SMART FASHION RECOMMENDER APPLICATION

IBM – DOCUMENTATION

UNDER THE GUIDANCE OF

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Science and Technology: 2019 – 2023

1. INTRODUCTION

1.1 PROJECT OVERVIEW

Nowadays, fashion applications and e-commerce are growing more and more, and it also has some problems when finding the customer's wanted product in the web applications. Having a chatbot that understands the algorithm of a specific application can be of great aid. We are implementing such a chat bot in a web application, which is fed with the knowledge of the application's algorithm and helps the user completely from finding their needs to processing the payment and initiating delivery. It works as an advanced filter search that can bring the user what they want with the help of pictorial and named representation by getting simple user information and activities. The application also has two main UI interactions: one is the user panel and the other one is the admin panel. Users can interact with the chat bot to search for products, order them from the manufacturer or distributor through chatbot AI, and it can also make payment transactions, track the delivery, and so on. The admin interface enables the user to upload products' details, user details, orders and find how many products have been bought; supervise the stock availability; and interact with the buyer regarding the product reviews.

We have come up with a new innovative solution through which you can directly do your online shopping based on your choice without any search. It can be done by using the chat bot.

In this project you will be working on two modules:
1. Admin and
2. User

Admin:

The role of the admin is to check out the database about the stock and have a track of all the things that the users are purchasing.

User:

The user will login into the website and go through the products available on the website. Instead of navigating to several screens for booking products online, the user can directly talk to Chat bot regarding the products. Get the recommendations based on information provided by the user.

1.2 PURPOSE

a) Using chatbot we can manage user's choices and orders.

b) The chatbot can give recommendations to the users based on their interests.

c) It can promote the best deals and offers on that day.

d) It will store the customer's details and orders in the database.

e) The chatbot will send a notification to customers if the order is confirmed.

f) Chatbots can also help in collecting customer feedback.

2. LITERATURE SURVEY

2.1 EXISTING PROBLEM

1. Fashion item representation

   Traditional recommender systems such as Collaborative Filtering or Content-Based Filtering have difficulties in the fashion domain due to the sparsity of purchase data, or the insufficient detail about the visual appearance of the product in category names. Instead, more recent literature has leveraged models that capture a rich representation of fashion items through product images, text descriptions or customer reviews, or videos which are often learned through surrogate tasks like classification or product retrieval. However, learning product representations from such input data requires large datasets to generalize well across different image (or text) styles, attribute variations, etc. Furthermore, constructing a representation that learns which product features customers take most into account when evaluating fashion products is still an open research problem.

2. Fashion item compatibility

   Training a model that is able to predict if two fashion items ‘go together,’ or directly combine several products into an outfit, is a challenging task. Different item compatibility signals studied in recent literature include co-purchase data, outfits composed by professional fashion designers, or combinations found by analyzing what people wear in social media pictures.

3. Personalization and fit

   The best fashion product to recommend depends on factors such as the location where the outfit will be used, the season or occasion, or the cultural and social background of the customer. A challenging task in fashion recommendation systems is how to discover and integrate these disparate factors. Current research often tackles these tasks by utilizing large-scale social media data.

4. Interpretability and explanation

   Most of the existing fashion recommender systems in the literature focus on improving predictive performance, treating the model as a black box. However, deploying accountable and interpretable systems able to explain their recommendations can foster user loyalty in the long term and improve the shopping experience

5. Discovering trends

   Being able to forecast consumer preferences is valuable for fashion designers and retailers in order to optimize product-to-market fit, logistics and advertising.

2.2 REFERENCES

“A Systematic Study on the Recommender Systems in the E-Commerce”

Electronic commerce or e-commerce includes the service and good exchange through electronic support like the Internet. It plays a crucial role in today’s business and users’ experience. Also, e-commerce platforms produce a vast amount of information. So, Recommender Systems (RSs) are a solution to overcome the information overload problem. They provide personalized recommendations to improve user satisfaction. The present article illustrates a comprehensive and Systematic Literature Review (SLR) regarding the papers published in the field of e-commerce recommender systems. We reviewed the selected papers to identify the gaps and significant issues of the RSs’ traditional methods, which guide the researchers to do future work. So, we provided the traditional techniques, challenges, and open issues concerning traditional methods of the field of review based on the selected papers. This review includes five categories of the RSs’ algorithms, including Content-Based Filtering (CBF), Collaborative Filtering (CF), Demographic-Based Filtering (DBF), hybrid filtering, and Knowledge-Based Filtering (KBF).

2.3 PROBLEM STATEMENT DEFINITION

Problem Statement 1:

The User Needs a way to Find Trending Fashion Clothes so that Here find the All Collections

Problem Statement 2:

The User Needs a way to Find Offers and Discounts so that Here User easy to find Daily Offers

Problem Statement 3:

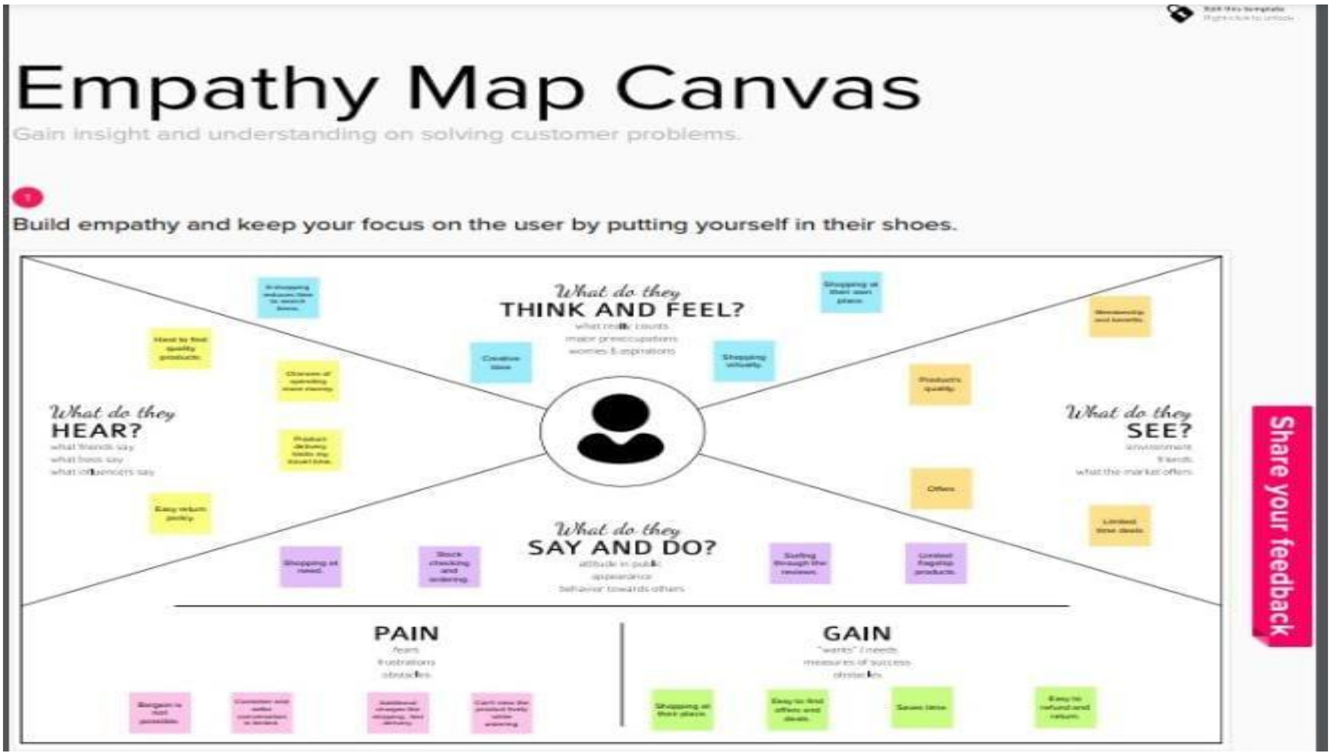
The User Needs a way to Assistant for finding Clothes so that Here User got the Chat Bot assistant

Problem Statement 4:

The Sellers Needs a way to struggling to sells products offline so that Here Sellers will Sell Products via our application.

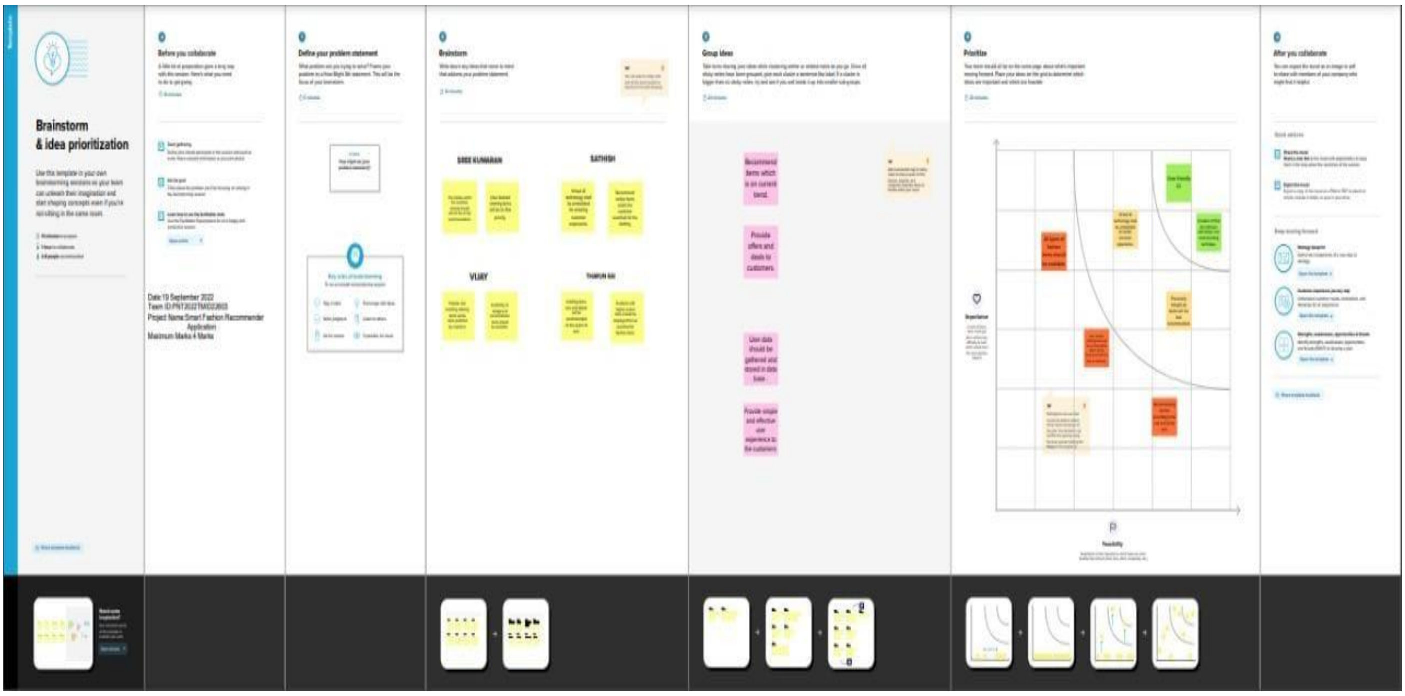
3. IDEATION & PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS



