SMART FASHION RECOMMENDER APPLICATION

Project Report

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1.INTRODUCTION

1.1 Project Overview

Recommender systems help users navigate large collections of products to find items relevant to their interests leveraging large amounts of product information and user signals like product views, followed or ignored items, purchases or web-page visits to determine how, when and what to recommend to customers by UI. Recommender systems have grown to be an essential part of all large Internet retailers, driving up to 35% of Amazon sales or over 80% of the content watched on Netflix. In this work we are interested in recommender systems that operate in one particular vertical market: garments and fashion products. This setting introduces a particular set of challenges and sub-problems, that are relevant for developing effective recommender systems. Due to market dynamics and customer preferences, there is a large vocabulary of distinct fashion products, as well as high turnover. Furthermore, precise and detailed product information is often not available, making it difficult to establish similarity between products. To deal with the aforementioned problems, and given the visual and aesthetic nature of fashion products, there is a growing body of computer vision research addressing tasks like localizing fashion items determining their category and attributes or establishing the degree of similarity to other products to name only a few. Although works in the computer vision literature often don't consider personalization (or recommendation), their predictions and embeddings can be leveraged by recommender systems and chatbot, thus mitigating sparsity and cold start problems. Another relevant fashion problem that has attracted the attention of computer vision research is that of combining garments into complete outfits. Several works have studied how to learn the compatibility between fashion items using both professional photos of models wearing designer-created outfits, and social media pictures from 'influencers' and normal people. In addition to allowing recommendations in chatbot by UI.

1.2 Purpose

Recommender system has the ability to predict whether a particular user would prefer an item or not based on the user's profile. Recommender systems are beneficial to both service providers and users. They reduce transaction costs of finding and selecting items in an online shopping environment.

2.LITERATURE SURVEY

2.1 Existing Problem

In existing system only simple web application and their rating has been implemented in existing system, An ecommerce product recommendation engine is a piece of technology that displays recommended products to shoppers throughout your store. It uses machine learning to get smarter and show increasingly relevant products to shoppers based on their interests and previous browsing behavior. In existing model is content based filtering scheme has been employed in existing model **The content-based filtering method** analyzes customer data on the likes and dislikes of each user (cookies allow tracking over multiple visits), then makes recommendations based on the browsing history of that user. The idea behind content-based filtering is that if you enjoy a certain item, you'll likely also enjoy a similar item. An example of a content-based filtering system would be if you were listening to Pandora and consistently 'liked' downtempo jazz music.

The collaborative-filtering method incorporates data from users who have purchased similar products, then combines that information to make decisions about recommendations. The advantage to this filtering method is that it is capable of making complex recommendations on items such as music or movies without having to 'understand' what the item is. This method of filtering operates under the assumption that users will prefer recommendations that are based on purchases they made in the past. Here's an example: If customer A likes a specific line of products that customer B also likes (assuming they have similar interests), then collaborate-filtering would assume that customer A would like other products that customer B purchased and vice versa.

A hybrid method combines the content-based and collaborative-based methods to incorporate group decisions but focuses the output based on the attributes of a specific visitor. An example of a hybrid filtering system would be how Spotify curates its personalized 'Discover Weekly' playlists. If you've ever listened to a personalized Spotify playlist, it's shocking how accurately they're able to recommend songs based on what you like. The secret behind how they pull this off is through a complex hybrid filtering system that aggregates data on your listening habits as well as similar users' listening habits, to create a playlist of unique songs that align with your personal taste.

2.2 Reference

[1] Mohamed Elleuch, Anis Mezghani, Mariem Khemakhem, Monji Kherallah "Clothing Classification using Deep CNN Architecture based on Transfer Learning", 2021

[2] Saurabh Gupta, Siddartha Agarwal , Apporve Dave. "Apparel Classifier and Recommender using Deep Learning" (2015).

[3] Bossard, Lukas, Matthias Dantone, Christian Leistner, Christian Wengert, Till Quack and Luc Van Gool. "Apparel Claasification with Style". ACCV (2012).

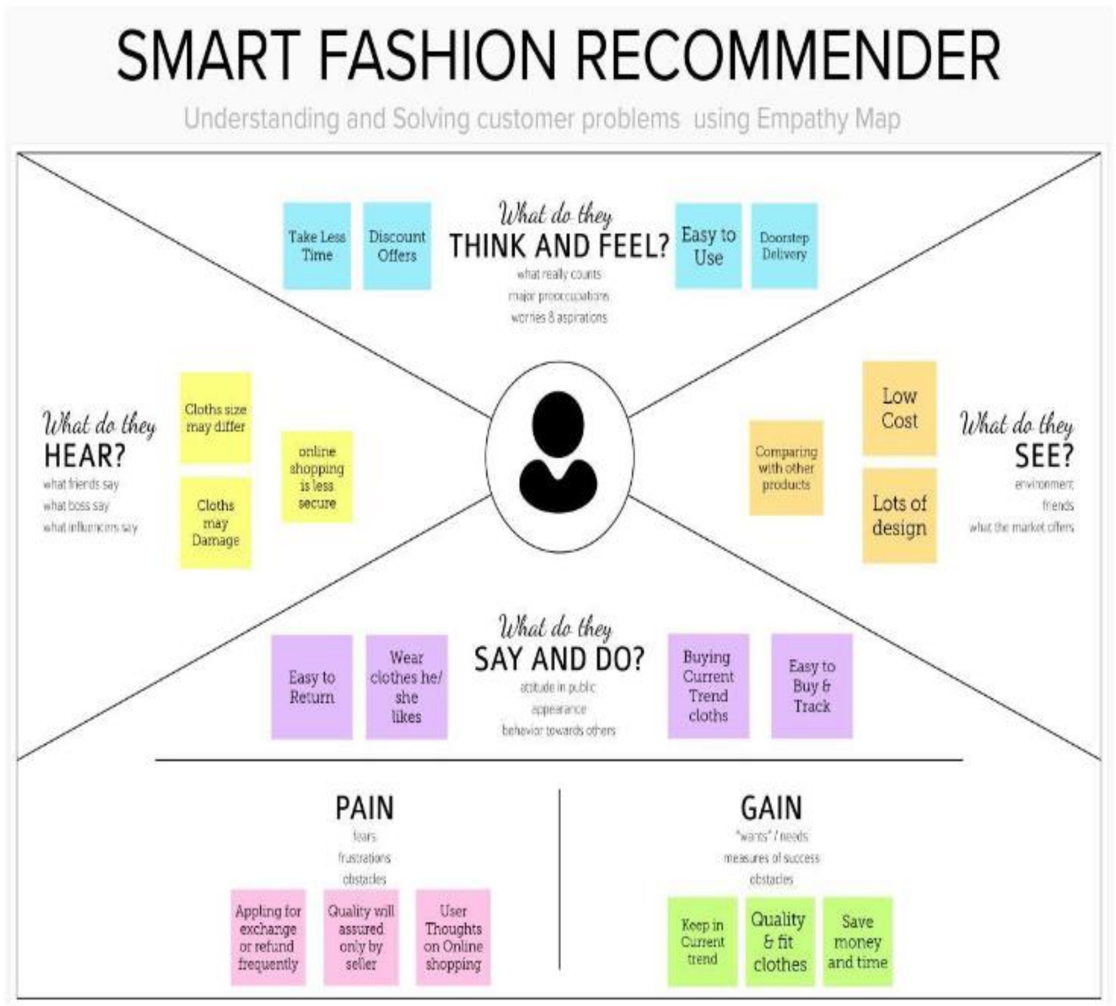
[4] Krizhevsky, Alex, Ilya Sutskever and Geoffery E. Hinton. "ImageNet claasifiaction with deep convolutional neural networks". Communications of the ACM 60 (2012).

2.3 Problem Statement Definition

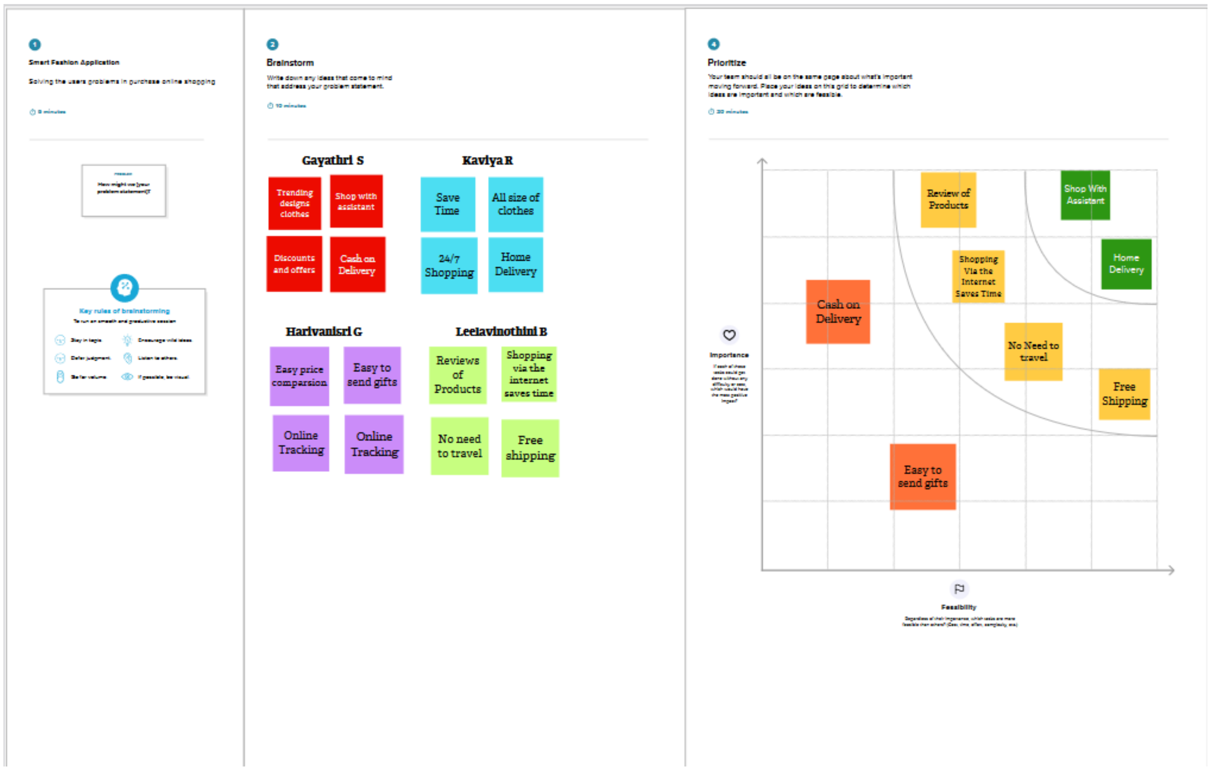
Over the years, much research has been conducted on fashion recommendation systems. Different techniques such as image processing, machine learning, or deep learning have been incorporated in the recommendation systems. Online e-stores like Amazon, eBay, etc. customize fashion recommendation systems to satisfy the daily requirements of their customers. A number of different approaches are proposed to study the purchase pattern of the customers. Our project is also works as a fashion recommenders using cloud application

3. IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas



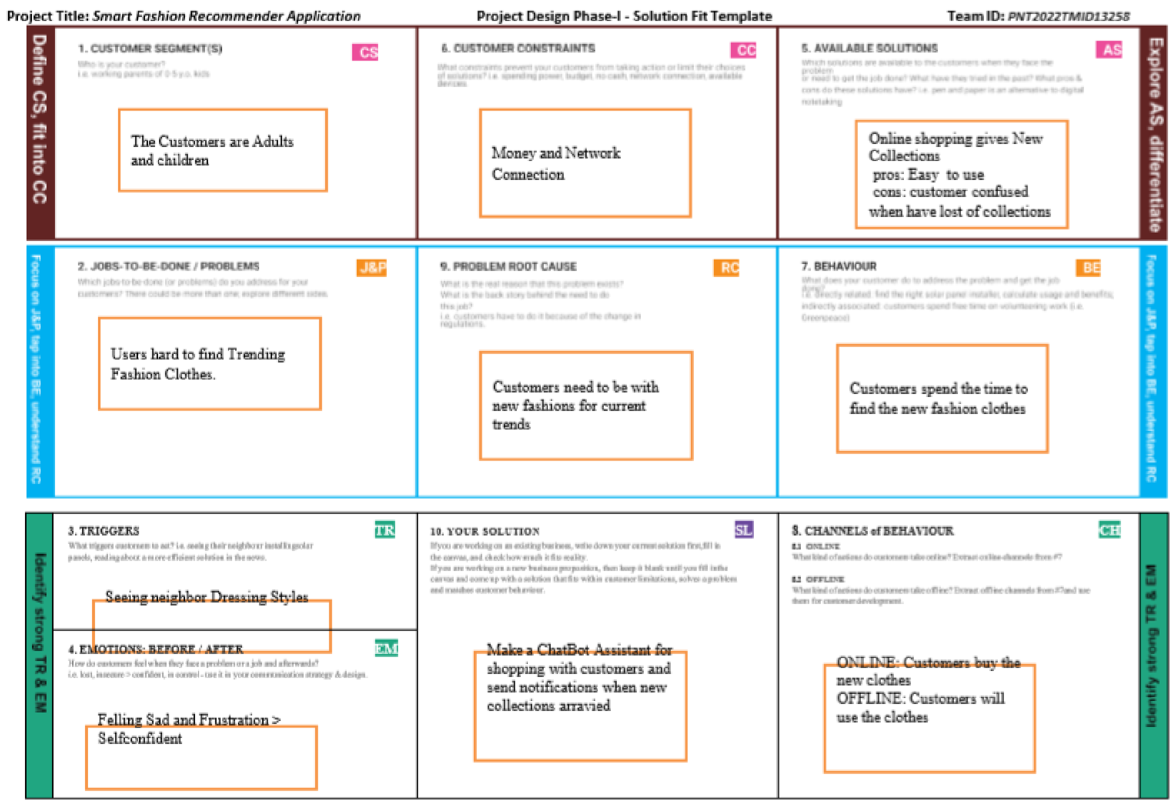
3.2 Ideation & Brainstorming



3.3 Proposed Solution

The proposed solutions web-based chatbot based applications is implemented with dash board applications is implemented for web applications The aim of this research is to build a perfume recommendation system. This system will help the user to get required perfumes. For that user has to provide description as a search query about the perfume according to his interest. This description can contain feelings, emotions, description, likes, dislikes and brand of the perfume. A chat bot will help the user to get the input in the form of search query and then provide the output as a recommended perfume what user is looking for. Initial work for research is collecting a data. Data required for this research contained the details in the form of name, brand, text descriptions, reviews, a list of notes. As we are using natural language processing, the text data must be pre-processed. It covers some tasks like making text data to lower case, removing stop words, tokenization, stemming, etc. shows tasks of pre-processing of data. Lowercasing – Lowercasing is the first step in data.

3.4 Problem Solution fit:



Project Title: *Smart Fashion Recommender Application* **Project Design Phase-I - Solution Fit Template** **Team ID:** *PNT2022TMID13258*

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

Who is your customer?
i.e. working parents of 0-5 y.o. kids

The Customers are Adults and children

6. CUSTOMER CONSTRAINTS CC

What constraints prevent your customers from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available devices.

Money and Network Connection

5. AVAILABLE SOLUTIONS AS

Which solutions are available to the customers when they face the problem
or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? i.e. pen and paper is an alternative to digital notetaking

Online shopping gives New Collections
pros: Easy to use
cons: customer confused when have lost of collections

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

2. JOBS-TO-BE-DONE / PROBLEMS J&P

Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.

Users hard to find Trending Fashion Clothes.

9. PROBLEM ROOT CAUSE RC

What is the real reason that this problem exists?
What is the back story behind the need to do this job?
i.e. customers have to do it because of the change in regulations.

Customers need to be with new fashions for current trends

7. BEHAVIOUR BE

What does your customer do to address the problem and get the job done?
i.e. directly related: find the right solar panel installer, calculate usage and benefits; indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace)

Customers spend the time to find the new fashion clothes

Focus on J&P, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS TR

What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news.

Seeing neighbor Dressing Styles

4. EMOTIONS: BEFORE / AFTER EM

How do customers feel when they face a problem or a job and afterwards?
i.e. lost, insecure > confident, in control - use it in your communication strategy & design.

Felling Sad and Frustration > Selfconfident

10. YOUR SOLUTION SL

If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality.
If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.

Make a ChatBot Assistant for shopping with customers and send notifications when new collections arravied

8. CHANNELS of BEHAVIOUR CH

8.1 ONLINE
What kind of actions do customers take online? Extract online channels from #7

8.2 OFFLINE
What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.

ONLINE: Customers buy the new clothes
OFFLINE: Customers will use the clothes

Identify strong TR & EM

4. REQUIREMENT ANALYSIS:

4.1 Functional Requirement

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form
FR-2	User Interaction	Interact through the Chat Bot
FR-3	Buying Products	Through the chat Bot Recommendation
FR-4	Track Products	Ask the Chat Bot to Track my Orders
FR-5	Return Products	Through the chat Bot
FR_6	New Collections	Recommended from chat Bot

4.2 Non-Functional Requirements:

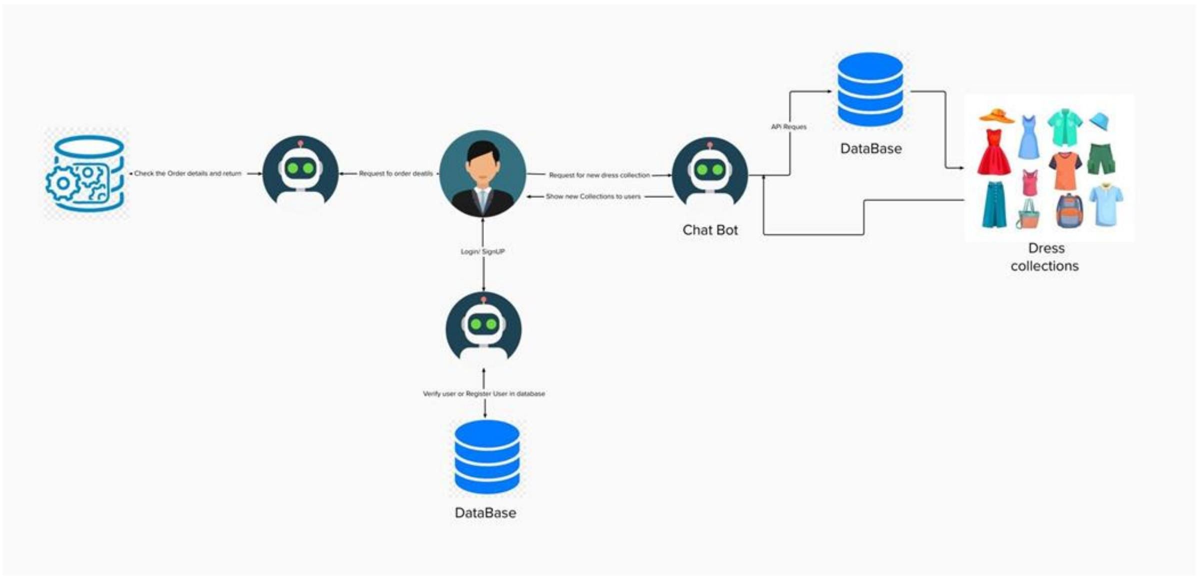
Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Using Android or IOS or windows applications.
NFR-2	**Security**	The user data is stored securely in IBM cloud.
NFR-3	**Reliability**	The Quality of the services are trusted.
NFR-4	**Performance**	Its Provide smooth user experience.
NFR-5	**Availability**	The services are available for 24/7.
NFR-6	**Scalability**	Its easy to scalable size of users and products.

5. PROJECT DESIGN:

5.1 Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.



Check the Order details and return
Request fo order deatils
Request for new dress collection
Show new Collections to users
API Reques
DataBase
Chat Bot
Dress collections
Login/ SignUP
Verify user or Register User in database
DataBase

5.2 Solution & Technical Architecture:

Technical Architecture:

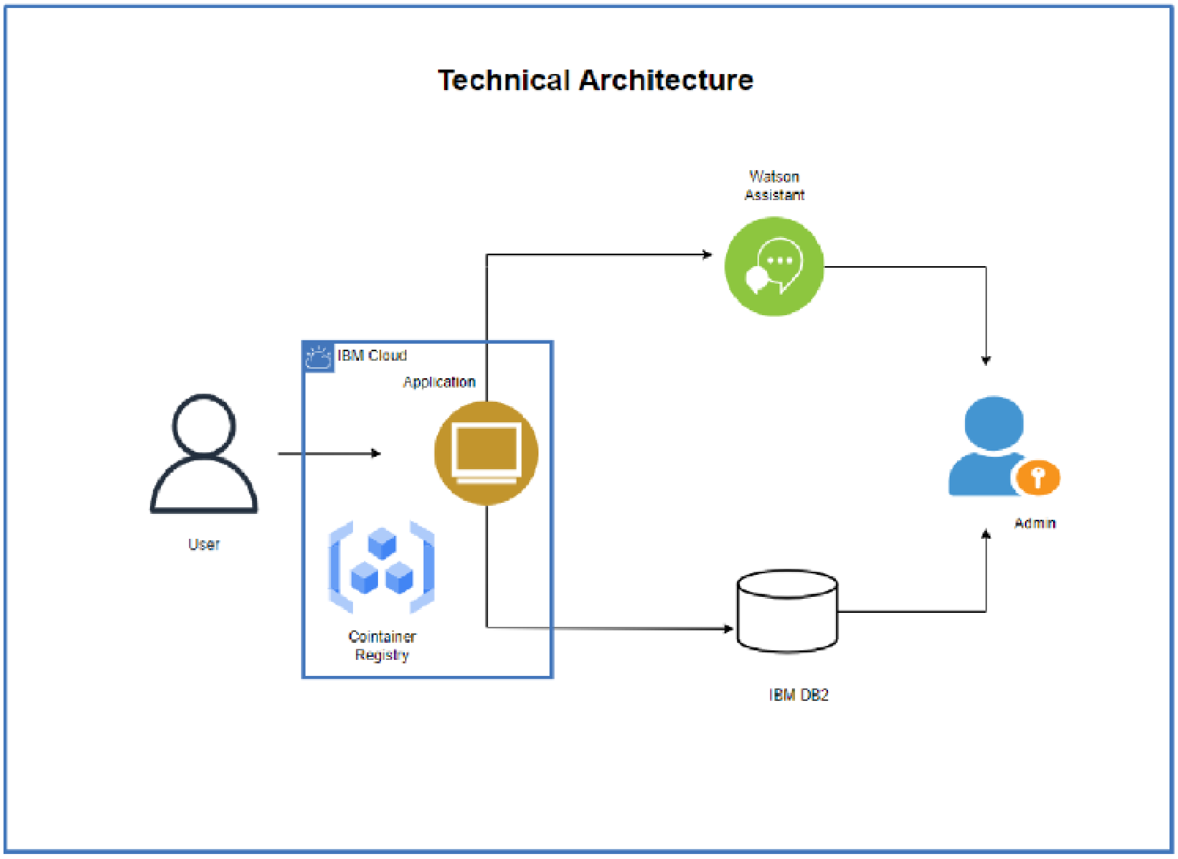


Table-1: Components & Technologies:

