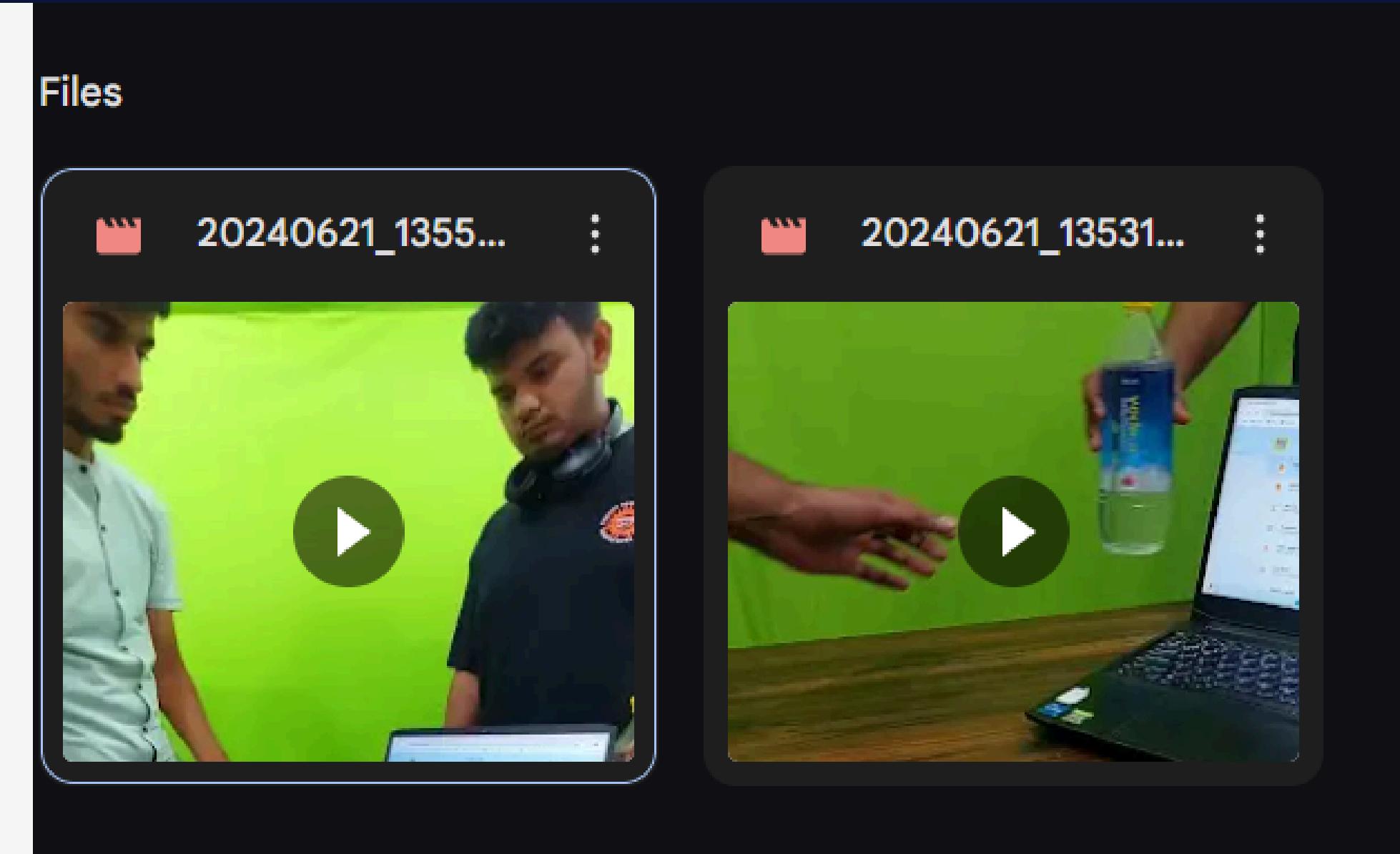
"Hamari biller service ke saath, ONDC ke orders aur sabhi operations ka bhi tension aapko nahi lena padega. Hamara biller sab kuch smoothly handle karega, aur aap apne business ko bina kisi tension ke online bhi aage badha sakte hain."

"Toh doston, agar aap bhi apne kirana business ko naye heights par le jaana chahte hain, toh OOGASHOP ke saath judiye. Yeh sirf ek software nahi, balki aapka business partner hai."

"Aur adhik jaankari ke liye, hamare YouTube channel ko follow karein. Ya phir niche diye gaye button par click karein. Dhanyavaad!"

tutorials for the software

we were also tasked with making tutorials for generating bills with a barcode reader, using the various features in OOGASHOP



billing made easy.

OOGASHOP's free GST billing software helps Kirana stores thrive.



What we do:



Barcode billing speeds up billing with product scanning, ideal for big inventories.



Bill on Hold lets vendors pause and resume transactions at will, boosting efficiency and customer service.



Simplify customer payment tracking with secure debit/credit recording.

CONTACT US @OOGASHOP

Billing Made Easy

OOGA SHOP

One-Stop Solution To Integrate ONDC

Let's Discuss Technology!

@oogashop

● ● ● ●

OOGASHOP

ONLINE BILLING AND RETAIL Software

Our Services

- ✓ GST billing
- ✓ ONDC Network
- ✓ Inventory Management

Learn More

Call to find out more
738-897-4291

Social Media Marketing

assigned with the task to design
instagram posts on canva

SPONSORING

ONDC for all.

@OOGASHOP



*helped write a blog on
oogashop to spread
awareness about the
software and its features*

How OOGASHOP can help Kirana stores compete in the digital age

In today's world, more and more people are choosing to buy things from online stores because it's easy and they have many options. This change makes it hard for small, family-owned Kirana stores, which are essential to many areas.

But Kirana stores don't need to worry about losing to online shops. OOGASHOP, which doesn't cost anything, offers a way for these small stores to keep up with the online trend. It gives them everything they need to make their business digital and serve their customers better.

Here are some of the ways OOGASHOP can help Kirana stores:

- **Free GST billing, GRN, sales purchase report generation, and business intelligence:** OOGASHOP can help Kirana stores save time and money by automating these tasks. This will free store owners to focus on other essential aspects of their business, such as customer service and marketing.
- **Data-driven decision making:** With OOGASHOP, Kirana stores can track their sales data and gain insights into customer behavior. This information can be used to make better decisions about inventory management, pricing, and promotions.
- **Improved customer service:** OOGASHOP can help Kirana stores provide a more personalized shopping experience for their customers. For example, stores can use OOGASHOP to track customer purchase history and preferences. This information can then be used to offer targeted promotions and recommendations.
- **Online presence:** OOGASHOP can help Kirana stores create a basic online presence. This will allow customers to learn more about the store and its products, and it may even encourage them to shop online.

By taking advantage of the tools and resources offered by OOGASHOP, Kirana stores can compete more effectively in the digital age.

In addition to the benefits mentioned above, OOGASHOP is also free to use. This makes it an attractive option for Kirana stores looking for ways to improve their business without breaking the bank.

If you are a Kirana store owner, [Page 1](#) encourage you to sign up  for a [Page 2](#) free trial of OOGASHOP today and see how it can help your business thrive in the digital age.



A dark blue background featuring a complex, abstract geometric pattern. It consists of numerous thin, light red lines forming a grid-like structure that curves and undulates across the frame. The pattern is denser on the left side and becomes more sparse towards the right.

Thank you!