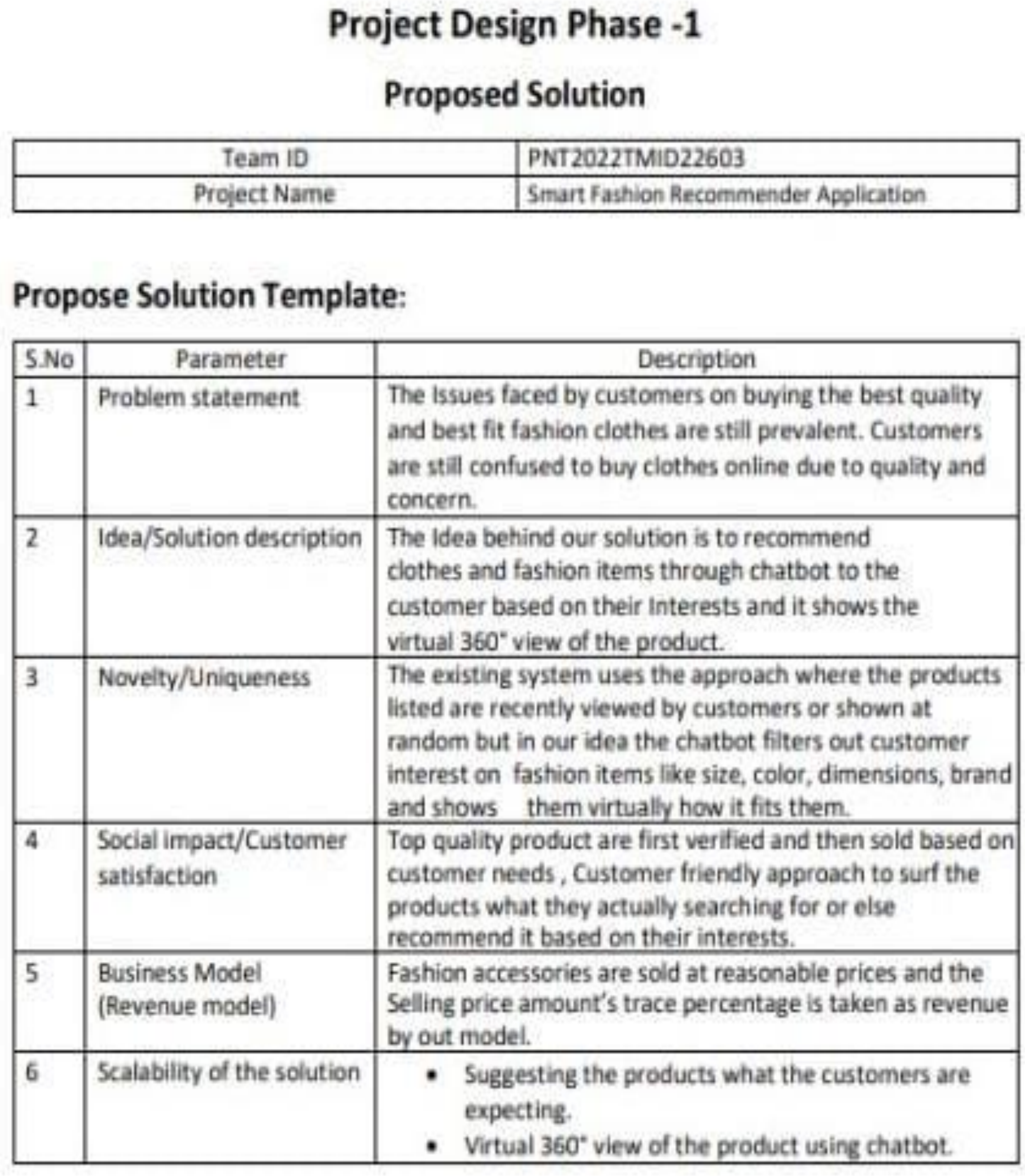
3.2

3.2 IDEATION & BRAINSTORMING


Brainstorm
& idea prioritization
Before you collaborate
Define your problem statement
Brainstorm
Group ideas
Prioritize
After you collaborate
SREE KUMARAN
SATHISH
VIJAY
THARUN SAI
Recommend items which is on current trend.
Provide offers and deals to customers.
User data should be gathered and stored in data base
Provide simple and effective user experience to the customers
Importance
Feasibility

Date 19 September 2022
Team ID PNT2022TMID22803
Project Name Smart Fashion Recommender Application
Maximum Marks 4 Marks

3.3 PROPOSED SOLUTION



Project Design Phase -1

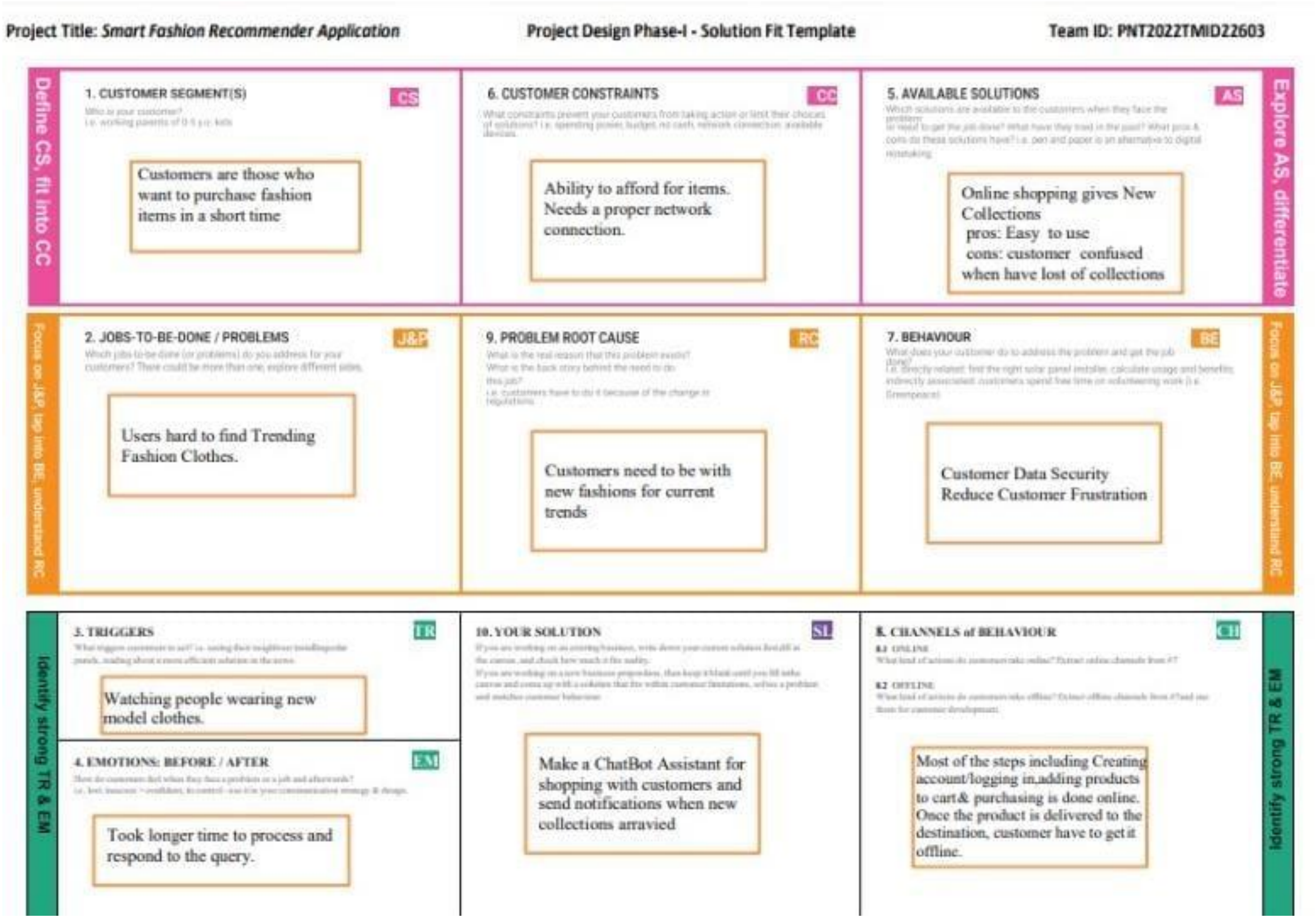
Proposed Solution

Team ID	PNT2022TMID22603
Project Name	Smart Fashion Recommender Application

Propose Solution Template:

S.No	Parameter	Description
1	Problem statement	The Issues faced by customers on buying the best quality and best fit fashion clothes are still prevalent. Customers are still confused to buy clothes online due to quality and concern.
2	Idea/Solution description	The Idea behind our solution is to recommend clothes and fashion items through chatbot to the customer based on their Interests and it shows the virtual 360° view of the product.
3	Novelty/Uniqueness	The existing system uses the approach where the products listed are recently viewed by customers or shown at random but in our idea the chatbot filters out customer interest on fashion items like size, color, dimensions, brand and shows them virtually how it fits them.
4	Social impact/Customer satisfaction	Top quality product are first verified and then sold based on customer needs , Customer friendly approach to surf the products what they actually searching for or else recommend it based on their interests.
5	Business Model (Revenue model)	Fashion accessories are sold at reasonable prices and the Selling price amount's trace percentage is taken as revenue by out model.
6	Scalability of the solution	• Suggesting the products what the customers are expecting. • Virtual 360° view of the product using chatbot.

3.4 PROBLEM SOLUTION FIT



Project Title: *Smart Fashion Recommender Application*

Project Design Phase-I - Solution Fit Template

Team ID: PNT2022TMID22603

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

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

Customers are those who want to purchase fashion items in a short time

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.

Ability to afford for items. Needs a proper 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)

Customer Data Security
Reduce Customer Frustration

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.

Watching people wearing new model clothes.

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.

Took longer time to process and respond to the query.

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.

Most of the steps including Creating account/logging in,adding products to cart& purchasing is done online. Once the product is delivered to the destination, customer have to get it offline.

Identify strong TR & EM

4. REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENTS

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

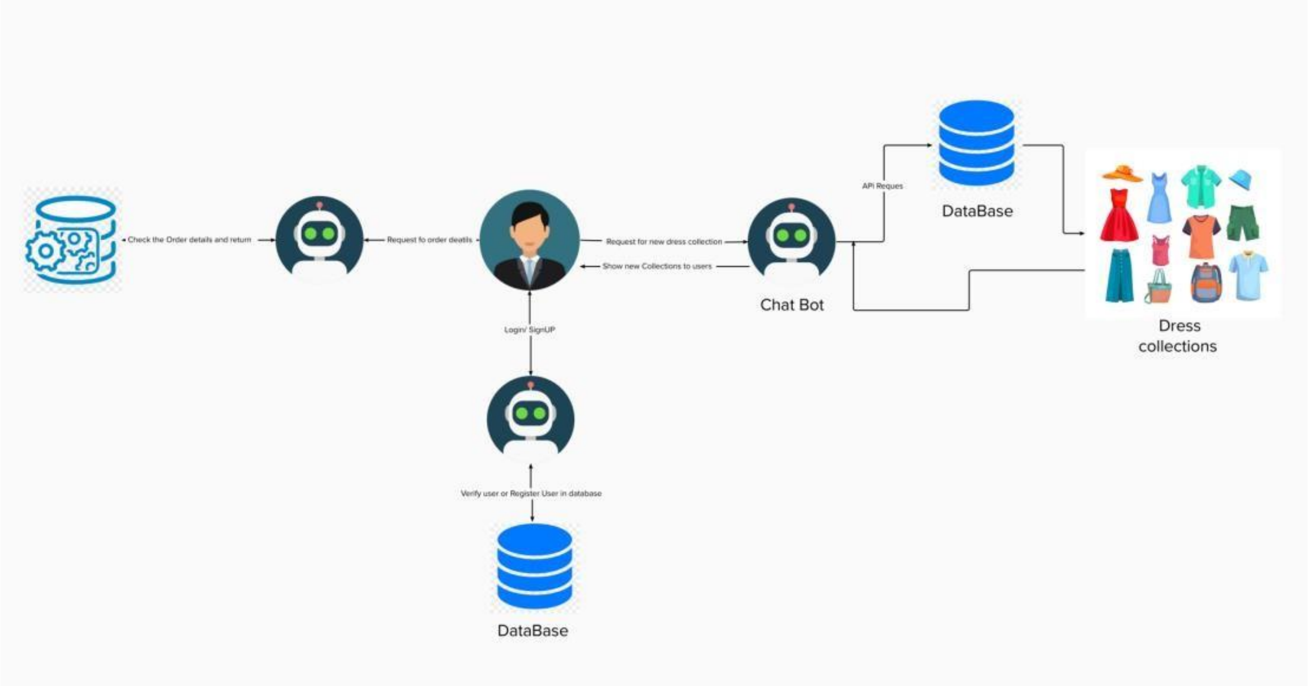
Following are the non-functional requirements of the proposed solution.

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**	It’s easy to scalable size of users and products.