S.NO	Component	Description	Technology
1.	User Interface	How user interacts with application e.g., Web UI, Mobile App, ChatBot etc.	HTML,CSS, Javascript
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configuration etc.	MySQL
6.	Cloud Database	Database Service on Cloud	IBM DB2
7.	File Storage	File storage requirements	IBM Block Storage
8.	Infrastructure (Server/Cloud)	Application Deployment on cloud Server Configuration: Db2/python	Kubernetes

Table-2: Application Characteristics:

S.NO	Characteristics	Description	Technology
1	Open-Source Frameworks	Flask	Python
2	Encryption Hashing and Salting	Encryption Hashing and Salting	Encryptions
3	Scalable Architecture	Getting resources to different parts of the system that need it	Microservices Architecture
4	Availability	The Application available 24//7	IBM Cloud
5	Performance	1000 request per day	IBM Watson

5.3 User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation emailonce I have registered for the application	I can receive confirmationemail & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with FacebookLogin	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can access my data bylogin	High	Sprint-1
	Dashboard	USN-6	As a user , I can view the dashboard and byproducts		High	Sprit -2
Customer (Webuser)	Registration / Login	USN-7	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard		Sprint -1

Customer Care Executive	Contact with Customers	USN-8	As a Customer customers care executive, I solve the customer Requirements and feedback	I can receive calls from customers	High	Sprint-1
Administrator	Check stock and Price , orders	USN_9	As a Administrator , I can Check the database And stock details and buying and selling prices	I am the administrator of the company	High	Sprint -2

6. PROJECT PLANNING & SCHEDULING

6.1 Sprint Delivery Schedule:

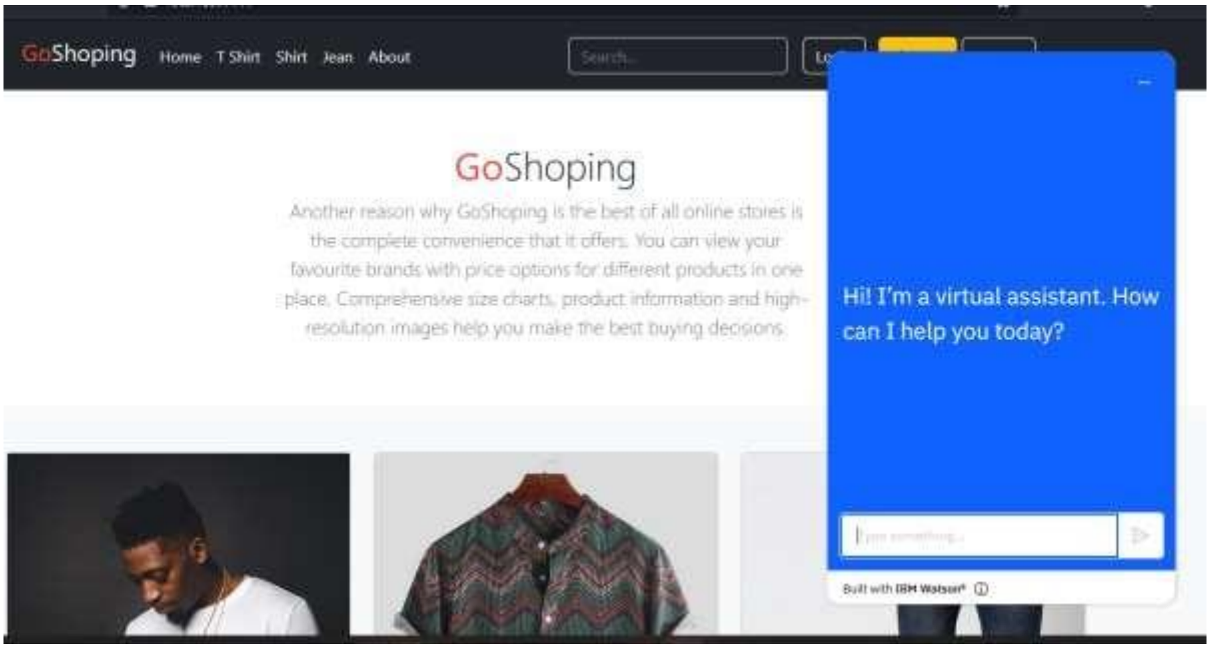
Product Backlog, Sprint Schedule, and Estimation
Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story/Task	Story Points	Priority	Team Members
Sprint 1	User Panel	USN-1	The user will login into the website and go through the products available on the website	20	High	Gayathri S Kaviya R Harivansri G Leelavinothini B

Sprint 2	Admin Panel	USN-2	The role of the admin is to check out the database about the stock and have a track of all things that the users are purchasing.	20	High	Gayathri S Kaviya R Harivansri G Leelavinothini B
Sprint 3	Chat Bot	USN-3	The user can directly talk to chatbot regarding the products. Get the recommendations based on information provided by the user.	20	High	Gayathri S Kaviya R Harivansri G Leelavinothini B
Sprint 4	Final Delivery	USN-4	Container of applications using docker kubernetes and deployment the application. Create the documentation and final submit the application	20	High	Gayathri S Kaviya R Harivansri G Leelavinothini B

7. CODING AND SOLUTION:

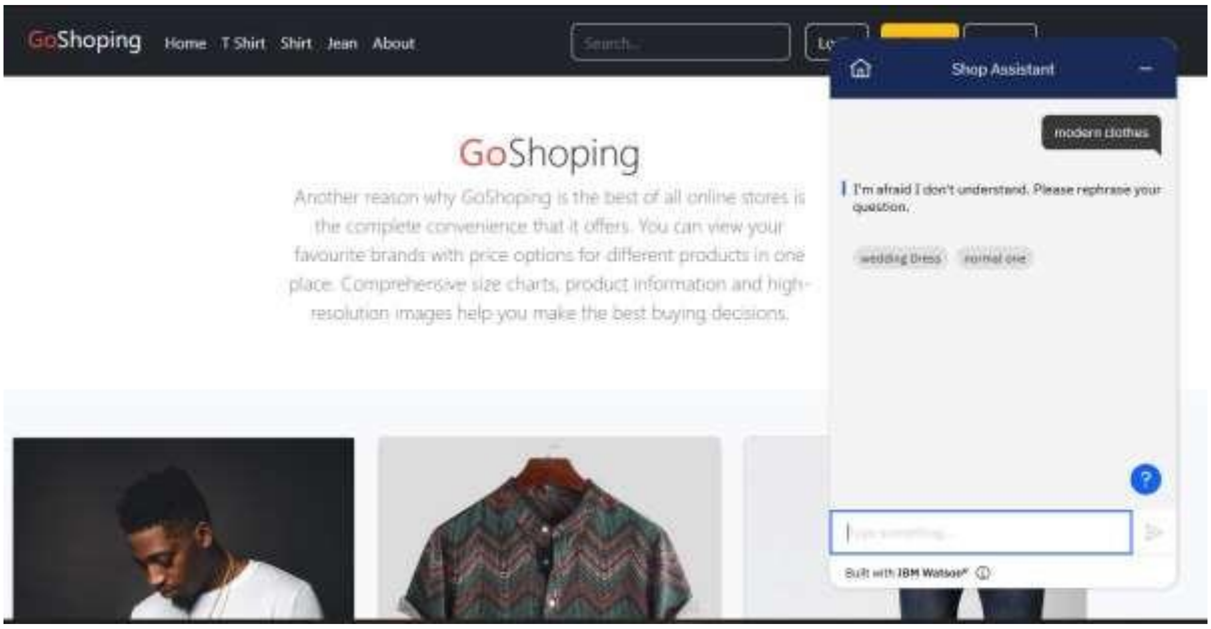
7.1 Feature 1:Chat Bot



GoShoping

Another reason why GoShoping is the best of all online stores is the complete convenience that it offers. You can view your favourite brands with price options for different products in one place. Comprehensive size charts, product information and high-resolution images help you make the best buying decisions.

Hi! I'm a virtual assistant. How can I help you today?



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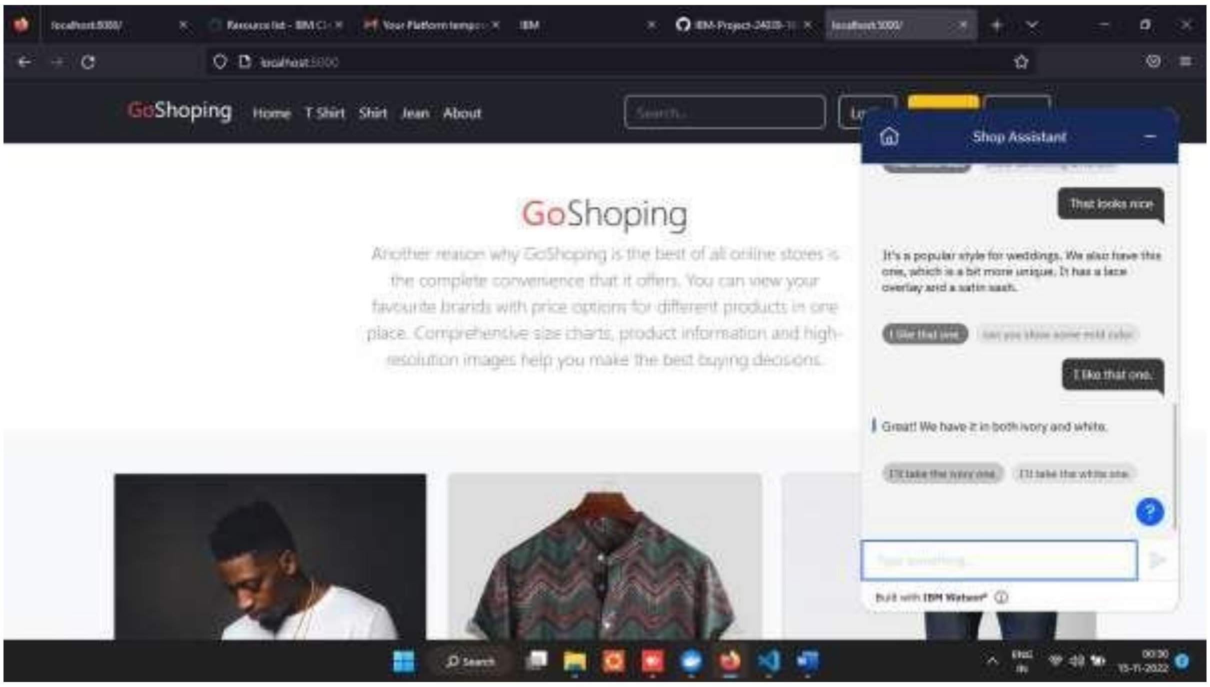
modern clothes

I'm afraid I don't understand. Please rephrase your question.

wedding Dress   normal one



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That looks nice

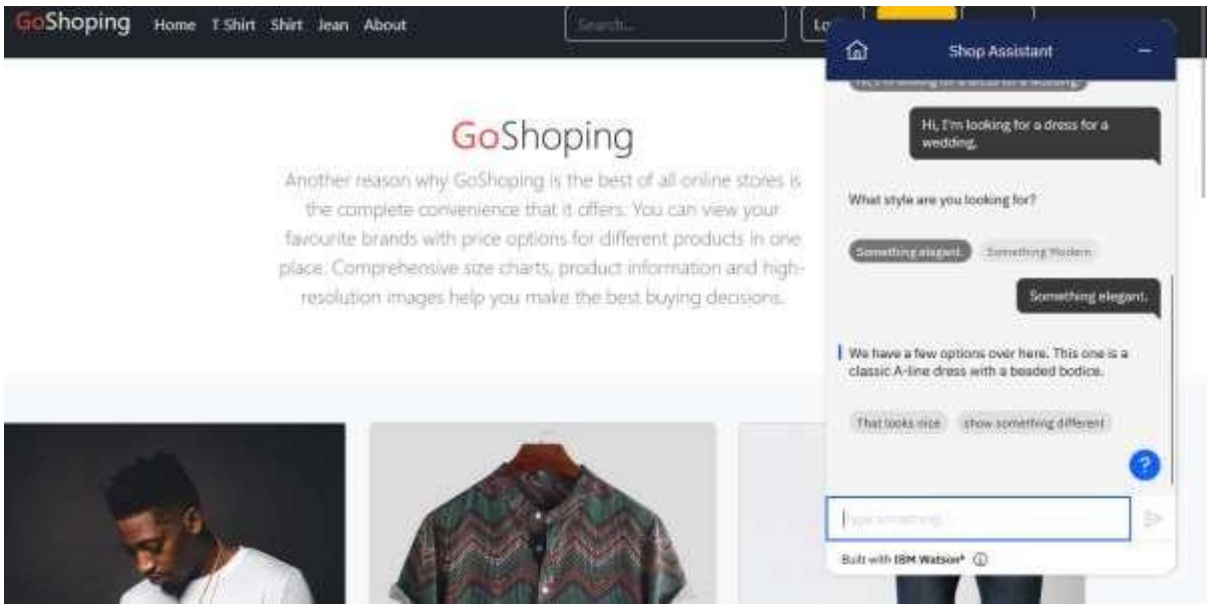
It's a popular style for weddings. We also have this one, which is a bit more unique. It has a lace overlay and a satin sash.