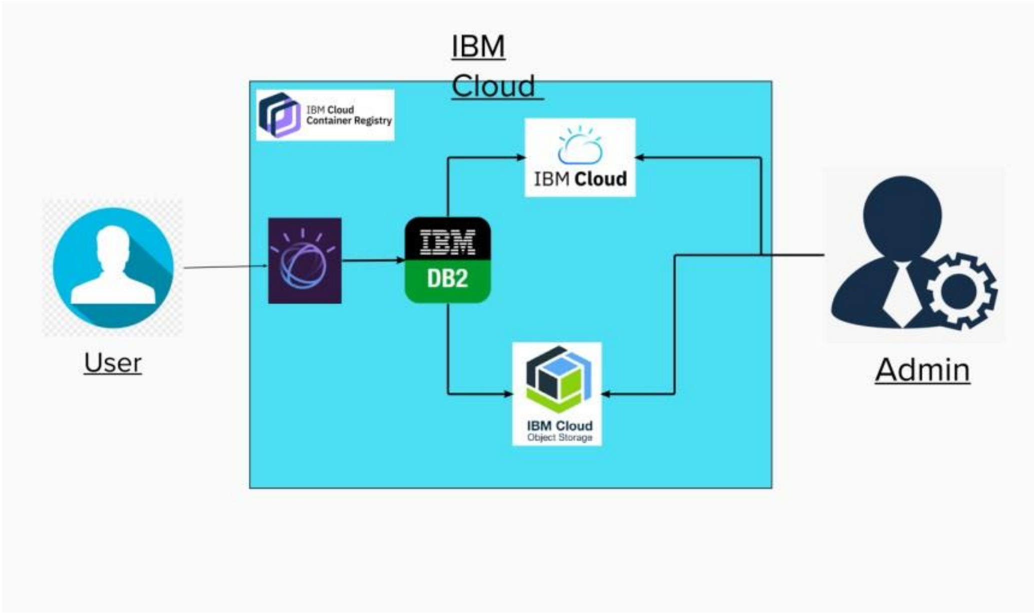
5. PROJECT DESIGN

5.1 DATA FLOW DIAGRAMS

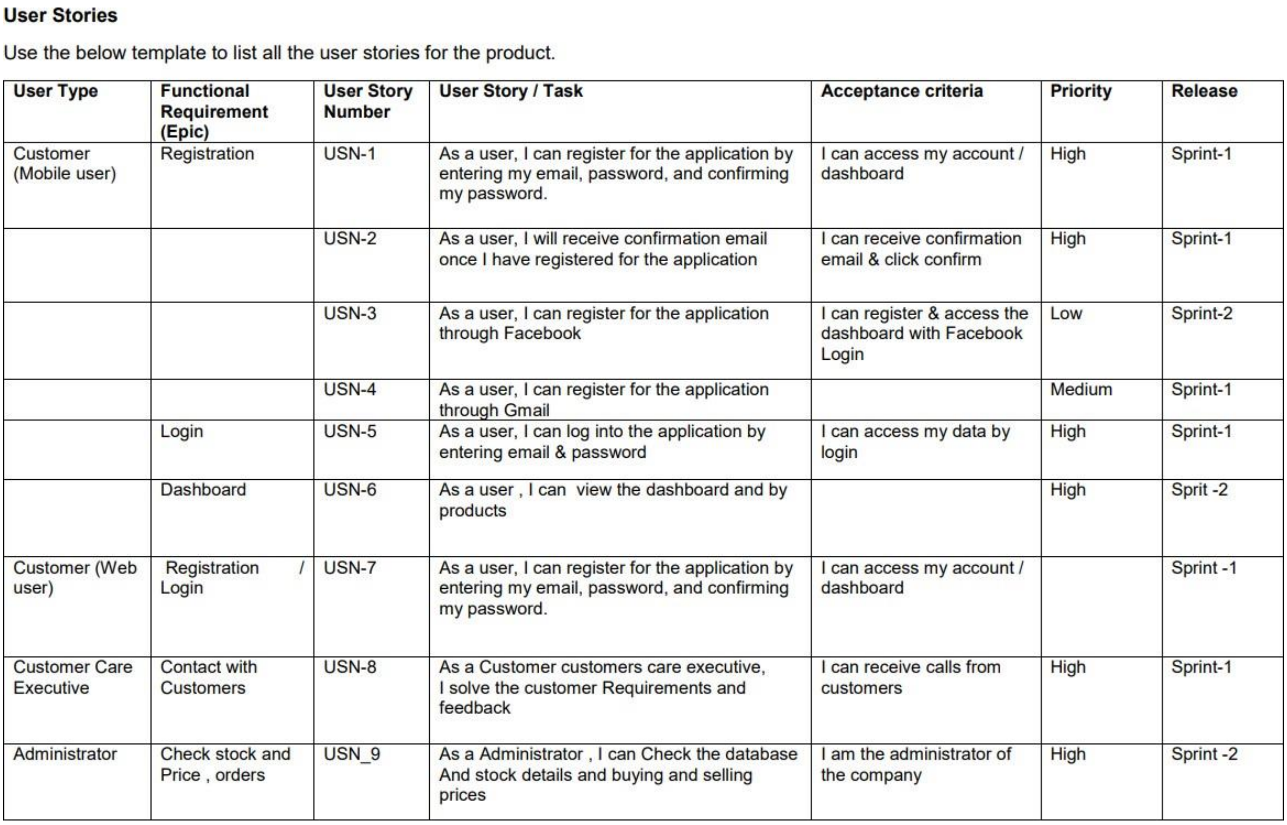
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.


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



5.3 USER STORIES



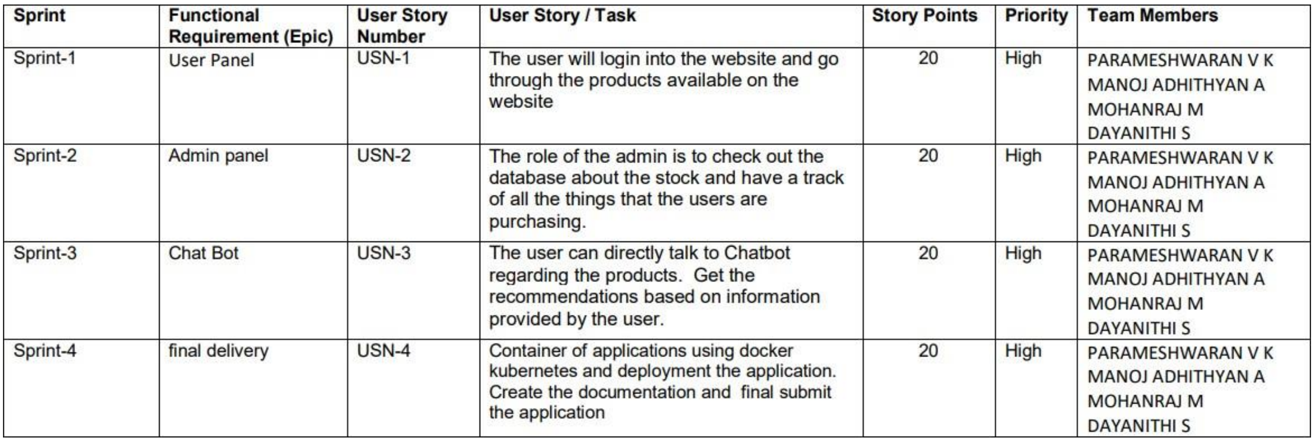
User Stories

Use the below template to list all the user stories for the product.

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 email once I have registered for the application	I can receive confirmation email & 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 Facebook Login	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 by login	High	Sprint-1
	Dashboard	USN-6	As a user , I can view the dashboard and by products		High	Sprit -2
Customer (Web user)	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 PLANNING & ESTIMATION



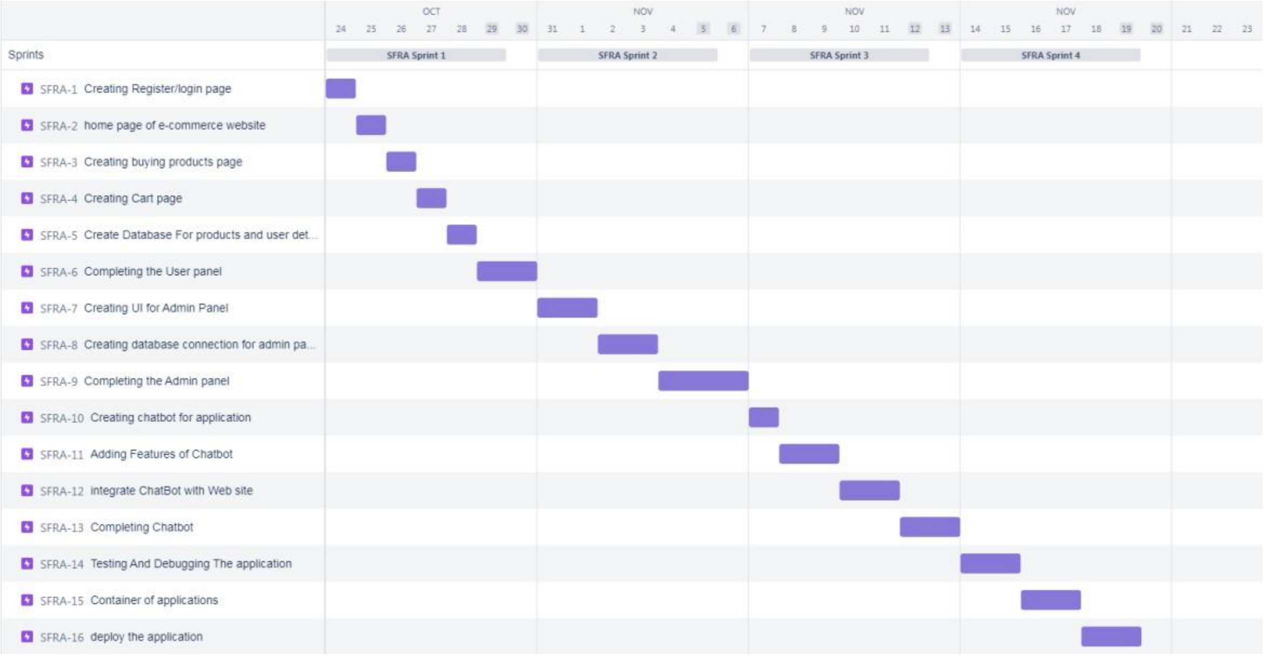
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	User Panel	USN-1	The user will login into the website and go through the products available on the website	20	High	PARAMESHWARAN V K MANOJ ADHITHYAN A MOHANRAJ M DAYANITHI S
Sprint-2	Admin panel	USN-2	The role of the admin is to check out the database about the stock and have a track of all the things that the users are purchasing.	20	High	PARAMESHWARAN V K MANOJ ADHITHYAN A MOHANRAJ M DAYANITHI S
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	PARAMESHWARAN V K MANOJ ADHITHYAN A MOHANRAJ M DAYANITHI S
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	PARAMESHWARAN V K MANOJ ADHITHYAN A MOHANRAJ M DAYANITHI S

6.2 SPRINT DELIEVERY SCHEDULE

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

6.3 REPORTS FROM JIRA

Burndown Chart:



Sprints

SFRA-1 Creating Register/login page

SFRA-2 home page of e-commerce website

SFRA-3 Creating buying products page

SFRA-4 Creating Cart page

SFRA-5 Create Database For products and user det...

SFRA-6 Completing the User panel

SFRA-7 Creating UI for Admin Panel

SFRA-8 Creating database connection for admin pa...

SFRA-9 Completing the Admin panel

SFRA-10 Creating chatbot for application

SFRA-11 Adding Features of Chatbot

SFRA-12 integrate ChatBot with Web site

SFRA-13 Completing Chatbot

SFRA-14 Testing And Debugging The application

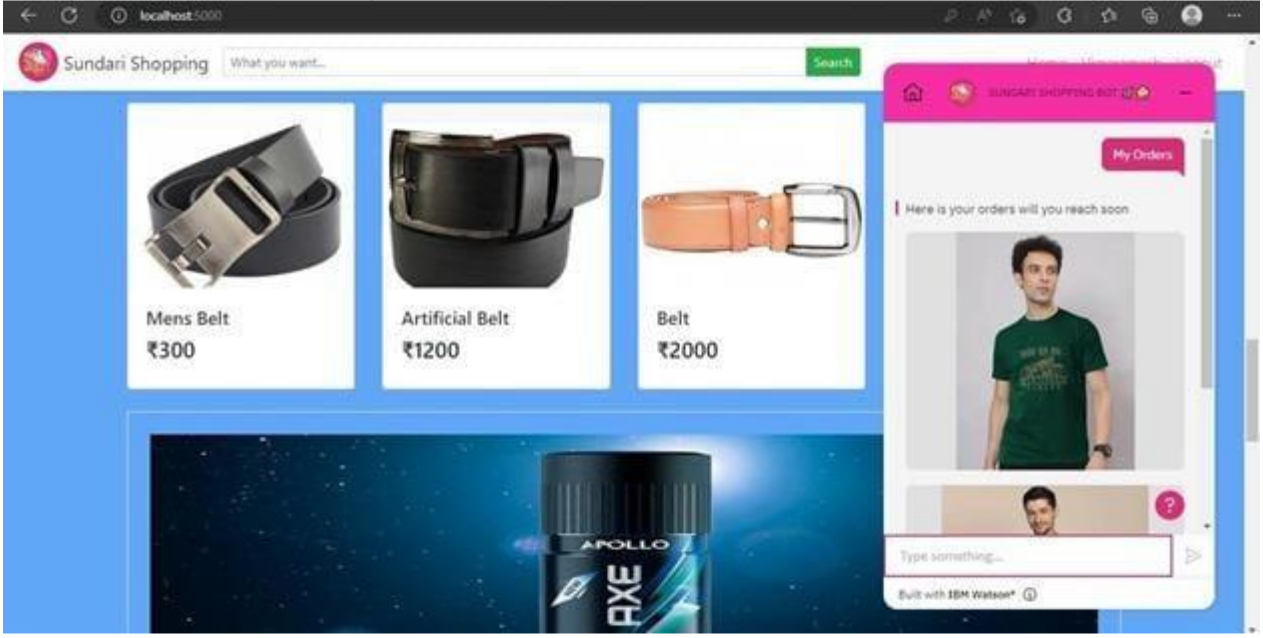
SFRA-15 Container of applications

SFRA-16 deploy the application

7. CODING & SOLUTIONING

7.1 FEATURE 1

Using chat bot we can manage user's choices and orders.

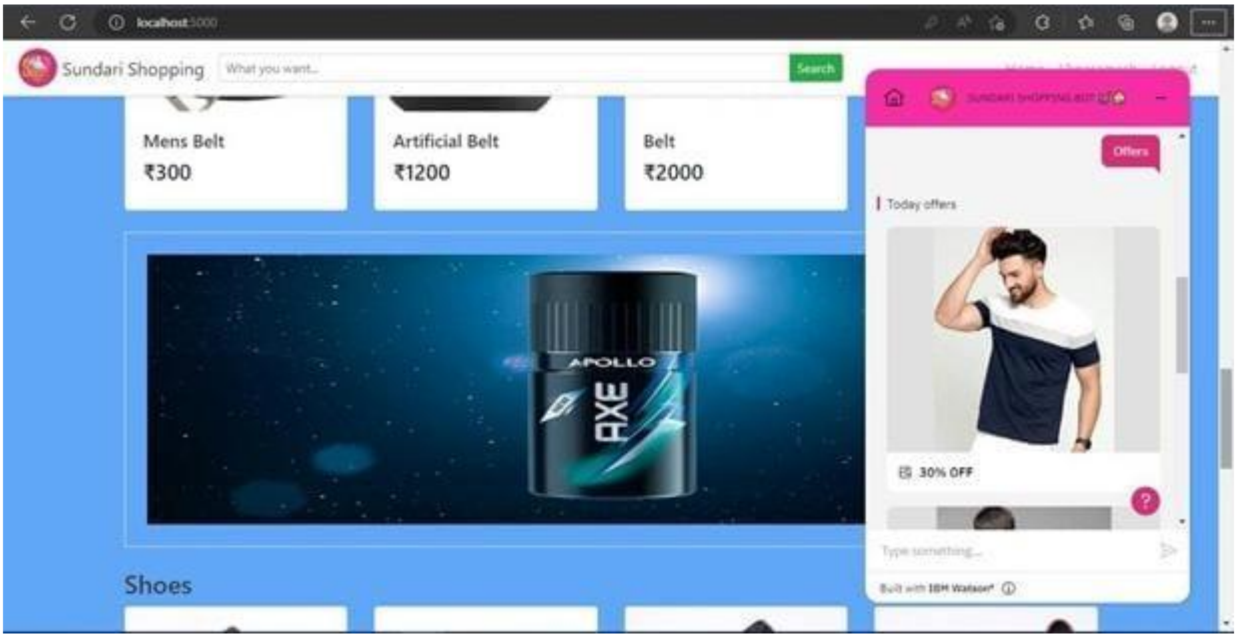


My Orders

Here is your orders will you reach soon

7.2 FEATURE 2

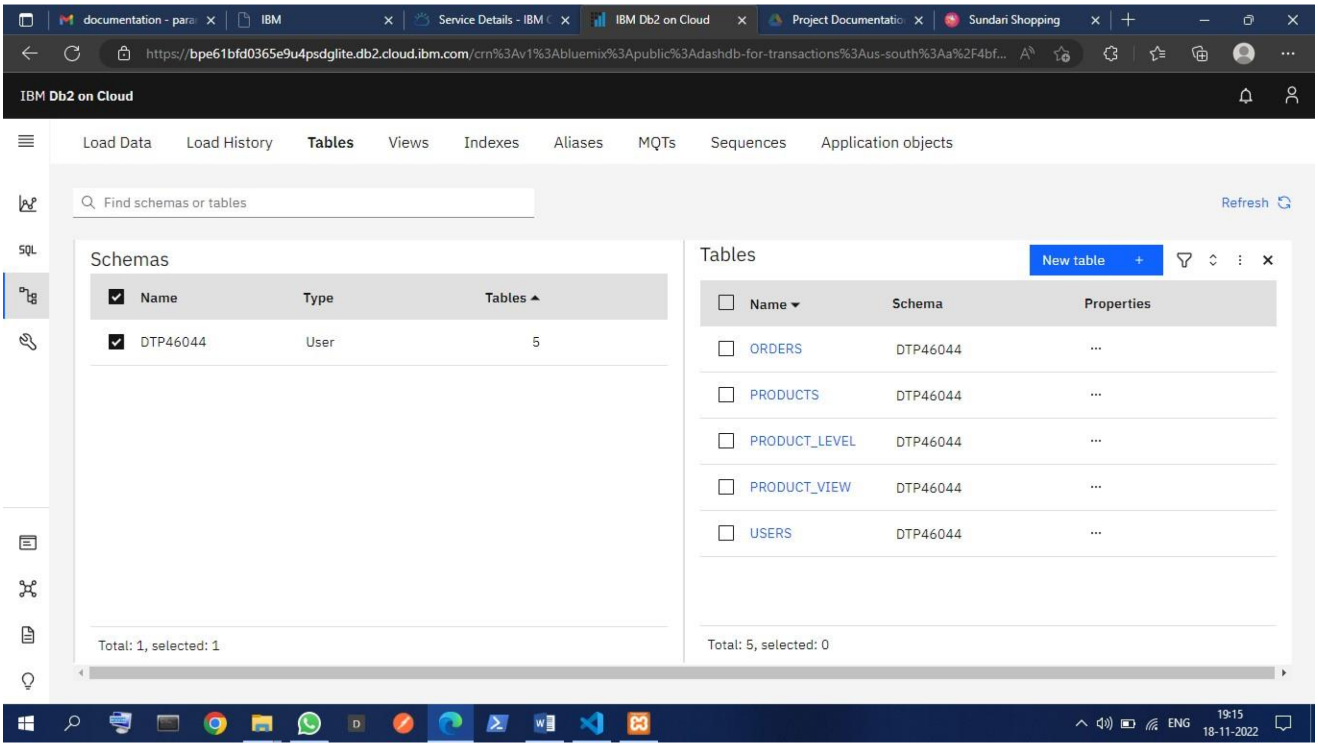
Chat Bot promote the best deals and offers on that day.



Offers

Today offers

7.3 DATABASE SCHEMA



Schemas

☑	Name	Type	Tables ▲
☑	DTP46044	User	5

Total: 1, selected: 1

Tables

□	Name ▾	Schema	Properties
□	ORDERS	DTP46044	···
□	PRODUCTS	DTP46044	···
□	PRODUCT_LEVEL	DTP46044	···
□	PRODUCT_VIEW	DTP46044	···
□	USERS	DTP46044	···

Total: 5, selected: 0

8. TESTING

8.1 TEST CASES

This report shows the number of test cases that have passed, failed, and untested

Section	Total Cases	Not Tested	Fail	Pass
Login	5	0	0	5
Register	7	0	0	7
Home Page	2	0	0	2
Order page	3	0	0	3
Order products	9	0	0	9
Final Report Output	4	0	0	4
Version Control	2	0	0	2

8.2 USER ACCEPTANCE TESTING

Purpose of Document

The purpose of this document is to briefly explain the test coverage and open issues of the Smart Fashion Recommender Application project at the time of the release to User Acceptance Testing (UAT).

Defect Analysis

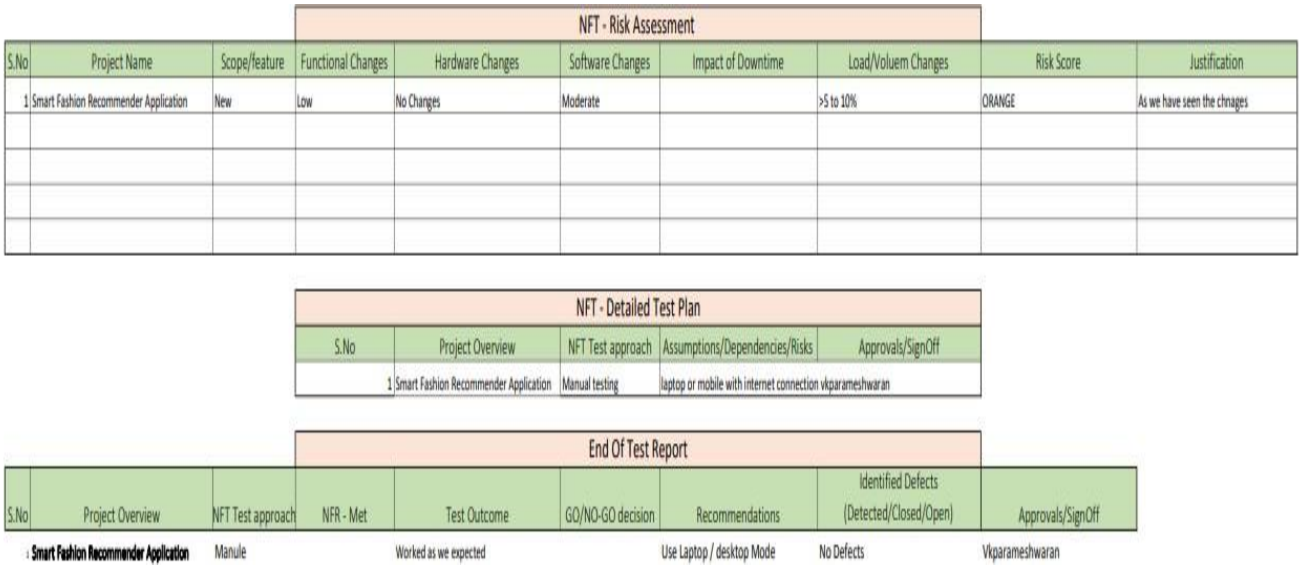
This report shows the number of resolved or closed bugs at each severity level, and how they were resolved

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	5	5	2	3	21
Duplicate	1	0	3	0	4
External	2	3	0	1	6
Fixed	11	2	4	20	37
Not Reproduced	0	0	1	0	1
Skipped	0	0	1	1	2
Won't Fix	0	5	2	1	8
Totals	24	14	13	26	77

9. RESULT

9.1 PERFORMANCE METRICS

Project team shall fill the following information in model performance testing.



			NFT - Risk Assessment						
S.No	Project Name	Scope/feature	Functional Changes	Hardware Changes	Software Changes	Impact of Downtime	Load/Voluem Changes	Risk Score	Justification
1	Smart Fashion Recommender Application	New	Low	No Changes	Moderate		>5 to 10%	ORANGE	As we have seen the chnages

NFT - Detailed Test Plan				
S.No	Project Overview	NFT Test approach	Assumptions/Dependencies/Risks	Approvals/SignOff
1	Smart Fashion Recommender Application	Manual testing	laptop or mobile with internet connection	vkparameshwaran

			End Of Test Report					
S.No	Project Overview	NFT Test approach	NFR - Met	Test Outcome	GO/NO-GO decision	Recommendations	Identified Defects (Detected/Closed/Open)	Approvals/SignOff
1	Smart Fashion Recommender Application	Manule		Worked as we expected		Use Laptop / desktop Mode	No Defects	Vkparameshwaran

10. ADVANTAGES & DISADVANTAGES

ADVANTAGES:

- Its helps to user Shopping with Assistant
- Its helps to user manage there order list
- Its helps to user shopping at home

DISADVANTAGES:

- User have fear about online shopping
- User have sometimes received wrong items
- User have fear about online payment

11. CONCLUSION

Recommendation systems have the potential to explore new opportunities for retailers by enabling them to provide customized recommendations to consumers based on information retrieved from the Internet. They help consumers to instantly find the products and services that closely match with their choices. Moreover, different stat-of-the-art algorithms have been developed to recommend products based on users' interactions with their social groups. Therefore, research on embedding social media images within fashion recommendation systems has gained huge popularity in recent times. This paper presented a review of the fashion recommendation systems, algorithmic models and filtering techniques based on the academic articles related to this topic. The technical aspects, strengths and weaknesses of the filtering techniques have been discussed elaborately, which will help future researchers gain an in-depth understanding of fashion recommender systems. However, the proposed prototypes should be tested in commercial applications to understand their feasibility and accuracy in the retail market, because inaccurate recommendations can produce a negative impact on a customer. Moreover, future research should concentrate on including time series analysis and accurate categorization of product images based on the variation in color, trend and clothing style in order to develop an effective recommendation system. The proposed model will follow brand specific personalization campaigns and hence it will ensure highly curated and tailored offerings for users. Hence, this research will be highly beneficial for researchers interested in using augmented and virtual reality features to develop recommendation systems.