I like that one. | can you show some mild color

I like that one.

Great! We have it in both ivory and white.

I'll take the ivory one. | I'll take the white one.



GoShoping

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Hi, I'm looking for a dress for a wedding.

What style are you looking for?

Something elegant. | Something Modern

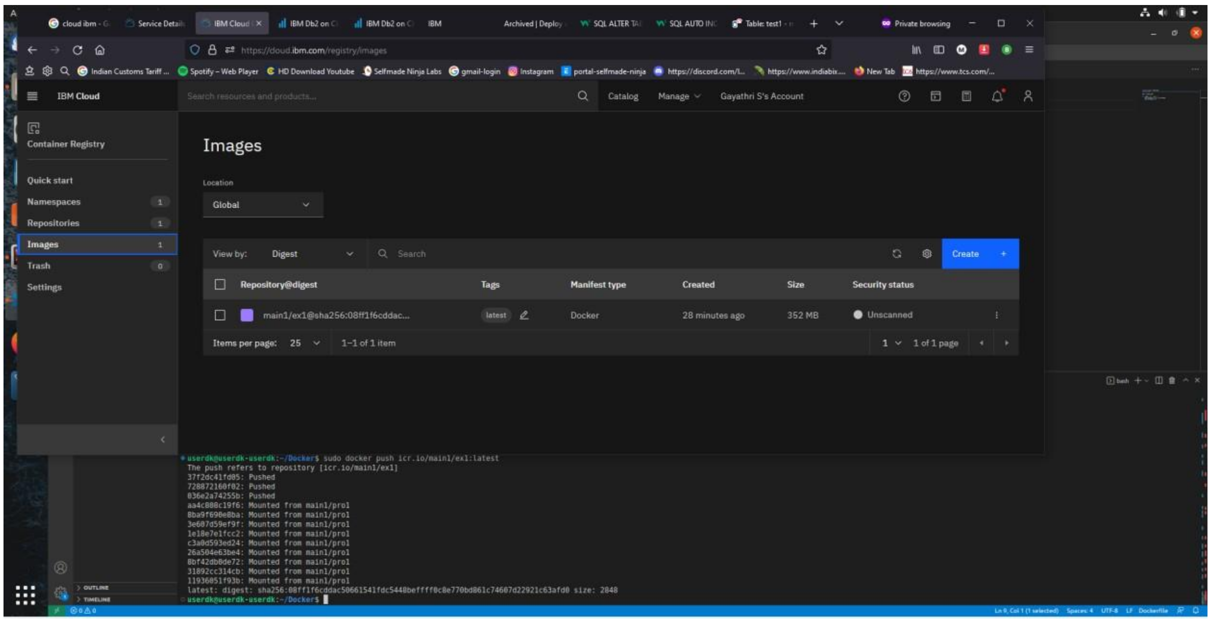
Something elegant.

We have a few options over here. This one is a classic A-line dress with a beaded bodice.

That looks nice | show something different

7.2 Database Schema

We use docker to store our images



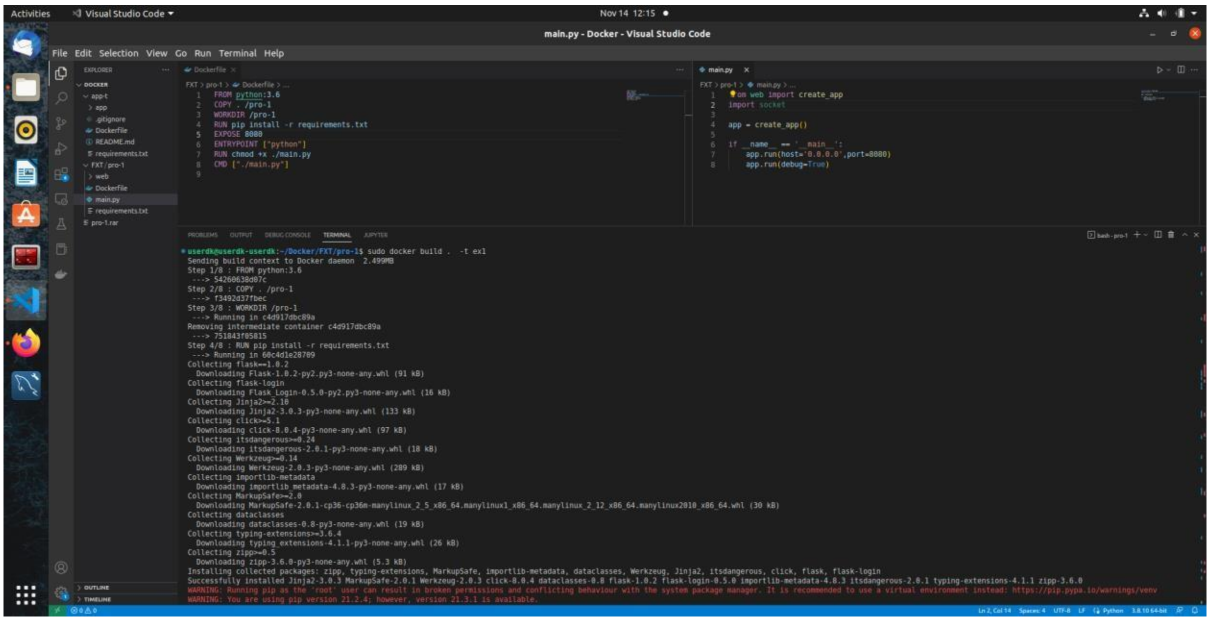
Images

Location: Global

Repository@digest	Tags	Manifest type	Created	Size	Security status
main1/ex1@sha256:08ff1f6cddac...	latest	Docker	28 minutes ago	352 MB	Unscanned

Items per page: 25 1–1 of 1 item 1 of 1 page

```
userdk@userdk-userdk:~/Docker$ sudo docker push icr.io/main1/ex1:latest
The push refers to repository [icr.io/main1/ex1]
37f2dc41fd05: Pushed
728872160f02: Pushed
036e2a74255b: Pushed
aa4c080c19f6: Mounted from main1/pro1
8ba9f690e8ba: Mounted from main1/pro1
3e607d59ef9f: Mounted from main1/pro1
1e18e7e1fcc2: Mounted from main1/pro1
c3a0d593ed24: Mounted from main1/pro1
26a504e63be4: Mounted from main1/pro1
8bf42db0de72: Mounted from main1/pro1
31892cc314cb: Mounted from main1/pro1
11936051f93b: Mounted from main1/pro1
latest: digest: sha256:08ff1f6cddac50661541fdc5448befff f0c8e770bd861c74607d22921c63afd0 size: 2048
userdk@userdk-userdk:~/Docker$
```

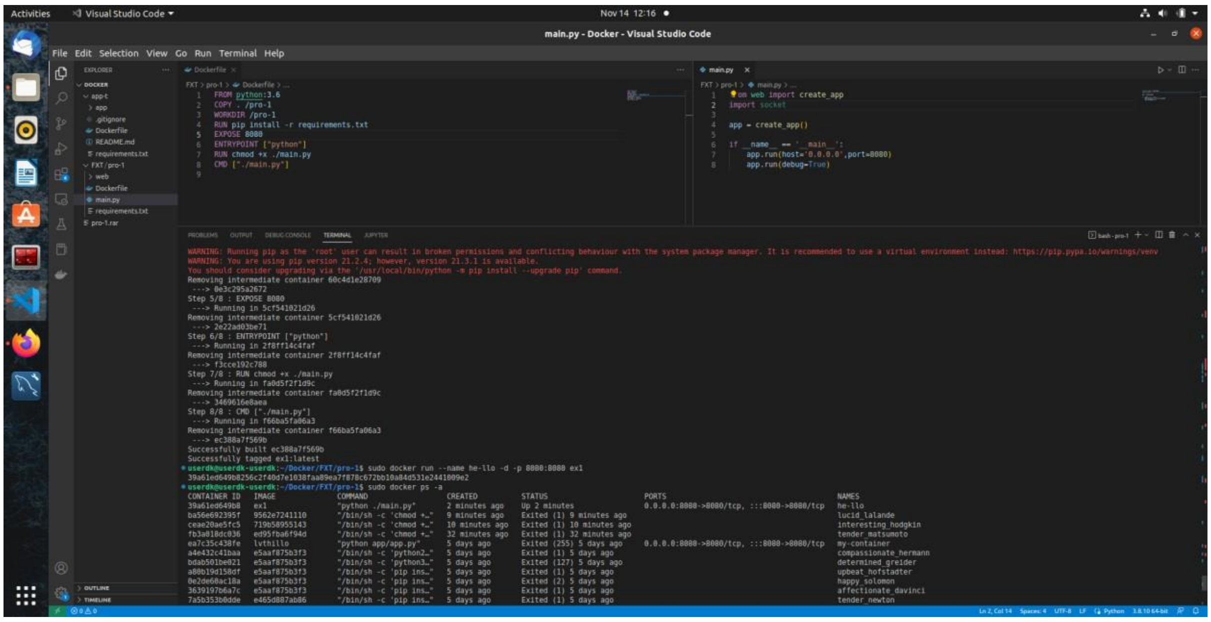


main.py - Docker - Visual Studio Code

```
FROM python:3.6
COPY . /pro-1
WORKDIR /pro-1
RUN pip install -r requirements.txt
EXPOSE 8080
ENTRYPOINT ["python"]
RUN chmod +x ./main.py
CMD ["./main.py"]
```

```
om web import create_app
import socket

app = create_app()

if __name__ == '__main__':
    app.run(host='0.0.0.0',port=8080)
    app.run(debug=True)
```

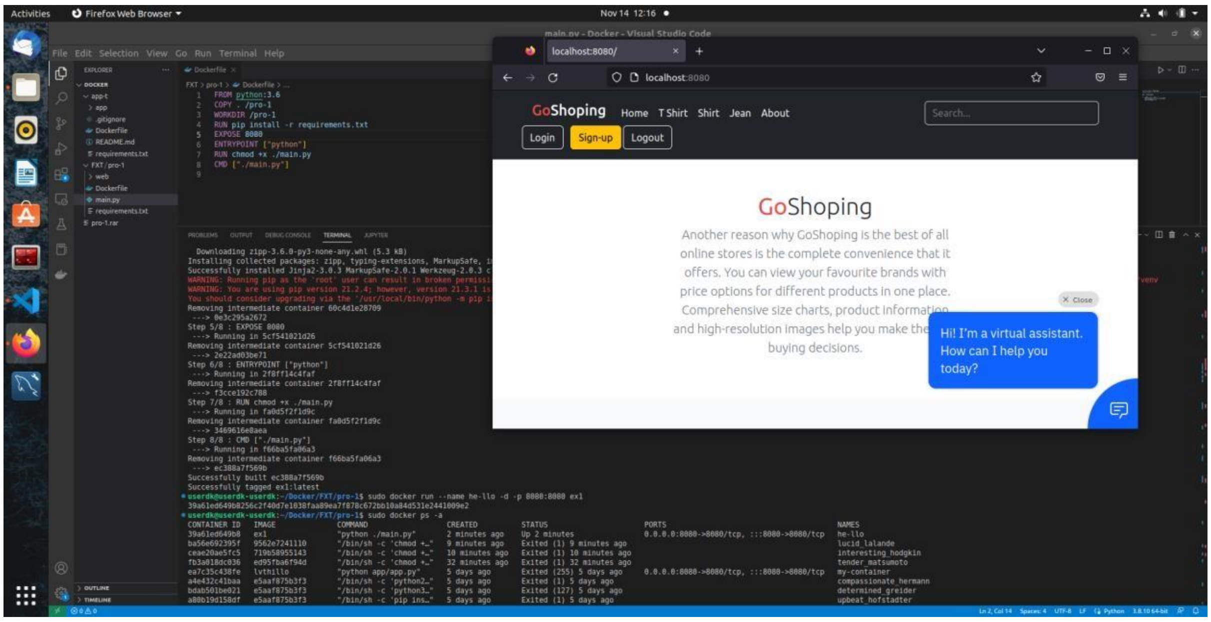
```
userdk@userdk-userdk:~/Docker/FXT/pro-1$ sudo docker build .  -t ex1
Sending build context to Docker daemon  2.499MB
Step 1/8 : FROM python:3.6
 ---> 54260638d07c
Step 2/8 : COPY . /pro-1
 ---> f3492d37fbec
Step 3/8 : WORKDIR /pro-1
 ---> Running in c4d917dbc89a
Removing intermediate container c4d917dbc89a
 ---> 751843f05815
Step 4/8 : RUN pip install -r requirements.txt
 ---> Running in 60c4d1e28709
Collecting flask==1.0.2
  Downloading Flask-1.0.2-py2.py3-none-any.whl (91 kB)
Collecting flask-login
  Downloading Flask_Login-0.5.0-py2.py3-none-any.whl (16 kB)
Collecting Jinja2>=2.10
  Downloading Jinja2-3.0.3-py3-none-any.whl (133 kB)
Collecting click>=5.1
  Downloading click-8.0.4-py3-none-any.whl (97 kB)
Collecting itsdangerous>=0.24
  Downloading itsdangerous-2.0.1-py3-none-any.whl (18 kB)
Collecting Werkzeug>=0.14
  Downloading Werkzeug-2.0.3-py3-none-any.whl (289 kB)
Collecting importlib-metadata
  Downloading importlib_metadata-4.8.3-py3-none-any.whl (17 kB)
Collecting MarkupSafe>=2.0
  Downloading MarkupSafe-2.0.1-cp36-cp36m-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_12_x86_64.manylinux2010_x86_64.whl (30 kB)
Collecting dataclasses
  Downloading dataclasses-0.8-py3-none-any.whl (19 kB)
Collecting typing-extensions>=3.6.4
  Downloading typing_extensions-4.1.1-py3-none-any.whl (26 kB)
Collecting zipp>=0.5
  Downloading zipp-3.6.0-py3-none-any.whl (5.3 kB)
Installing collected packages: zipp, typing-extensions, MarkupSafe, importlib-metadata, dataclasses, Werkzeug, Jinja2, itsdangerous, click, flask, flask-login
Successfully installed Jinja2-3.0.3 MarkupSafe-2.0.1 Werkzeug-2.0.3 click-8.0.4 dataclasses-0.8 flask-1.0.2 flask-login-0.5.0 importlib-metadata-4.8.3 itsdangerous-2.0.1 typing-extensions-4.1.1 zipp-3.6.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv
WARNING: You are using pip version 21.2.4; however, version 21.3.1 is available.
```



```
FROM python:3.6
COPY . /pro-1
WORKDIR /pro-1
RUN pip install -r requirements.txt
EXPOSE 8080
ENTRYPOINT ["python"]
RUN chmod +x ./main.py
CMD ["./main.py"]
```

```python
om web import create_app
import socket

app = create_app()

if __name__ == '__main__':
    app.run(host='0.0.0.0',port=8080)
    app.run(debug=True)
```

```
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv
WARNING: You are using pip version 21.2.4; however, version 21.3.1 is available.
You should consider upgrading via the '/usr/local/bin/python -m pip install --upgrade pip' command.
Removing intermediate container 60c4d1e28709
 ---> 0e3c295a2672
Step 5/8 : EXPOSE 8080
 ---> Running in 5cf541021d26
Removing intermediate container 5cf541021d26
 ---> 2e22ad03be71
Step 6/8 : ENTRYPOINT ["python"]
 ---> Running in 2f8ff14c4faf
Removing intermediate container 2f8ff14c4faf
 ---> f3cce192c788
Step 7/8 : RUN chmod +x ./main.py
 ---> Running in fa0d5f2f1d9c
Removing intermediate container fa0d5f2f1d9c
 ---> 3469616e8aea
Step 8/8 : CMD ["./main.py"]
 ---> Running in f66ba5fa06a3
Removing intermediate container f66ba5fa06a3
 ---> ec388a7f569b
Successfully built ec388a7f569b
Successfully tagged ex1:latest
userdk@userdk-userdk:~/Docker/FXT/pro-1$ sudo docker run --name he-llo -d -p 8080:8080 ex1
39a61ed649b8256c2f40d7e1038faa89ea7f878c672bb10a84d531e2441809e2
userdk@userdk-userdk:~/Docker/FXT/pro-1$ sudo docker ps -a
CONTAINER ID   IMAGE          COMMAND                  CREATED          STATUS                       PORTS                                       NAMES
39a61ed649b8   ex1            "python ./main.py"       2 minutes ago    Up 2 minutes                 0.0.0.0:8080->8080/tcp, :::8080->8080/tcp   he-llo
ba56e692395f   9562e7241110   "/bin/sh -c 'chmod +…"   9 minutes ago    Exited (1) 9 minutes ago                                                 lucid_lalande
ceae20ae5fc5   719b58955143   "/bin/sh -c 'chmod +…"   10 minutes ago   Exited (1) 10 minutes ago                                                interesting_hodgkin
fb3a018dc036   ed95fba6f94d   "/bin/sh -c 'chmod +…"   32 minutes ago   Exited (1) 32 minutes ago                                                tender_matsumoto
ea7c35c438fe   lvthillo       "python app/app.py"      5 days ago       Exited (255) 5 days ago      0.0.0.0:8080->8080/tcp, :::8080->8080/tcp   my-container
a4e432c41baa   e5aaf875b3f3   "/bin/sh -c 'python2…"   5 days ago       Exited (1) 5 days ago                                                    compassionate_hermann
bdab501be021   e5aaf875b3f3   "/bin/sh -c 'python3…"   5 days ago       Exited (127) 5 days ago                                                  determined_greider
a80b19d158df   e5aaf875b3f3   "/bin/sh -c 'pip ins…"   5 days ago       Exited (1) 5 days ago                                                    upbeat_hofstadter
0e2de60ac18a   e5aaf875b3f3   "/bin/sh -c 'pip ins…"   5 days ago       Exited (2) 5 days ago                                                    happy_solomon
3639197b6a7c   e5aaf875b3f3   "/bin/sh -c 'pip ins…"   5 days ago       Exited (1) 5 days ago                                                    affectionate_davinci
7a5b353b0dde   e465d887ab86   "/bin/sh -c 'pip ins…"   5 days ago       Exited (1) 5 days ago                                                    tender_newton
```

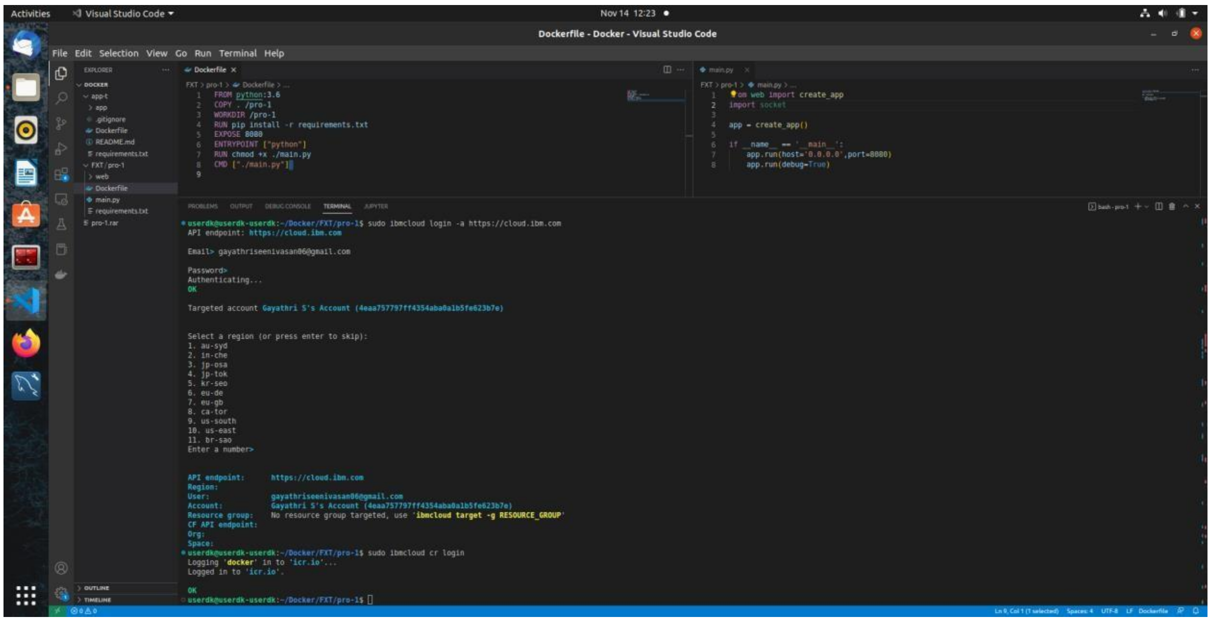


```
  Downloading zipp-3.6.0-py3-none-any.whl (5.3 kB)
Installing collected packages: zipp, typing-extensions, MarkupSafe, i
Successfully installed Jinja2-3.0.3 MarkupSafe-2.0.1 Werkzeug-2.0.3 c
WARNING: Running pip as the 'root' user can result in broken permissi
WARNING: You are using pip version 21.2.4; however, version 21.3.1 is
You should consider upgrading via the '/usr/local/bin/python -m pip i
```

GoShoping

Another reason why GoShoping is the best of all online stores is the complete convenience that it offers. You can view your favourite brands with price options for different products in one place. Comprehensive size charts, product information and high-resolution images help you make the buying decisions.