12. FUTURE SCOPE

There has been significant progress recently in fashion recommendation system research, which will benefit both consumers and retailers soon. The use of product and user images, textual content, demographic history, and cultural information is crucial in developing recommendation frameworks. Product attributes and clothing style matching are common features of collaborative and content-based filtering techniques. Researchers can develop more sophisticated hyper personalized filtering techniques considering the correlation between consumers' clothing styles and personalities. The methods based on employing a scoring system for quantifying each product attribute will be helpful in increasing the precision of the model. The use of virtual sales advisers in an online shopping portal would provide consumers with a real time offline shopping experience. Retailers can collect the data on users' purchase history and product reviews from the recommendation system and subsequently use them in style prediction for the upcoming seasons. The integration of different domain information strengthens the deep learning paradigm by enabling the detection of design component variation, which improves the performance of the recommendation system in the long run. Deep learning approaches should be more frequently used to quickly explore fashion items from different online databases to provide prompt recommendations to users or consumers.

13. APPENDIX

13.1 SOURCE CODE

App.py

```
from flask import Flask, render_template, flash, redirect, url_for, session, request, logging

from sqlalchemy import sqlalchemy

from wtforms import Form, StringField, TextAreaField, PasswordField, validators, SelectField

from passlib.hash import sha256_crypt

from functools import wraps

from flask_uploads import UploadSet, configure_uploads, IMAGES

import timeit

import datetime

from flask_mail import Mail, Message

import os

from wtforms import EmailField

import sendgrid

import os

db = sqlalchemy.create_engine('ibm_db_sa://dtp46044:95soX0sZGhb4ToUj@fbd88901-ebdb-4a4f-a32e-9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud:50000/bludb')

bcrypt =Bcrypt(app)

metadata = MetaData()

app = Flask(_name_)

app.secret_key = os.urandom(24)

app.config['UPLOADED_PHOTOS_DEST'] = 'static/image/product'

photos = UploadSet('photos', IMAGES)

configure_uploads(app, photos)

db.init_app(app)
```

```
def sendemail():
    sg = sendgrid.SendGridAPIClient(api_key=os.environ.get('SENDGRID_API_KEY'))
    data = {
    "personalizations": [
        {
        "to": [
            {
            "email": "sundariShopping@gmail.com"
            }
        ],
        "subject": "Sundari Shopping.Thankyou for purchasing"
        }
    ],
    "from": {
        "email": "Customer@gmail.com"
    },
    "content": [w
        {wwwwwwwwwww
        "type": "text/plain",
        "value": "Oder successfull your order arive within 5 working days"
        }
    ]
    }
    response = sg.client.mail.send.post(request_body=data)
    print(response.status_code)
    print(response.body)
    print(response.headers)
def is_logged_in(f):
    @wraps(f)
    def wrap(*args, **kwargs):
        if 'logged_in' in session:
            return f(*args, *kwargs)
        else:
            return redirect(url_for('login'))
    return wrap
def not_logged_in(f):
    @wraps(f)
    def wrap(*args, **kwargs):
        if 'logged_in' in session:
            return redirect(url_for('index'))
        else:
            return f(*args, *kwargs)
    return wrap
def is_admin_logged_in(f):
    @wraps(f)
    def wrap(*args, **kwargs):
        if 'admin_logged_in' in session:
            return f(*args, *kwargs)
        else:
            return redirect(url_for('admin_login'))
return wrap

def not_admin_logged_in(f):

    @wraps(f)

    def wrap(*args, **kwargs):

        if 'admin_logged_in' in session:

            return redirect(url_for('admin'))

        else:

            return f(*args, *kwargs)

    return wrap

def wrappers(func, *args, **kwargs):

    def wrapped():

        return func(*args, **kwargs)

    return wrapped

def content_based_filtering(product_id):

    cur = db.connection.cursor()

    cur.execute("SELECT * FROM products WHERE id=%s", (product_id,)) # getting id row

    data = cur.fetchone()  # get row info

    data_cat = data['category']  # get id category ex shirt

    print('Showing result for Product Id: ' + product_id)

    category_matched = cur.execute("SELECT * FROM products WHERE category=%s", (data_cat,)) # get
all shirt category

    print('Total product matched: ' + str(category_matched))

    cat_product = cur.fetchall() # get all row

    cur.execute("SELECT * FROM product_level WHERE product_id=%s", (product_id,)) # id level info

    id_level = cur.fetchone()

    recommend_id = []
    cate_level = ['v_shape', 'polo', 'clean_text', 'design', 'leather', 'color', 'formal', 'converse', 'loafer', 'hook', 'chain']
    for product_f in cat_product:
        cur.execute("SELECT * FROM product_level WHERE product_id=%s", (product_f['id'],))
        f_level = cur.fetchone()
        match_score = 0
        if f_level['product_id'] != int(product_id):
            for cat_level in cate_level:
                if f_level[cat_level] == id_level[cat_level]:
                    match_score += 1
            if match_score == 11:
                recommend_id.append(f_level['product_id'])
    print('Total recommendation found: ' + str(recommend_id))
    if recommend_id:
        cur = db.connection.cursor()
        placeholders = ','.join((str(n) for n in recommend_id))
        query = 'SELECT * FROM products WHERE id IN (%s)' % placeholders
        cur.execute(query)
        recommend_list = cur.fetchall()
        return recommend_list, recommend_id, category_matched, product_id
    else:
        return ''
@app.route('/')
@is_logged_in
def index():
    form = OrderForm(request.form)
    cur = db.connection.cursor()
    values = 'tshirt'
    cur.execute("SELECT * FROM products WHERE category=%s ORDER BY RAND() LIMIT 4", (values,))
    tshirt = cur.fetchall()
    values = 'wallet'
    cur.execute("SELECT * FROM products WHERE category=%s ORDER BY RAND() LIMIT 4", (values,))
    wallet = cur.fetchall()
    values = 'belt'
    cur.execute("SELECT * FROM products WHERE category=%s ORDER BY RAND() LIMIT 4", (values,))
    belt = cur.fetchall()
    values = 'shoes'
    cur.execute("SELECT * FROM products WHERE category=%s ORDER BY RAND() LIMIT 4", (values,))
    shoes = cur.fetchall()
    cur.close()
    return render_template('home.html', tshirt=tshirt, wallet=wallet, belt=belt, shoes=shoes, form=form)
class LoginForm(Form):
    username = StringField('', [validators.length(min=1)],
                           render_kw={'autofocus': True, 'placeholder': 'Username'})
    password = PasswordField('', [validators.length(min=3)],
                             render_kw={'placeholder': 'Password'})
@app.route('/login', methods=['GET', 'POST'])
@not_logged_in
def login():
    form = LoginForm(request.form)
    if request.method == 'POST' and form.validate():
```

```
    username = form.username.data
    password_candidate = form.password.data
    cur = db.connection.cursor()
    result = cur.execute("SELECT * FROM users WHERE username=%s", [username])
    if result > 0:
        data = cur.fetchone()
        password = data['password']
        uid = data['id']
        name = data['name']
        if sha256_crypt.verify(password_candidate, password):
            session['logged_in'] = True
            session['uid'] = uid
            session['s_name'] = name
            x = '1'
            cur.execute("UPDATE users SET online=%s WHERE id=%s", (x, uid))
            return redirect(url_for('index'))
        else:
            flash('Incorrect password', 'danger')
            return render_template('login.html', form=form)
    else:
        flash('Username not found', 'danger')
        cur.close()
        return render_template('login.html', form=form)
return render_template('login.html', form=form)
```

```
@app.route('/out')
def logout():
    if 'uid' in session:
        cur = db.connection.cursor()
        uid = session['uid']
        x = '0'
        cur.execute("UPDATE users SET online=%s WHERE id=%s", (x, uid))
        session.clear()
        flash('You are logged out', 'success')
        return redirect(url_for('index'))
    return redirect(url_for('login'))
class RegisterForm(Form):
    name = StringField('', [validators.length(min=3, max=50)],
                       render_kw={'autofocus': True, 'placeholder': 'Full Name'})
    username = StringField('', [validators.length(min=3, max=25)], render_kw={'placeholder': 'Username'})
    email = EmailField('', [validators.DataRequired(), validators.Email(), validators.length(min=4, max=25)],
                       render_kw={'placeholder': 'Email'})
    password = PasswordField('', [validators.length(min=3)],
                             render_kw={'placeholder': 'Password'})
    mobile = StringField('', [validators.length(min=11, max=15)], render_kw={'placeholder': 'Mobile'})
@app.route('/register', methods=['GET', 'POST'])
@not_logged_in
def register():
    form = RegisterForm(request.form)
    if request.method == 'POST' and form.validate():
        name = form.name.data
        email = form.email.data
        username = form.username.data
        password = sha256_crypt.encrypt(str(form.password.data))
        mobile = form.mobile.data
        cur = db.connection.cursor()
        cur.execute("INSERT INTO users(name, email, username, password, mobile) VALUES(%s, %s, %s, %s, %s)",
                    (name, email, username, password, mobile))
        db.connection.commit()
        cur.close()
        flash('You are now registered and can login', 'success')
        return redirect(url_for('index'))
    return render_template('register.html', form=form)
class MessageForm(Form):  # Create Message Form
    body = StringField('', [validators.length(min=1)], render_kw={'autofocus': True})
@app.route('/chatting/<string:id>', methods=['GET', 'POST'])
def chatting(id):
    if 'uid' in session:
        form = MessageForm(request.form)
        cur = db.connection.cursor()
        get_result = cur.execute("SELECT * FROM users WHERE id=%s", [id])
        l_data = cur.fetchone()
        if get_result > 0:
            session['name'] = l_data['name']
            uid = session['uid']
            session['lid'] = id
            if request.method == 'POST' and form.validate():
                txt_body = form.body.data
            cur = db.connection.cursor()
                cur.execute("INSERT INTO messages(body, msg_by, msg_to) VALUES(%s, %s, %s)",
                            (txt_body, id, uid))
                db.connection.commit()
            cur.execute("SELECT * FROM users")
            users = cur.fetchall()
            cur.close()
            return render_template('chat_room.html', users=users, form=form)
        else:
            flash('No permission!', 'danger')
            return redirect(url_for('index'))
    else:
        return redirect(url_for('login'))
@app.route('/chats', methods=['GET', 'POST'])
def chats():
    if 'lid' in session:
        id = session['lid']
        uid = session['uid']
        cur = db.connection.cursor()
        cur.execute("SELECT * FROM messages WHERE (msg_by=%s AND msg_to=%s) OR (msg_by=%s AND
msg_to=%s) "
                    "ORDER BY id ASC", (id, uid, uid, id))
        chats = cur.fetchall()
        cur.close()
        return render_template('chats.html', chats=chats, )
    return redirect(url_for('login'))
class OrderForm(Form):  # Create Order Form
    name = StringField('', [validators.length(min=1), validators.DataRequired()],
                      render_kw={'autofocus': True, 'placeholder': 'Full Name'})
    mobile_num = StringField('', [validators.length(min=1), validators.DataRequired()],
                            render_kw={'autofocus': True, 'placeholder': 'Mobile'})
    quantity = SelectField('', [validators.DataRequired()],
                          choices=[('1', '1'), ('2', '2'), ('3', '3'), ('4', '4'), ('5', '5')])
    order_place = StringField('', [validators.length(min=1), validators.DataRequired()],
                             render_kw={'placeholder': 'Order Place'})
@app.route('/tshirt', methods=['GET', 'POST'])
def tshirt():
    form = OrderForm(request.form)
   cur = db.connection.cursor()
   values = 'tshirt'
    cur.execute("SELECT * FROM products WHERE category=%s ORDER BY id ASC", (values,))
    products = cur.fetchall()
    cur.close()
    if request.method == 'POST' and form.validate():
        name = form.name.data
        mobile = form.mobile_num.data
        order_place = form.order_place.data
        quantity = form.quantity.data
        pid = request.args['order']

        now = datetime.datetime.now()

        week = datetime.timedelta(days=7)

        delivery_date = now + week

        now_time = delivery_date.strftime("%y-%m-%d %H:%M:%S")

        curs = db.connection.cursor()

        if 'uid' in session:

            uid = session['uid']

            curs.execute("INSERT INTO orders(uid, pid, ofname, mobile, oplace, quantity, ddate) "

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

                         (uid, pid, name, mobile, order_place, quantity, now_time))

        else:

            curs.execute("INSERT INTO orders(pid, ofname, mobile, oplace, quantity, ddate) "

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

                         (pid, name, mobile, order_place, quantity, now_time))

        db.connection.commit()

        cur.close()

        sendemail()

        flash('Order successful', 'success')

        return render_template('tshirt.html', tshirt=products, form=form)

    if 'view' in request.args:

        product_id = request.args['view']

        curso = db.connection.cursor()

        curso.execute("SELECT * FROM products WHERE id=%s", (product_id,))

        product = curso.fetchall()
```

```
        x = content_based_filtering(product_id)
        wrappered = wrappers(content_based_filtering, product_id)
        execution_time = timeit.timeit(wrappered, number=0)
        if 'uid' in session:
            uid = session['uid']
            cur = db.connection.cursor()
            cur.execute("SELECT * FROM product_view WHERE user_id=%s AND product_id=%s", (uid,
product_id))
            result = cur.fetchall()
            if result:
                now = datetime.datetime.now()
                now_time = now.strftime("%y-%m-%d %H:%M:%S")
                cur.execute("UPDATE product_view SET date=%s WHERE user_id=%s AND product_id=%s",
                            (now_time, uid, product_id))
            else:
                cur.execute("INSERT INTO product_view(user_id, product_id) VALUES(%s, %s)", (uid,
product_id))
                db.connection.commit()
        return render_template('view_product.html', x=x, tshirts=product)
    elif 'order' in request.args:
        product_id = request.args['order']
        curso = db.connection.cursor()
        curso.execute("SELECT * FROM products WHERE id=%s", (product_id,))
        product = curso.fetchall()
        x = content_based_filtering(product_id)
        return render_template('order_product.html', x=x, tshirts=product, form=form)
    return render_template('tshirt.html', tshirt=products, form=form)

@app.route('/wallet', methods=['GET', 'POST'])

def wallet():

    form = OrderForm(request.form)

    cur = db.connection.cursor()

       values = 'wallet'

    cur.execute("SELECT * FROM products WHERE category=%s ORDER BY id ASC", (values,))

    products = cur.fetchall()

   cur.close()

if request.method == 'POST' and form.validate():

        name = form.name.data

        mobile = form.mobile_num.data

        order_place = form.order_place.data

        quantity = form.quantity.data

        pid = request.args['order']

        now = datetime.datetime.now()

        week = datetime.timedelta(days=7)

        delivery_date = now + week

        now_time = delivery_date.strftime("%y-%m-%d %H:%M:%S")

        curs = db.connection.cursor()

        if 'uid' in session:

            uid = session['uid']

            curs.execute("INSERT INTO orders(uid, pid, ofname, mobile, oplace, quantity, ddate) "

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

                        (uid, pid, name, mobile, order_place, quantity, now_time))
        else:
            curs.execute("INSERT INTO orders(pid, ofname, mobile, oplace, quantity, ddate) "
                        "VALUES(%s, %s, %s, %s, %s, %s)",
                        (pid, name, mobile, order_place, quantity, now_time))
        db.connection.commit()
        cur.close()
        sendemail()
        flash('Order successful', 'success')
        return render_template('wallet.html', wallet=products, form=form)
    if 'view' in request.args:
        q = request.args['view']
        product_id = q
        x = content_based_filtering(product_id)
        curso = db.connection.cursor()
        curso.execute("SELECT * FROM products WHERE id=%s", (q,))
        products = curso.fetchall()
        return render_template('view_product.html', x=x, tshirts=products)
    elif 'order' in request.args:
        product_id = request.args['order']
        curso = db.connection.cursor()
        curso.execute("SELECT * FROM products WHERE id=%s", (product_id,))
        product = curso.fetchall()
        x = content_based_filtering(product_id)
        return render_template('order_product.html', x=x, tshirts=product, form=form)
    return render_template('wallet.html', wallet=products, form=form)
```

```
@app.route('/belt', methods=['GET', 'POST'])
def belt():
    form = OrderForm(request.form)
   cur = db.connection.cursor()
   values = 'belt'
    cur.execute("SELECT * FROM products WHERE category=%s ORDER BY id ASC", (values,))
    products = cur.fetchall()
cur.close()
    if request.method == 'POST' and form.validate():
        name = form.name.data
        mobile = form.mobile_num.data
        order_place = form.order_place.data
        quantity = form.quantity.data
        pid = request.args['order']
        now = datetime.datetime.now()
        week = datetime.timedelta(days=7)
        delivery_date = now + week
        now_time = delivery_date.strftime("%y-%m-%d %H:%M:%S")
        curs = db.connection.cursor()
        if 'uid' in session:
            uid = session['uid']
            curs.execute("INSERT INTO orders(uid, pid, ofname, mobile, oplace, quantity, ddate) "
                        "VALUES(%s, %s, %s, %s, %s, %s, %s)",
                        (uid, pid, name, mobile, order_place, quantity, now_time))
    else:
        curs.execute("INSERT INTO orders(pid, ofname, mobile, oplace, quantity, ddate) "
                     "VALUES(%s, %s, %s, %s, %s, %s)",
                     (pid, name, mobile, order_place, quantity, now_time))
    db.connection.commit()
    cur.close()
    sendemail()
    flash('Order successful', 'success')
    return render_template('belt.html', belt=products, form=form)
if 'view' in request.args:
    q = request.args['view']
    product_id = q
    x = content_based_filtering(product_id)
    curso = db.connection.cursor()
    curso.execute("SELECT * FROM products WHERE id=%s", (q,))
    products = curso.fetchall()
    return render_template('view_product.html', x=x, tshirts=products)
elif 'order' in request.args:
    product_id = request.args['order']
    curso = db.connection.cursor()
    curso.execute("SELECT * FROM products WHERE id=%s", (product_id,))
    product = curso.fetchall()
    x = content_based_filtering(product_id)
    return render_template('order_product.html', x=x, tshirts=product, form=form)
return render_template('belt.html', belt=products, form=form)
```

```
@app.route('/shoes', methods=['GET', 'POST'])
def shoes():
    form = OrderForm(request.form)
    cur = db.connection.cursor()
    values = 'shoes'
    cur.execute("SELECT * FROM products WHERE category=%s ORDER BY id ASC", (values,))
    products = cur.fetchall()
    cur.close()
    if request.method == 'POST' and form.validate():
        name = form.name.data
        mobile = form.mobile_num.data
        order_place = form.order_place.data
        quantity = form.quantity.data
        pid = request.args['order']
        now = datetime.datetime.now()
        week = datetime.timedelta(days=7)
        delivery_date = now + week
        now_time = delivery_date.strftime("%y-%m-%d %H:%M:%S")
        curs = db.connection.cursor()
        if 'uid' in session:
            uid = session['uid']
            curs.execute("INSERT INTO orders(uid, pid, ofname, mobile, oplace, quantity, ddate) "
                         "VALUES(%s, %s, %s, %s, %s, %s, %s)",
                         (uid, pid, name, mobile, order_place, quantity, now_time))
    else:
        curs.execute("INSERT INTO orders(pid, ofname, mobile, oplace, quantity, ddate) "
                     "VALUES(%s, %s, %s, %s, %s, %s)",
                     (pid, name, mobile, order_place, quantity, now_time))
    db.connection.commit()
    cur.close()
    sendemail()
    flash('Order successful', 'success')
    return render_template('shoes.html', shoes=products, form=form)
if 'view' in request.args:
    q = request.args['view']
    product_id = q
    x = content_based_filtering(product_id)
    curso = db.connection.cursor()
    curso.execute("SELECT * FROM products WHERE id=%s", (q,))
    products = curso.fetchall()
    return render_template('view_product.html', x=x, tshirts=products)
elif 'order' in request.args:
    product_id = request.args['order']
    curso = db.connection.cursor()
    curso.execute("SELECT * FROM products WHERE id=%s", (product_id,))
    product = curso.fetchall()
    x = content_based_filtering(product_id)
    return render_template('order_product.html', x=x, tshirts=product, form=form)
return render_template('shoes.html', shoes=products, form=form)
```

```
@app.route('/admin_login', methods=['GET', 'POST'])
@not_admin_logged_in
def admin_login():
    if request.method == 'POST':
        username = request.form['email']
        password_candidate = request.form['password']
        cur = db.connection.cursor()
        result = cur.execute("SELECT * FROM admin WHERE email=%s", [username])
        if result > 0:
            data = cur.fetchone()
            password = data['password']
            uid = data['id']
            name = data['firstName']
            if (password):
                 session['admin_logged_in'] = True
                session['admin_uid'] = uid
                session['admin_name'] = name
                return redirect(url_for('admin'))
            else:
                flash('Incorrect password', 'danger')
                return render_template('pages/login.html')
        else:
            flash('Username not found', 'danger')
            cur.close()
            return render_template('pages/login.html')
    return render_template('pages/login.html')
@app.route('/admin_out')
def admin_logout():
    if 'admin_logged_in' in session:
        session.clear()
        return redirect(url_for('admin_login'))
    return redirect(url_for('admin'))
@app.route('/admin')
@is_admin_logged_in
def admin():
    curso = db.connection.cursor()
    num_rows = curso.execute("SELECT * FROM products")
    result = curso.fetchall()
    order_rows = curso.execute("SELECT * FROM orders")
    users_rows = curso.execute("SELECT * FROM users")
    return render_template('pages/index.html', result=result, row=num_rows, order_rows=order_rows,
                           users_rows=users_rows)
@app.route('/orders')
@is_admin_logged_in
def orders():
    curso = db.connection.cursor()
    num_rows = curso.execute("SELECT * FROM products")
    order_rows = curso.execute("SELECT * FROM orders")
    result = curso.fetchall()
    users_rows = curso.execute("SELECT * FROM users")
    return render_template('pages/all_orders.html', result=result, row=num_rows,
order_rows=order_rows, users_rows=users_rows)

@app.route('/users')

@is_admin_logged_in

def users():

    curso = db.connection.cursor()

    num_rows = curso.execute("SELECT * FROM products")

    order_rows = curso.execute("SELECT * FROM orders")

    users_rows = curso.execute("SELECT * FROM users")

    result = curso.fetchall()

    return render_template('pages/all_users.html', result=result, row=num_rows,
order_rows=order_rows, users_rows=users_rows)

@app.route('/admin_add_product', methods=['POST', 'GET'])

@is_admin_logged_in

def admin_add_product():

    if request.method == 'POST':

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

        price = request.form['price']

        description = request.form['description']

        available = request.form['available']

        category =  request.form['category']

        item = request.form['item']

        code = request.form['code']

        file = request.files['picture']

        if name and price and description and available and category and item and code and file:

            pic = file.filename
        photo = pic.replace("'", "")
        picture = photo.replace(" ", "_")
        if picture.lower().endswith(('.png', '.jpg', '.jpeg')):
            save_photo = photos.save(file, folder=category)
            if save_photo:
                curs = db.connection.cursor()
                curs.execute("INSERT INTO
products(pName,price,description,available,category,item,pCode,picture)"
                             "VALUES(%s, %s, %s, %s, %s, %s, %s, %s)",
                             (name, price, description, available, category, item, code, picture))
                db.connection.commit()
                product_id = curs.lastrowid
                curs.execute("INSERT INTO product_level(product_id)" "VALUES(%s)", [product_id])
                if category == 'tshirt':
                    level = request.form.getlist('tshirt')
                    for lev in level:
                        yes = 'yes'
                        query = 'UPDATE product_level SET {field}=%s WHERE product_id=%s'.format(field=lev)
                        curs.execute(query, (yes, product_id))
                        db.connection.commit()
                elif category == 'wallet':
                    level = request.form.getlist('wallet')
                    for lev in level:
                        yes = 'yes'
                        query = 'UPDATE product_level SET {field}=%s WHERE product_id=%s'.format(field=lev)
                        curs.execute(query, (yes, product_id))
                        db.connection.commit()
                elif category == 'belt':
                    level = request.form.getlist('belt')
                    for lev in level:
                        yes = 'yes'
                        query = 'UPDATE product_level SET {field}=%s WHERE product_id=%s'.format(field=lev)
                        curs.execute(query, (yes, product_id))
                        db.connection.commit()
                elif category == 'shoes':
                    level = request.form.getlist('shoes')
                    for lev in level:
                        yes = 'yes'
                        query = 'UPDATE product_level SET {field}=%s WHERE product_id=%s'.format(field=lev)
                        curs.execute(query, (yes, product_id))
                        db.connection.commit()
                else:
                    flash('Product level not fund', 'danger')
                    return redirect(url_for('admin_add_product'))
                curs.close()
                flash('Product added successful', 'success')
                return redirect(url_for('admin_add_product'))
            else:
                flash('Picture not save', 'danger')
                return redirect(url_for('admin_add_product'))
        else:
```

```
                flash('File not supported', 'danger')
                return redirect(url_for('admin_add_product'))
        else:
            flash('Please fill up all form', 'danger')
            return redirect(url_for('admin_add_product'))
    else:
        return render_template('pages/add_product.html')
@app.route('/edit_product', methods=['POST', 'GET'])
@is_admin_logged_in
def edit_product():
    if 'id' in request.args:
        product_id = request.args['id']
        curso = db.connection.cursor()
        res = curso.execute("SELECT * FROM products WHERE id=%s", (product_id,))
        product = curso.fetchall()
        curso.execute("SELECT * FROM product_level WHERE product_id=%s", (product_id,))
        product_level = curso.fetchall()
        if res:
            if request.method == 'POST':
                name = request.form.get('name')
                price = request.form['price']
                description = request.form['description']
                available = request.form['available']
                category =  request.form['category']
                item = request.form['item']
```

```
code = request.form['code']

file = request.files['picture']

if name and price and description and available and category and item and code and file:

    pic = file.filename

    photo = pic.replace("'", "")

    picture = photo.replace(" ", "")

    if picture.lower().endswith(('.png', '.jpg', '.jpeg')):

        file.filename = picture

        save_photo = photos.save(file, folder=category)

        if save_photo:

            cur = db.connection.cursor()

            exe = curso.execute(

                "UPDATE products SET pName=%s, price=%s, description=%s, available=%s,
category=%s, item=%s, pCode=%s, picture=%s WHERE id=%s",

                (name, price, description, available, category, item, code, picture, product_id))

            if exe:

                if category == 'tshirt':

                    level = request.form.getlist('tshirt')

                    for lev in level:

                        yes = 'yes'

                        query = 'UPDATE product_level SET {field}=%s WHERE product_id=%s'.format(

                            field=lev)

                        cur.execute(query, (yes, product_id))

                        db.connection.commit()

                elif category == 'wallet':

                    level = request.form.getlist('wallet')
                    for lev in level:
                        yes = 'yes'
                        query = 'UPDATE product_level SET {field}=%s WHERE product_id=%s'.format(
                            field=lev)
                        cur.execute(query, (yes, product_id))
                        db.connection.commit()
                elif category == 'belt':
                    level = request.form.getlist('belt')
                    for lev in level:
                        yes = 'yes'
                        query = 'UPDATE product_level SET {field}=%s WHERE product_id=%s'.format(
                            field=lev)
                        cur.execute(query, (yes, product_id))
                        db.connection.commit()
                elif category == 'shoes':
                    level = request.form.getlist('shoes')
                    for lev in level:
                        yes = 'yes'
                        query = 'UPDATE product_level SET {field}=%s WHERE product_id=%s'.format(
                            field=lev)
                        cur.execute(query, (yes, product_id))
                        db.connection.commit()
                else:
                    flash('Product level not fund', 'danger')
                    return redirect(url_for('admin_add_product'))
```

```
                                flash('Product updated', 'success')

                                return redirect(url_for('edit_product'))

                            else:

                                flash('Data updated', 'success')

                                return redirect(url_for('edit_product'))

                        else:

                            flash('Pic not upload', 'danger')

                            return render_template('pages/edit_product.html', product=product,

                                                   product_level=product_level)

                    else:

                        flash('File not support', 'danger')

                        return render_template('pages/edit_product.html', product=product,

                                               product_level=product_level)

                else:

                    flash('Fill all field', 'danger')

                    return render_template('pages/edit_product.html', product=product,

                                           product_level=product_level)

            else:

                return render_template('pages/edit_product.html', product=product,
product_level=product_level)

        else:

            return redirect(url_for('admin_login'))

    else:

        return redirect(url_for('admin_login'))

@app.route('/search', methods=['POST', 'GET'])

def search():
    form = OrderForm(request.form)
    if 'q' in request.args:
        q = request.args['q']
        cur = db.connection.cursor()
        query_string = "SELECT * FROM products WHERE pName LIKE %s ORDER BY id ASC"
        cur.execute(query_string, ('%' + q + '%',))
        products = cur.fetchall()
        cur.close()
        flash('Showing result for: ' + q, 'success')
        return render_template('search.html', products=products, form=form)
    else:
        flash('Search again', 'danger')
        return render_template('search.html')


@app.route('/profile')
@is_logged_in
def profile():
    if 'user' in request.args:
        q = request.args['user']
        curso = db.connection.cursor()
        curso.execute("SELECT * FROM users WHERE id=%s", (q,))
        result = curso.fetchone()
        if result:
            if result['id'] == session['uid']:
                curso.execute("SELECT * FROM orders WHERE uid=%s ORDER BY id ASC", (session['uid'],))
                res = curso.fetchall()

                return render_template('profile.html', result=res)

            else:

                flash('Unauthorised', 'danger')

                return redirect(url_for('login'))

        else:

            flash('Unauthorised! Please login', 'danger')

            return redirect(url_for('login'))

    else:

        flash('Unauthorised', 'danger')

        return redirect(url_for('login'))

class UpdateRegisterForm(Form):

    name = StringField('Full Name', [validators.length(min=3, max=50)],

                       render_kw={'autofocus': True, 'placeholder': 'Full Name'})

    email = EmailField('Email', [validators.DataRequired(), validators.Email(), validators.length(min=4,
max=25)],

                       render_kw={'placeholder': 'Email'})

    password = PasswordField('Password', [validators.length(min=3)],

                             render_kw={'placeholder': 'Password'})

    mobile = StringField('Mobile', [validators.length(min=11, max=15)], render_kw={'placeholder':
'Mobile'})

@app.route('/settings', methods=['POST', 'GET'])

@is_logged_in

def settings():

    form = UpdateRegisterForm(request.form)

    if 'user' in request.args:
```

```
    q = request.args['user']

    curso = db.connection.cursor()

    curso.execute("SELECT * FROM users WHERE id=%s", (q,))

    result = curso.fetchone()

    if result:

      if result['id'] == session['uid']:

        if request.method == 'POST' and form.validate():

          name = form.name.data

          email = form.email.data

          password = sha256_crypt.encrypt(str(form.password.data))

          mobile = form.mobile.data

          cur = db.connection.cursor()

          exe = cur.execute("UPDATE users SET name=%s, email=%s, password=%s, mobile=%s WHERE
id=%s",

                   (name, email, password, mobile, q))

          if exe:

            flash('Profile updated', 'success')

            return render_template('user_settings.html', result=result, form=form)

          else:

            flash('Profile not updated', 'danger')

        return render_template('user_settings.html', result=result, form=form)

      else:

        flash('Unauthorised', 'danger')

        return redirect(url_for('login'))

    else:

      flash('Unauthorised! Please login', 'danger')
```

```
            return redirect(url_for('login'))
    else:
        flash('Unauthorised', 'danger')
        return redirect(url_for('login'))
class DeveloperForm(Form):  #
    id = StringField('', [validators.length(min=1)],
                     render_kw={'placeholder': 'Input a product id...'})
@app.route('/developer', methods=['POST', 'GET'])
def developer():
    form = DeveloperForm(request.form)
    if request.method == 'POST' and form.validate():
        q = form.id.data
        curso = db.connection.cursor()
        result = curso.execute("SELECT * FROM products WHERE id=%s", (q,))
        if result > 0:
            x = content_based_filtering(q)
            wrappered = wrappers(content_based_filtering, q)
            execution_time = timeit.timeit(wrappered, number=0)
            seconds = ((execution_time / 1000) % 60)
            return render_template('developer.html', form=form, x=x, execution_time=seconds)
        else:
            nothing = 'Nothing found'
            return render_template('developer.html', form=form, nothing=nothing)
    else:
        return render_template('developer.html', form=form)
```

```
if __name___== '_main_':
    app.run(debug=True)
```