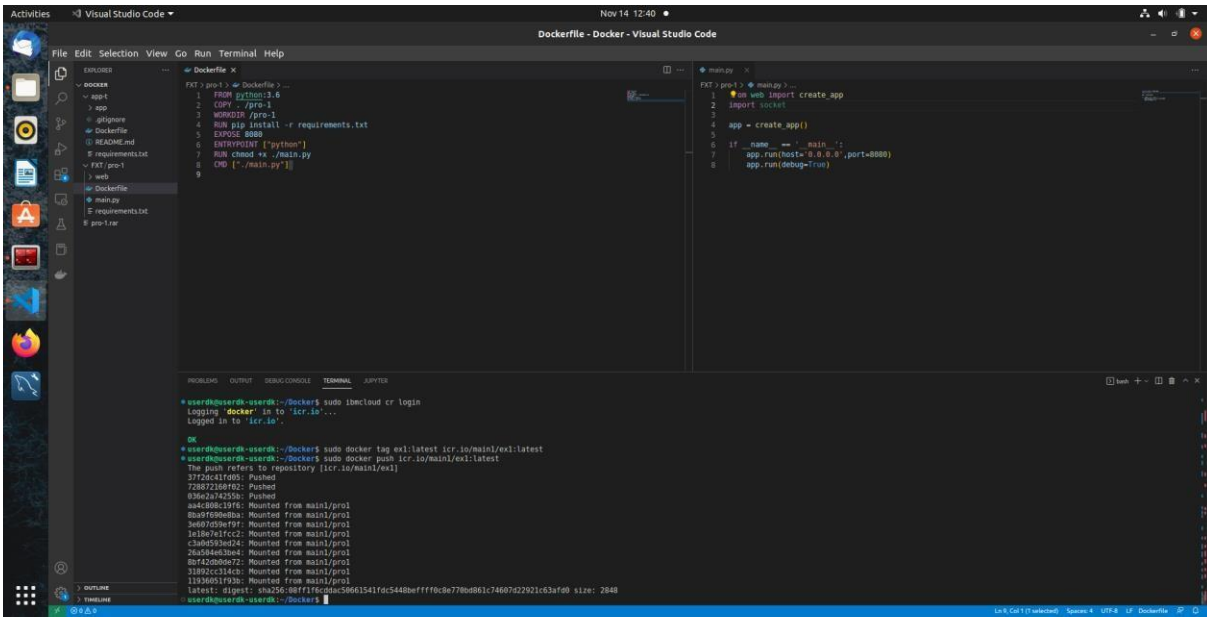
Hi! I'm a virtual assistant. How can I help you today?



```
FROM python:3.6
COPY . /pro-1
WORKDIR /pro-1
RUN pip install -r requirements.txt
EXPOSE 8080
ENTRYPOINT ["python"]
RUN chmod +x ./main.py
CMD ["./main.py"]
```

```
om web import create_app
import socket

app = create_app()

if __name__ == '__main__':
    app.run(host='0.0.0.0',port=8080)
    app.run(debug=True)
```

```
userdk@userdk-userdk:~/Docker/FXT/pro-1$ sudo ibmcloud login -a https://cloud.ibm.com
API endpoint: https://cloud.ibm.com

Email> gayathriseenivasan06@gmail.com

Password>
Authenticating...
OK

Targeted account Gayathri S's Account (4eaa757797ff4354aba0a1b5fe623b7e)


Select a region (or press enter to skip):
1. au-syd
2. in-che
3. jp-osa
4. jp-tok
5. kr-seo
6. eu-de
7. eu-gb
8. ca-tor
9. us-south
10. us-east
11. br-sao
Enter a number>


API endpoint:      https://cloud.ibm.com
Region:
User:              gayathriseenivasan06@gmail.com
Account:           Gayathri S's Account (4eaa757797ff4354aba0a1b5fe623b7e)
Resource group:    No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:
userdk@userdk-userdk:~/Docker/FXT/pro-1$ sudo ibmcloud cr login
Logging 'docker' in to 'icr.io'...
Logged in to 'icr.io'.

OK
userdk@userdk-userdk:~/Docker/FXT/pro-1$ 
```



```
FROM python:3.6
COPY . /pro-1
WORKDIR /pro-1
RUN pip install -r requirements.txt
EXPOSE 8080
ENTRYPOINT ["python"]
RUN chmod +x ./main.py
CMD ["./main.py"]
```

```
om web import create_app
import socket

app = create_app()

if __name__ == '__main__':
    app.run(host='0.0.0.0',port=8080)
    app.run(debug=True)
```

```
userdk@userdk-userdk:~/Docker$ sudo ibmcloud cr login
Logging 'docker' in to 'icr.io'...
Logged in to 'icr.io'.

OK
userdk@userdk-userdk:~/Docker$ sudo docker tag ex1:latest icr.io/main1/ex1:latest
userdk@userdk-userdk:~/Docker$ sudo docker push icr.io/main1/ex1:latest
The push refers to repository [icr.io/main1/ex1]
37f2dc41fd05: Pushed
728872160f02: Pushed
036e2a74255b: Pushed
aa4c808c19f6: Mounted from main1/pro1
8ba9f690e8ba: Mounted from main1/pro1
3e607d59ef9f: Mounted from main1/pro1
1e18e7e1fcc2: Mounted from main1/pro1
c3a0d593ed24: Mounted from main1/pro1
26a584e63be4: Mounted from main1/pro1
8bf42db0de72: Mounted from main1/pro1
31892cc314cb: Mounted from main1/pro1
11936051f93b: Mounted from main1/pro1
latest: digest: sha256:08ff1f6cddac50661541fdc5448befff f0c8e770bd861c74607d22921c63afd0 size: 2848
userdk@userdk-userdk:~/Docker$ 
```

Source Code:

Index.html

```
<!doctype html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="">
<meta name="author" content="Mark Otto, Jacob Thornton, and Bootstrap
```

```
contributors">
<meta name="generator" content="Hugo 0.104.2">
<title>Home</title>
<link rel="stylesheet" href="{{
url_for('static', filename='css/style.css') }}">
<!-- CSS only -->
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrapicons@
1.9.1/font/bootstrap-icons.css">
<link rel="canonical"
href="https://getbootstrap.com/docs/5.2/examples/album/">
<!-- <title>{% block title %}Home{% endblock %}</title> -->
<!-- <div class="container">{% block content %} {% endblock %}</div> -->
<link href="../assets/dist/css/bootstrap.min.css" rel="stylesheet">
<style>
.bd-placeholder-img {
font-size: 1.125rem;
text-anchor: middle;
-webkit-user-select: none;
-moz-user-select: none;

user-select: none;
}
@media (min-width: 768px) {
.bd-placeholder-img-lg {
font-size: 3.5rem;
}
}
.b-example-divider {
height: 3rem;
background-color: rgba(0, 0, 0, .1);
border: solid rgba(0, 0, 0, .15);
border-width: 1px 0;
box-shadow: inset 0 .5em 1.5em rgba(0, 0, 0, .1), inset 0 .125em .5em
rgba(0, 0, 0, .15);
}
.b-example-vr {
flex-shrink: 0;
width: 1.5rem;
height: 100vh;
}
.bi {
vertical-align: -.125em;
fill: currentColor;
}
.nav-scroller {
```

```
position: relative;
z-index: 2;
height: 2.75rem;
overflow-y: hidden;
}
.nav-scroller .nav {
display: flex;
flex-wrap: nowrap;
padding-bottom: 1rem;
margin-top: -1px;
overflow-x: auto;
text-align: center;
white-space: nowrap;
-webkit-overflow-scrolling: touch;
}
*{
margin: 0;
padding: 0;
box-sizing: border-box;
}
img{
width: 100%;
height: 450px;
object-fit: cover;
object-position: 50% 0;
}
</style>
</head>
<body>
<header class="p-3 text-bg-dark">
<div class="container">
<div class="d-flex flex-wrap align-items-center justify-content-center
justify-content-lg-start">
<a href="/" class="d-flex align-items-center mb-2 mb-lg-0 text-white
text-decoration-none">
<h4 class="px-3"><span
style="color:#eb4d4b;">Go</span>Shoping</h4>
<!-- <svg class="bi me-2" width="40" height="32" role="img" arialabel="
Bootstrap"><use xlink:href="#bootstrap"></use></svg> -->
</a>
<ul class="nav col-12 col-lg-auto me-lg-auto mb-2 justify-contentcenter
mb-md-0">
<li><a href="/" class="nav-link px-2 text-white"> Home</a></li>
<li><a href="#tshirt" class="nav-link px-2 text-white">T
Shirt</a></li>
<li><a href="#formal shit" class="nav-link px-2 textwhite">
Shirt</a></li>
<li><a href="#" class="nav-link px-2 text-white">Jean</a></li>
<li><a href="#" class="nav-link px-2 text-white">About</a></li>
</ul>
```

```
<form class="col-12 col-lg-auto mb-3 mb-lg-0 me-lg-3" role="search">
<input type="search" class="form-control form-control-dark text-bgdark"
placeholder="Search..." aria-label="Search">
</form>
<div class="text-end">
<a href="/login"><button type="button" class="btn btn-outline-light
me-2">Login</button></a>
<a href="/signup"><button type="button" class="btn btnwarning">
Sign-up</button></a>
<a href="/login"><button type="button" class="btn btn-outline-light
me-2">Logout</button></a>
</div>
<div class="dropdown text-end mx-3">
<a href="#" class="d-block link-dark text-decoration-none dropdowntoggle"
data-bs-toggle="dropdown" aria-expanded="false">
<!-- <img src="https://github.com/mdo.png" alt="mdo" width="32"
height="32" class="rounded-circle"> -->
</a>
<ul class="dropdown-menu text-small" >
<li><a class="dropdown-item" href="#">Profile</a></li>
<li><a class="dropdown-item" href="#">Dashboard</a></li>
<li><hr class="dropdown-divider"></li>
<li><a class="dropdown-item" href="#">Sign out</a></li>
</ul>
</div>
</div>
</div>
</header>
<main>
<section class="py-1 text-center container">
<div class="row py-lg-5">
<div class="col-lg-6 col-md-8 mx-auto">
<h1 class="fw-light"><span style="color:#eb4d4b;font-weight:
400;">Go</span>Shoping</h1>
<p class="lead text-muted">Another reason why GoShoping is the
best of all online stores is the complete convenience that it offers. You can
view your favourite brands with price options for different products in one
place. Comprehensive size charts, product information and high-resolution
images help you make the best buying decisions.</p>
<!-- <a href="#" class="btn btn-primary my-2">Main call to
action</a>
<a href="#" class="btn btn-secondary my-2">Secondary
action</a> -->
</p>
</div>
</div>
</section>
<!-- <div class="card" style="width: 18rem;">
<img src="..." class="card-img-top" alt="...">
<div class="card-body">
```

```
<h5 class="card-title">Card title</h5>
<p class="card-text">Some quick example text to build on the
card title and make up the bulk of the card's content.</p>
<a href="#" class="btn btn-primary">Go somewhere</a>
</div>
</div> -->
<div class="album py-5 bg-light">
<div class="container">
<div class="row row-cols-1 row-cols-sm-1 row-cols-sm-3 g-4">
<div class="col">
<div class="card shadow-sm" id="tshirt">
<img src="{{ url_for('static', filename='clothimg/1.jpg')
}}" alt="">
<div class="card-body">
<h6>T Shirt</h6>
<p class="card-text">
Symbol Men's Regular Polo Shirt</p>
<div class="d-flex justify-content-between align-itemscenter">
<div class="btn-group">
<button type="button" class="btn btn-sm btn-outlinesecondary">$
9</button>
<button type="button" class="btn btn-sm btn-outlinesecondary"><
s>($15)</s> 27% off</button>
</div>
<small class="text-muted">Prime</small>
</div>
</div>
</div>
</div>
<div class="col">
<div class="card shadow-sm"><img src="https://imagesdo.
nyc3.cdn.digitaloceanspaces.com/lAVtCJXFVr/product_images/1618468852.BKT005
.jpeg" alt="Khankudi's Zigzag Printed Premium Tencel Kurta Shirt" class="imgf-
con">
<div class="card-body">
<h6>Shirt</h6>
<p class="card-text">Men Slim Fit Striped Spread Collar
Casual Shirt</p>
<div class="d-flex justify-content-between align-itemscenter">
<div class="btn-group">
<button type="button" class="btn btn-sm btn-outlinesecondary">$
12</button>
<button type="button" class="btn btn-sm btn-outlinesecondary"><
s>($19)</s> 15% off</button>
</div>
<small class="text-muted">Prime</small>
</div>
</div>
</div>
</div>
```

```
<div class="col">
<div class="card shadow-sm">
<img class="img-alignment"
src="https://d1pdzcnm6xgxlz.cloudfront.net/bottoms/8905074715749-9.jpg">
<div class="card-body">
<h6>Jean</h6>
<p class="card-text">Fit Men Jeans</p>
<div class="d-flex justify-content-between align-itemscenter">
<div class="btn-group">
<button type="button" class="btn btn-sm btn-outlinesecondary">$
17</button>
<button type="button" class="btn btn-sm btn-outlinesecondary"><
s>($26)</s> 15% off</button>
</div>
<!-- <small class="text-muted">9 mins</small> -->
</div>
</div>
</div>
</div>
<div class="col">
<div class="card shadow-sm">
<img class="_2r_T1I _396QI4" alt=""
src="https://rukminim1.flixcart.com/image/832/832/xif0q/cargo/4/q/y/xxlbblcargo-
p17-blive-original-imaggsnaur8ptuee.jpeg?q=70">
<div class="card-body">
<h6>Jogger</h6>
<p class="card-text">Jogger Fit Men Grey Jeans</p>
<div class="d-flex justify-content-between align-itemscenter">
<div class="btn-group">
<button type="button" class="btn btn-sm btn-outlinesecondary">$
15</button>
<button type="button" class="btn btn-sm btn-outlinesecondary"><
s>($21)</s> 15% off</button>
</div>
<small class="text-muted">Prime</small>
</div>
</div>
</div>
</div>
<div class="col">
<div class="card shadow-sm">
<img class="_2r_T1I _396QI4" alt=""
src="https://rukminim1.flixcart.com/image/832/832/knrsjgw0/short/l/g/y/30-
hlv8000515-highlander-original-imag2dhdcw88vx5k.jpeg?q=70">
<div class="card-body">
<h6>Men Shorts</h6>
<p class="card-text">Solid Men Shorts, Regular Shorts</p>
<div class="d-flex justify-content-between align-itemscenter">
<div class="btn-group">
<button type="button" class="btn btn-sm btn-outlinesecondary">$
```

```
8</button>
<button type="button" class="btn btn-sm btn-outlinesecondary"><
s>($11)</s> 15% off</button>
</div>
<small class="text-muted"></small>
</div>
</div>
</div>
</div>
<div class="col">
<div class="card shadow-sm">
<img class="_2r_T1I _396QI4" alt=""
src="https://rukminim1.flixcart.com/image/832/832/ksuowi80/shirt/w/p/o/xxlfrml-
st2-vebnor-original-imag6bkegkwmqv75.jpeg?q=70">
<div class="card-body">
<h6>Formal Shirt</h6>
<p class="card-text">Men Slim Fit Collar Casual Shirt</p>
<div class="d-flex justify-content-between align-itemscenter">
<div class="btn-group">
<button type="button" class="btn btn-sm btn-outlinesecondary">$
11</button>
<button type="button" class="btn btn-sm btn-outlinesecondary"><
s>($19)</s> 15% off</button>
</div>
<small class="text-muted">Prime</small>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</main>
<footer class="text-muted py-5">
<div class="container">
<p class="float-end mb-1">
<a href="#">Back to top</a>
</p>
<!-- <p class="mb-1">Album example is &copy; Bootstrap, but please
download and customize it for yourself!</p>
<p class="mb-0">New to Bootstrap? <a href="/">Visit the homepage</a> or
read our <a href="../getting-started/introduction/">getting started
guide</a>.</p> -->
</div>
</footer>
<script>
window.watsonAssistantChatOptions = {
integrationID: "7106a37a-cf0c-4e54-a22c-0b49fbe2e8e2", // The ID of this
integration.
region: "au-syd", // The region your integration is hosted in.
serviceInstanceID: "3ea83de1-6380-4510-8ebc-0bab99f8c852", // The ID of
your service instance.
onLoad: function(instance) { instance.render(); }
};
setTimeout(function(){
const t=document.createElement('script');
t.src="https://webchat.
global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') +
"/WatsonAssistantChatEntry.js";
document.head.appendChild(t);
});
</script>
<script src="https://code.jquery.com/jquery-3.6.1.slim.min.js"
integrity="sha256-w8CvhFs7iHNVUtnSP0YKEg00p9Ih13rlL9zGqvLdePA="
crossorigin="anonymous"></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min
.js" integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>
</body>
</html>
```

Signup.html

```
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Signup</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">
<link
rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.m
in.css"
integrity="sha384-
Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh"
crossorigin="anonymous"
/>
<link
rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/font-awesome/4.7.0/css/fontawesome.
```

```
min.css"
crossorigin="anonymous"
/>
<link rel="stylesheet" href="{{
url_for('static', filename='css/signup.css') }}">
<style>
.bd-placeholder-img {
font-size: 1.125rem;
text-anchor: middle;
-webkit-user-select: none;
-moz-user-select: none;
user-select: none;
}
@media (min-width: 768px) {
.bd-placeholder-img-lg {
font-size: 3.5rem;
}
}
.b-example-divider {
height: 3rem;
background-color: rgba(0, 0, 0, .1);
border: solid rgba(0, 0, 0, .15);
border-width: 1px 0;
box-shadow: inset 0 .5em 1.5em rgba(0, 0, 0, .1), inset 0 .125em .5em
rgba(0, 0, 0, .15);
}
.b-example-vr {
flex-shrink: 0;
width: 1.5rem;
height: 100vh;
}
.bi {
vertical-align: -.125em;
fill: currentColor;
}
.nav-scroller {
position: relative;
z-index: 2;
height: 2.75rem;
overflow-y: hidden;
}
.nav-scroller .nav {
display: flex;
flex-wrap: nowrap;
padding-bottom: 1rem;
margin-top: -1px;
overflow-x: auto;
text-align: center;
white-space: nowrap;
-webkit-overflow-scrolling: touch;
}
</style>
</head>
<body>
<header class="p-3 text-bg-dark">
<div class="container">
<div class="d-flex flex-wrap align-items-center justify-content-center
justify-content-lg-start">
<a href="/" class="d-flex align-items-center mb-2 mb-lg-0 text-white
text-decoration-none">
<h4 class="px-3"><span style="color:#eb4d4b;">Go</span>Shoping</h4>
</a>
<ul class="nav col-12 col-lg-auto me-lg-auto mb-2 justify-contentcenter
mb-md-0">
<!-- <li><a href="#" class="nav-link px-2 text-white">Home</a></li>
<li><a href="#" class="nav-link px-2 text-white">Features</a></li>
<li><a href="#" class="nav-link px-2 text-white">Pricing</a></li>
<li><a href="#" class="nav-link px-2 text-white">FAQs</a></li>
<li><a href="#" class="nav-link px-2 text-white">About</a></li> -->
</ul>
<!-- <form class="col-12 col-lg-auto mb-3 mb-lg-0 me-lg-3"
role="search">
<input type="search" class="form-control form-control-dark text-bgdark"
placeholder="Search..." aria-label="Search">
</form> -->
<div class="text-end">
<!-- <button type="button" class="btn btn-outline-light me-
2">Login</button> -->
<a href="/login"><button type="button" class="btn btnwarning">
Login</button></a>
</div>
</div>
</div>
</header>
{% with messages = get_flashed_messages(with_categories=true) %} {% if
messages %} {% for category, message in messages %} {% if category ==
'error' %}
<div class="alert alert-danger alter-dismissable fade show" role="alert">
{{ message }}
<button type="button" class="close" data-dismiss="alert">
<span aria-hidden="true">&times;</span>
</button>
</div>
{% else %}
<div class="alert alert-success alter-dismissable fade show" role="alert">
{{ message }}
<button type="button" class="close" data-dismiss="alert">
<span aria-hidden="true">&times;</span>
</button>
</div>
```

```
{% endif %} {% endfor %} {% endif %} {% endwith %}
<main class="form-signin w-100 text-center">
<form method="post" >
<!-- <img class="mb-4" src="/docs/5.2/assets/brand/bootstrap-logo.svg"
alt="" width="72" height="57"> -->
<h1 class="h3 mt-4 mb-5 fw-normal">Please SIGN UP</h1>
<div class="form-floating">
<input type="email" name="email" class="form-control"
id="floatingInput" placeholder="name@example.com">
<label for="floatingPassword">Email</label>
</div>
<div class="form-floating">
<input type="Username" name="username" class="form-control"
id="floatingPassword" placeholder="Username">
<label for="floatingPassword">Username</label>
</div>
<div class="form-floating">
<input type="password" name="password" class="form-control"
id="floatingPassword" placeholder="Password">
<label for="floatingPassword">Password</label>
</div>
<div class="form-floating">
<input type="phone" name="phone" class="form-control"
id="floatingPassword" placeholder="Phone">
<label for="floatingPassword">Phone</label>
</div>
<div class="checkbox mt-4 mb-4">
<label>
<input type="checkbox" value="remember-me"> Remember me
</label>
</div>
<button class="btn1" type="sumit"><span>Sign up</span></button>
<p class="mt-5 mb-3 text-white">© 2022–2023</p>
</form>
</main>
<script
src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
integrity="sha384-
KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
crossorigin="anonymous"
></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.mi
n.js"
integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
crossorigin="anonymous"
></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"
```

```
integrity="sha384-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYl"
crossorigin="anonymous"
></script>
</body>
</html>
```

Login.html

```
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Login</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
Zenh87qX5JnK2Jl0vWa8Ck2rdkQ2Bzep5IDxbcnCeuOxjzrPF/et3URy9Bv1WTRi"
crossorigin="anonymous">
<link rel="stylesheet" href="{{
url_for('static', filename='css/login.css') }}">
<style>
.bd-placeholder-img {
font-size: 1.125rem;
text-anchor: middle;
-webkit-user-select: none;
-moz-user-select: none;
user-select: none;
}
@media (min-width: 768px) {
.bd-placeholder-img-lg {
font-size: 3.5rem;
}
}
.b-example-divider {
height: 3rem;
background-color: rgba(0, 0, 0, .1);
border: solid rgba(0, 0, 0, .15);
border-width: 1px 0;
box-shadow: inset 0 .5em 1.5em rgba(0, 0, 0, .1), inset 0 .125em .5em
rgba(0, 0, 0, .15);
}
.b-example-vr {
flex-shrink: 0;
width: 1.5rem;
height: 100vh;
}
.bi {
vertical-align: -.125em;
fill: currentColor;
}
.nav-scroller {
position: relative;
z-index: 2;
height: 2.75rem;
overflow-y: hidden;
}
.nav-scroller .nav {
display: flex;
flex-wrap: nowrap;
padding-bottom: 1rem;
margin-top: -1px;
overflow-x: auto;
text-align: center;
white-space: nowrap;
-webkit-overflow-scrolling: touch;
}
</style>
</head>
<body>
<header class="p-3 text-bg-dark">
<div class="container">
<div class="d-flex flex-wrap align-items-center justify-content-center
justify-content-lg-start">
<a href="/" class="d-flex align-items-center mb-2 mb-lg-0 text-white
text-decoration-none">
<h4 class="px-3"><span style="color:#eb4d4b;">Go</span>Shoping</h4>
</a>
<ul class="nav col-12 col-lg-auto me-lg-auto mb-2 justify-contentcenter
mb-md-0">
<!-- <li><a href="#" class="nav-link px-2 text-white">Home</a></li>
<li><a href="#" class="nav-link px-2 text-white">Features</a></li>
<li><a href="#" class="nav-link px-2 text-white">Pricing</a></li>
<li><a href="#" class="nav-link px-2 text-white">FAQs</a></li>
<li><a href="#" class="nav-link px-2 text-white">About</a></li> -->
</ul>
<!-- <form class="col-12 col-lg-auto mb-3 mb-lg-0 me-lg-3"
role="search">
<input type="search" class="form-control form-control-dark text-bgdark"
placeholder="Search..." aria-label="Search">
</form> -->
<div class="text-end">
<!-- <button type="button" class="btn btn-outline-light me-
2">L</button> -->
<a href="/signup"><button type="button" class="btn btnwarning">
Sign-up</button></a>
</div>
</div>
</div>
```

```
</header>
<main class="form-signin w-100 text-center">
<form method="post">
<!-- <img class="mb-4" src="/docs/5.2/assets/brand/bootstrap-logo.svg"
alt="" width="72" height="57"> -->
<h1 class="h3 mt-4 mb-5 fw-normal">LOGIN </h1>
<div class="form-floating">
<input type="Username" name="username" class="form-control"
id="floatingInput" placeholder="name@example.com">
<label for="floatingPassword">Email or Username</label>
</div>
<div class="form-floating">
<input type="password" name="password" class="form-control"
id="floatingPassword" placeholder="Password">
<label for="floatingPassword">Password</label>
</div>
<div class="checkbox mt-4 mb-4">
<label>
<input type="checkbox" value="remember-me"> Remember me
</label>
</div>
<a href="/"><button class="btn1"
type="button"><span>Login</span></button></a></form>
<p class="mt-5 mb-3 text-white">© 2022–2023</p>
</form>
</main>
</body>
</html>
```