Home.Html

```
{% extends 'layout.html' %}

{% block body %}

<!-- Page Content -->

<div class="container">

    <div class="row">

        <!-- /.col-lg-3 -->

        <div class="col-lg-12">

            <div id="carouselExampleIndicators" class="carousel slide my-4" data-ride="carousel">

                <ol class="carousel-indicators">

                    <li data-target="#carouselExampleIndicators" data-slide-to="0" class="active"></li>

                    <li data-target="#carouselExampleIndicators" data-slide-to="1"></li>

                    <li data-target="#carouselExampleIndicators" data-slide-to="2"></li>

                </ol>

                <div class="carousel-inner" role="listbox" style="max-height: 300px">

                    <div class="carousel-item active">

                        <img class="d-block img-fluid" src="/static/image/logo_banner.jpg" alt="New York"
width="1100"                          height="300"

                            style="object-fit:contain; background: #000; object-position: center; height: 300px;
width:1100px;">

                    </div>

                    <div class="carousel-item">

                        <img class="d-block img-fluid" src="/static/image/other/bodyspray.jpg" alt="New York"
```

```
              width="1100" height="300">
            <div class="carousel-caption">
              <h3>Los Angeles</h3>
              <p>We had such a great time in LA!</p>
            </div>
          </div>
          <div class="carousel-item">
            <img class="d-block img-fluid" src="/static/image/other/t-shirt-wallpaper.jpg" alt="New
York"
              width="1100" height="300">
            <div class="carousel-caption">
              <h3>Los Angeles</h3>
              <p>We had such a great time in LA!</p>
            </div>
          </div>
        </div>
        <a class="carousel-control-prev" href="#carouselExampleIndicators" role="button" data-
slide="prev">
          <span class="carousel-control-prev-icon" aria-hidden="true"></span>
          <span class="sr-only">Previous</span>
        </a>
        <a class="carousel-control-next" href="#carouselExampleIndicators" role="button" data-
slide="next">
          <span class="carousel-control-next-icon" aria-hidden="true"></span>
          <span class="sr-only">Next</span>
        </a>
      </div>
      <h3><a href="/tshirt">T-Shirt</a></h3>

      <div class="row">

        {% for product in tshirt %}

        {% if product.category == 'tshirt' %}

        <div class="col-lg-3 col-md-4 col-sm-6">

          <div class="card mb-4">

            <a href="/{{product.category}}?view={{product.id}}">

              <div class="card-img-top id_{{product.id}}"

                style="background:
url('static/image/product/{{product.category}}/{{product.picture}}'); background-repeat:no-repeat;
background-size: cover; height:200px;width:100% ">

              </div>

            </a>

            <div class="card-body">

              <h5><a class="card-title" href="javascript:void();">{{ product.pName}}</a></h5>

              <h4>₹{{product.price}}</h4>

              <span class="text-warning"></span>

            </div>

          </div>

          <!-- /.card -->

        </div>

        {% endif %}

        {% endfor %}

      </div>

      <!-- /.row -->

      <div class="border p-4 mb-4" style="height: 350px">
        <img class="w-100 h-100" src="/static/image/other/bodyspray.jpg" alt="New York">
      </div>
      <h3><a href="/wallet">Wallet</a></h3>
      <div class="row">
        {% for product in wallet %}
        <div class="col-lg-3 col-md-4 col-sm-6">
          <div class="card mb-4">
            <a href="/{{product.category}}?view={{product.id}}">
              <div class="card-img-top"
                style="background:
url('static/image/product/{{product.category}}/{{product.picture}}'); background-repeat:no-repeat;
background-size: cover; height:200px;width:100% ">
              </div>
            </a>
            <div class="card-body">
              <h5><a class="card-title" id="" href="/{{product.category}}?view={{product.id}}">{{
                  product.pName}}</a></h5>
              <h4>₹{{product.price}}</h4>
              <span class="text-warning"></span>
            </div>
          </div>
          <!-- /.card -->
        </div>
        {% endfor %}
      </div>
      <!-- /.row -->
```

```
        <div class="border p-4 mb-4" style="height: 350px">
          <img class="w-100 h-100" src="/static/image/other/watchwallpaper.jpg" alt="New York">
        </div>
        <h3><a href="/belt">Belt</a></h3>
        <div class="row">
          {% for product in belt %}
          <div class="col-lg-3 col-md-4 col-sm-6">
            <div class="card mb-4">
              <a href="/{{product.category}}?view={{product.id}}">
                <div class="card-img-top"
                  style="background:
url('static/image/product/{{product.category}}/{{product.picture}}'); background-repeat:no-repeat;
background-size: cover; height:200px;width:100% ">
                </div>
              </a>
              <div class="card-body">
                <h5><a class="card-title" href="/{{product.category}}?view={{product.id}}">{{
                    product.pName}}</a></h5>
                <h4>₹{{product.price}}</h4>
                <span class="text-warning"></span>
              </div>
            </div>
            <!-- /.card -->
          </div>
          {% endfor %}
        </div>
```

```
    <div class="border p-4 mb-4" style="height: 350px">
      <img class="w-100 h-100" src="/static/image/other/bodyspray.jpg" alt="New York">
    </div>
    <h3><a href="/shoes">Shoes</a></h3>
    <div class="row">
      {% for product in shoes %}
      <div class="col-lg-3 col-md-4 col-sm-6">
        <div class="card mb-4">
          <a href="/{{product.category}}?view={{product.id}}">
            <div class="card-img-top"
              style="background:
url('static/image/product/{{product.category}}/{{product.picture}}'); background-repeat:no-repeat;
background-size: cover; height:200px;width:100% ">
            </div>
          </a>
          <div class="card-body">
            <h5><a class="card-title" href="/{{product.category}}?view={{product.id}}">{{
                product.pName}}</a></h5>
            <h4>₹{{product.price}}</h4>
            <span class="text-warning"></span>
          </div>
        </div>
        <!-- /.card -->
      </div>
      {% endfor %}
    </div>
```

```
      <div class="border p-4 mb-4" style="height: 350px">
        <img class="w-100 h-100" src="/static/image/other/t-shirt-wallpaper.jpg" alt="New York">
      </div>

    </div>
    <!-- /.col-lg-9 -->
  </div>
  <!-- /.row -->
</div>
<!-- /.container -->
{% endblock %}
```