Home.html:

```
<!-- {% extends "index.html" %}{% block title %}Home{% endblock %} -->
Static:
Login.css:
/* html,
body {
height: 100%;
} */
body {
/* display: flex;
align-items: center;
padding-top: 40px;
padding-bottom: 40px; */
background-image: url(../images/3.jpg);
background-color: #cccccc;
background-position: center;
background-repeat: no-repeat;
background-size: cover;
}
.form-signin {
```

```
width: 100%;
margin: auto;
max-width: 390px;
padding: 15px;
margin-top: 100px;
backdrop-filter: blur(2px) saturate(180%);
-webkit-backdrop-filter: blur(13px) saturate(180%);
background-color: rgba(17, 25, 40, 0.75);
border-radius: 12px;
border: 1px solid rgba(255, 255, 255, 0.125);
}
.form-floating .form-control{
font-weight:bold;
color: black;
}
.form-signin .checkbox {
font-weight: 400;
}
.form-signin .form-floating{
margin-left: 25px;
margin-right: 25px;
}
.form-signin .form-floating:focus-within {
z-index: 2;
}
.form-signin input[type="name"] {
margin-bottom: -1px;
border-bottom-right-radius: 0;
border-bottom-left-radius: 0;
opacity: 0.5;
}
.form-signin input[type="username"] {
margin-bottom: -1px;
/* border-top-left-radius: 0;
border-top-right-radius: 0; */
border-bottom-right-radius: 0;
border-bottom-left-radius: 0;
opacity: 0.5;
}
/* .form-signin input[type="password"] {
margin-bottom: -1px;
border-bottom-right-radius: 0;
border-bottom-left-radius: 0;
border-top-left-radius: 0;
border-top-right-radius: 0;
opacity: 0.5;
} */
.form-signin input[type="password"] {
margin-bottom: 10px;
border-top-right-radius: 0;
```

```
border-top-left-radius: 0;
opacity: 0.5;
}
h1{
color:white;
}
label[for=floatingPassword]{
color:black;
font-weight: 500;
}
.checkbox label{
color:white;
font-weight:100;
}
input[type="name"]:focus,
input[type="password"]:focus,
input[type="phone"]:focus,
input[type="username"]:focus{
border: 1px solid white ;
box-shadow: 0 9px 9px rgb(255, 255, 255) inset, 0 0 11px rgb(255, 255,
255);
outline: 0 none;
}
.btn1 {
display: inline-block;
border-radius: 4px;
background-color: #3d405b;
border: none;
color: #FFFFFF;
text-align: center;
font-size: 17px;
padding: 11px;
width: 220px;
transition: all 0.5s;
cursor: pointer;
margin: 3px;
}
.btn1 span {
cursor: pointer;
display: inline-block;
position: relative;
transition: 0.5s;
}
.btn1 span:after {
content: '»';
position: absolute;
opacity: 0;
top: 0;
right: -15px;
transition: 0.5s;
```

```
}
.btn1:hover span {
padding-right: 15px;
}
.btn1:hover span:after {
opacity: 1;
right: 0;
}
```

Signup.css:

```
/* html,

body {

height: 100%;

} */

body {

/* display: flex;

align-items: center;

padding-top: 40px;

padding-bottom: 40px; */

background-image: url(../images/4.jpg);

background-color: #cccccc;

background-position: center;

background-repeat: no-repeat;

background-size: cover;

}

.form-signin {

width: 100%;

margin: auto;

max-width: 390px;
```

```
padding: 15px;

margin-top: 70px;

backdrop-filter: blur(2px) saturate(180%);

-webkit-backdrop-filter: blur(13px) saturate(180%);

background-color: rgba(17, 25, 40, 0.75);

border-radius: 12px;

border: 1px solid rgba(255, 255, 255, 0.125);

}

.form-floating .form-control{

font-weight:bold;

color: black;

}

.form-signin .checkbox {

font-weight: 400;

}

.form-signin .form-floating{

margin-left: 25px;

margin-right: 25px;

}

.form-signin .form-floating:focus-within {

z-index: 2;

}

.form-signin input[type="email"] {

margin-bottom: -1px;
```

```
border-bottom-right-radius: 0;

border-bottom-left-radius: 0;

opacity: 0.5;

}

.form-signin input[type="username"] {

margin-bottom: -1px;

border-top-left-radius: 0;

border-top-right-radius: 0;

border-bottom-right-radius: 0;

border-bottom-left-radius: 0;

opacity: 0.5;

}

.form-signin input[type="password"] {

margin-bottom: -1px;

border-bottom-right-radius: 0;

border-bottom-left-radius: 0;

border-top-left-radius: 0;

border-top-right-radius: 0;

opacity: 0.5;

}

.form-signin input[type="phone"] {

margin-bottom: 10px;

border-top-right-radius: 0;

border-top-left-radius: 0;
```

```
opacity: 0.5;
}
h1{
color:white;
}
label[for=floatingPassword]{
color:black;
font-weight: 500;
}
.checkbox label{
color:white;
font-weight:100;
}
input[type="email"]:focus,
input[type="password"]:focus,
input[type="phone"]:focus,
input[type="username"]:focus{
border: 1px solid white ;
box-shadow: 0 9px 9px rgb(255, 255, 255) inset, 0 0 11px rgb(255, 255,
255);
outline: 0 none;
}
.btn1 {
display: inline-block;
```

```
border-radius: 6px;
background-color: #3d405b;
border: none;
color: #FFFFFF;
text-align: center;
font-size: 20px;
padding: 8px;
width: 220px;
transition: all 0.5s;
cursor: pointer;
margin: 3px;
}
.btn1 span {
cursor: pointer;
display: inline-block;
position: relative;
transition: 0.5s;
}
.btn1 span:after {
content: '»';
position: absolute;
opacity: 0;
top: 0;
right: -15px;
```

```
transition: 0.5s;
}
.btn1:hover span {
padding-right: 15px;
}
.btn1:hover span:after {
opacity: 1;
right: 0;
}
```

Style.css:

```
*{
margin: 0;
padding: 0;
box-sizing: border-box;
}
img{
width: 100%;
height: 450px;
object-fit: cover;
object-position: 50% 0;
}
```

Database.py:

```
import mysql.connector
import json
```

```
class Database:

@staticmethod

def database_Connection(self):

with open('cred.json') as file:

credentials = json.load(file)

self.mydb = mysql.connector.connect(

host = credentials['host'],

username = credentials['username'],

password = credentials['password'],

database = credentials['db']

)

return self.mydb

def del(self):

self.mycursor.close()

self.mydb.close()

user.py:

from database import Database

class User:

def __init__(self):

self.mydb = Database.database_Connection(self)

self.mycursor = self.mydb.cursor()

# self.username = username

# self.password = password

# self.email = email
# self.phone = phone
def Signup(self,username , password , email , phone):
sql = "INSERT INTO AUTH (EMAIL, USERNAME , PASSWORD , PHONE) VALUES
(%s,%s,%s, %s)"
val = (email, username, password,phone)
self.mycursor.execute(sql, val)
self.mydb.commit()
```

__init__.py:

```
from flask import Flask
def create_app():
app= Flask(__name__)
app.config['SECRET_KEY'] = 'fersdvdfvv'
from .views import views
from .auth import auth
app.register_blueprint(views,url_prefix='/')
app.register_blueprint(auth,url_prefix='/')
return app
```

auth.py:

```
from flask import Blueprint,render_template,request,flash
# from lib.user import User
# import mysql.conne
# import json
# def database_Connection(self):
# with open('cred.json') as file:
```

```
# credentials = json.load(file)

# mydb = mysql.connector.connect(

# host = credentials['host'],

# username = credentials['username'],

# password = credentials['password'],

# database = credentials['db']

# )

# return mydb

# # def del(self):

# # self.mycursor.close()

# # self.mydb.close()

# def Signup(username , password , email , phone):

# sql = "INSERT INTO AUTH (EMAIL, USERNAME , PASSWORD , PHONE) VALUES

(%s,%s,%s, %s)"

# val = (email,username,password, phone)

# mycursor.execute(sql, val)

# mydb.commit()

# #Database Conn

auth = Blueprint('auth',__name__)

@auth.route('/login',methods=['GET','POST'])

def login():

return render_template("login.html")

@auth.route('/logout')

def logout():
```

```
return "<p>logout</p>"

@auth.route('/signup',methods=['GET','POST'])

def signup():

if request.method == 'POST':

email = request.form.get('email')

username = request.form.get('username')

password = request.form.get('password')

phone = request.form.get('phone')

# user = User.query.filter_by(email=email).first()

# if user:

# flash('Email already exists.', category='error')

if len(email) < 4:

flash('Email must be greater than 3 characters.',

category='error')

elif len(username) < 2:

flash('User name must be greater than 1 character.',

category='error')

elif len(password) < 7:

flash('Password must be at least 7 characters.', category='error')

else:

# u = User()

# u.Signup(username,password,email,phone)

flash('Account created!', category='success')

return render_template("signup.html")
```

{} cred.json:

```
{
"host" : "fbd88901-ebdb-4a4f-a32e-
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud:32731",
"username" : "dww40023",
"password" : "kl9VrHdh29NdsjtI",
"db" : "DWW40023"
}
```

Views.py:

```
from flask import Blueprint,render_template
views = Blueprint('views',__name__)
@views.route('/')
def home():
return render_template("home.html")
```

main.py:

```
from web import create_app
app = create_app()
if __name__ == '__main__':
app.run(debug=True)
```

chatbot:

```
<script>
window.watsonAssistantChatOptions = {
integrationID: "7106a37a-cf0c-4e54-a22c-0b49fbe2e8e2", // The ID of this
integration.
region: "au-syd", // The region your integration is hosted in.
serviceInstanceID: "3ea83de1-6380-4510-8ebc-0bab99f8c852", // The ID of
your service instance.
onLoad: function(instance) { instance.render(); }
};
setTimeout(function(){
const t=document.createElement('script');
t.src="https://webchat.
global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') +
"/WatsonAssistantChatEntry.js";
document.head.appendChild(t);
});
</script
```

GITHUB:

https://github.com/IBM-EPBL/IBM-Project-24039-1659936030

Project Demo link:

https://drive.google.com/file/d/1Bqh-XN6brfLTJYQ9Aofvv9X7_vR3xJLK/view?usp=share_link