Admin_login.html

```
{% extends 'layout.html' %}
{% block body %}
<div class="jumbotron">
  <h2 style="text-align: center; color: #206aaa;">Login Form</h2>
  {% from "includes/_formhelpers.html" import render_field %}
  <div>
    <form method="POST" action="">
    <div class="form-group">
      {{render_field(form.username, class_="form-control")}}
    </div>
    <div class="form-group">
      <label><strong>Password</strong></label>
      <input type="password" name="password" class="form-control" value={{request.form.password}}>
    </div>
    <button type="submit" class="btn btn-primary">Login</button>
    </form>
  </div>
</div>
{% endblock %}
```

Belt.html

```
{% extends 'layout.html' %}
{% block body %}
<!-- Page Content -->
<div class="container">
  <div class="row">
    <div class="col-lg-3">
      <h1 class="my-4">Belt</h1>
      <div class="list-group">
        <a href="/tshirt" class="list-group-item">T-Shirt</a>
        <a href="/wallet" class="list-group-item">Wallet</a>
        <a href="/belt" class="list-group-item active">Belt</a>
        <a href="/shoes" class="list-group-item">Shoes</a>
      </div>
    </div>
    <!-- /.col-lg-3 -->
    <div class="col-lg-9">
      {% include 'includes/_flashmsg.html' %}
```

```
        <div id="carouselExampleIndicators" class="carousel slide my-4" data-ride="carousel">
          <ol class="carousel-indicators">
             <li data-target="#carouselExampleIndicators" data-slide-to="0" class="active"></li>
            <li data-target="#carouselExampleIndicators" data-slide-to="1"></li>
            <li data-target="#carouselExampleIndicators" data-slide-to="2"></li>
          </ol>
          <div class="carousel-inner" role="listbox" style="max-height: 300px">
            <div class="carousel-item active">
              <img class="d-block img-fluid" src="/static/image/other/watchwallpaper.jpg" alt="New
York"
                 width="1100" height="300">
              <div class="carousel-caption">
                <h3>Los Angeles</h3>
                <p>We had such a great time in LA!</p>
              </div>
            </div>
            <div class="carousel-item">
              <img class="d-block img-fluid" src="/static/image/other/bodyspray.jpg" alt="New York"
width="1100"
                 height="300">
              <div class="carousel-caption">
                <h3>Los Angeles</h3>
                <p>We had such a great time in LA!</p>
              </div>
            </div>
            <div class="carousel-item">
              <img class="d-block img-fluid" src="/static/image/other/t-shirt-wallpaper.jpg" alt="New York"
                 width="1100" height="300">
              <div class="carousel-caption">
                <h3>Los Angeles</h3>
                <p>We had such a great time in LA!</p>
              </div>
            </div>
          </div>
          <a class="carousel-control-prev" href="#carouselExampleIndicators" role="button" data-slide="prev">
            <span class="carousel-control-prev-icon" aria-hidden="true"></span>
            <span class="sr-only">Previous</span>
          </a>
          <a class="carousel-control-next" href="#carouselExampleIndicators" role="button" data-slide="next">
            <span class="carousel-control-next-icon" aria-hidden="true"></span>
            <span class="sr-only">Next</span>
          </a>
        </div>
        <div class="row">
          {% for product in belt %}
          <div class="col-12 col-sm-6 col-md-4 col-lg-4 col-xl-3 mb-4">
            <div class="card h-100">
              <a href="/belt?view={{product.id}}">
                <div class="card-img-top"
```

```
                                style="background:
url('static/image/product/{{product.category}}/{{product.picture}}'); background-repeat:no-repeat;
background-size: cover; height:200px;width:100% "></div>

                        </a>

                        <div class="card-body">

                            <h5 class="card-title">

                                <a href="/belt?view={{product.id}}">{{ product.pName}}</a>

                            </h5>

                            <h4>৳{{product.price}}</h4>

                        </div>

                        <div class="card-footer">

                            <small class="text-muted"></small>

                        </div>

                    </div>

                </div>

                {% endfor %}

            </div>

        </div>

    </div>

</div>

{% endblock %}
```

Layout.html

```
<html>

<head>

    <meta name="viewport" content="width=device-width, initial-scale=1">

    <title>Sundari Shopping</title>
    <meta charset="utf-8">

    <link rel="icon" href="{{ url_for('static', filename='image/logo.png') }}" type="image/x-icon">

    <meta name="viewport" content="width=device-width, initial-scale=1">

    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css">

    <style>

        body {

            background: #60a7f8;

        }

        a {

            color: rgb(65, 56, 56);

            text-decoration: none;

        }

li {

            color: white;

        }

    </style>

    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js"></script>

    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js"></script>

    <link rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }}">

</head>


<body style=" margin-top: 57px ">

    {% include 'includes/_navbar.html' %}

    <div class="container">
    {% block body %} {% endblock %}
  </div>
  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.2/js/bootstrap.min.js"></script>
</body>
{% include 'includes/_footer.html' %}
</html>
```

Login.html

```
{% extends 'layout.html' %}
{% block body %}
{% include 'includes/_flashmsg.html' %}
<div class="jumbotron">
  <h2 style="text-align: center; color: #206aaa;">Login Form</h2>
  {% from "includes/_formhelpers.html" import render_field %}
  <div>
    <form method="POST" action="">
      <div class="form-group">
        {{render_field(form.username, class_="form-control")}}
      </div>
      <div class="form-group">
        {{render_field(form.password, class_="form-control")}}
      </div>
      <button type="submit" class="btn btn-primary">Login</button>
    </form>
  </div>
</div>
```

```
{% endblock %}
```

Orderproduct.html

```
{% extends 'layout.html' %}

{% block body %}

<div class="container">

    <div class="row">

        <div class="col-lg-3 my-4">

            <div class="list-group">

                <a href="/tshirt" class="list-group-item">T-Shirt</a>

                <a href="/wallet" class="list-group-item">Wallet</a>

                <a href="/belt" class="list-group-item">Belt</a>

                <a href="/shoes" class="list-group-item">Shoes</a>

            </div>

        </div>

        <div class="col-lg-9">

            <div class="row">

                {% for product in tshirts %}

                <div class="col-lg-6">

                    <div class="card mt-4">

                        <img class="card-img-top img-fluid"

                            src="static/image/product/{{product.category}}/{{product.picture}}"  alt="">

                    </div>

                </div>

                <div class="col-lg-6">

                    <div class="card card-outline-secondary my-4">
                        <div class="card-header">
                            Order Details
                        </div>
                        <div class="card-body">
                            {% from "includes/_formhelpers.html" import render_field %}
                            <form method="POST" action="/{{product.category}}?order={{product.id}}">
                                <div class="form-group">
                                    {{render_field(form.name, class_="form-control")}}
                                </div>
                                <div class="form-group">
                                    {{render_field(form.mobile_num, class_="form-control")}}
                                </div>
                                <div class="form-group">
                                    {{render_field(form.quantity, class_="form-control")}}
                                </div>
                                <div class="form-group">
                                    {{render_field(form.order_place, class_="form-control")}}
                                </div>
                                <button type="submit" class="btn btn-primary">Confirm Order</button>
                            </form>
                        </div>
                    </div>
                </div>
                {% endfor %}
            </div>
```

```
            {% endif %}
    </div>
</div>
{% endblock %}
```

Profile.html

```
{% extends 'layout.html' %}
{% block body %}
<div class="container">
    <div class="row">
        <div class="col-lg-3">
            <h1 class="my-4">{{session.s_name}}</h1>
            <div class="list-group">
                <a href="/profile?user={{session.uid}}" class="list-group-item">Order List</a>
                <a href="/settings?user={{session.uid}}" class="list-group-item">Settings</a>
            </div>
        </div>
        <div class="col-lg-9">
            <div class="card card-default my-4">
                <div class="card-header">
                    <i class="fa fa-bar-chart-o fa-fw"></i>My order list
                </div>
                <div class="card-body">
                    <div class="row">
                        <div class="col-lg-12">
                            {% if result %}
```

```
<div class="table-responsive">
  <table class="table table-bordered table-hover table-striped">
    <thead>
      <tr>
        <th>Order No</th>
        <th>Product ID</th>
        <th>Quantity</th>
        <th>Order Place</th>
        <th>Mobile</th>
        <th>Order Date</th>
        <th>Delivery Date</th>
      </tr>
    </thead>
    <tbody>
      {% for order in result %}
      <tr>
        <td>{{order.id}}</td>
        <td>{{order.pid}}</td>
        <td>{{order.quantity}}</td>
        <td>{{order.oplace}}</td>
        <td>{{order.mobile}}</td>
        <td>{{order.odate}}</td>
        <td>{{order.ddate}}</td>
      </tr>
      {% endfor%}
```

```
                                    </tbody>
                                </table>
                            </div>
                            {% else %}
                            <h3>No orders found</h3>
                            {% endif %}
                            <!-- /.table-responsive -->
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>
</div>
{% endblock %}
```

Register.html

```
{% extends 'layout.html' %}
{% block body %}
<div class="jumbotron">
    <h2 style="text-align: center; color: #206aaa;">Sign Up Form</h2>
    {% from "includes/_formhelpers.html" import render_field %}
    <form method="POST" action="">
        <div class="form-group">
            {{render_field(form.name, class_="form-control")}}
        </div>
        <div class="form-group">
            {{render_field(form.email, class="form-control")}}
        </div>
        <div class="form-group">
            {{render_field(form.username, class="form-control")}}
        </div>
        <div class="form-group">
            {{render_field(form.password, class="form-control")}}
        </div>
        <div class="form-group">
            {{render_field(form.mobile, class="form-control")}}
        </div>
        <p>
            <input type="submit" class="btn btn-primary" value="Sign Up">
        </p>
    </form>
</div>
{% endblock %}
```

Search.html

```
{% extends 'layout.html' %}
{% block body %}
<div class="container">
    <div class="row">
        <div class="col-lg-12">
```

```
      {% include 'includes/_flashmsg.html' %}

      <div class="row">

        {% for product in products %}

        <div class="col-lg-3 col-md-4 col-sm-6">

          <div class="card mb-4">

            <a href="/{{product.category}}?view={{product.id}}">

              <div class="card-img-top"

                style="background:
url('static/image/product/{{product.category}}/{{product.picture}}'); background-repeat:no-repeat;
background-size: cover; height:200px;width:100% ">

              </div>

            </a>

            <div class="card-body">

              <h3><a class="card-title" id="" href="/{{product.category}}?view={{product.id}}">{{

                  product.pName}}</a></h3>

              <h4>₹24.99</h4>

              <span class="text-warning"></span>

            </div>

          </div>

          <!-- /.card -->

        </div>

        {% endfor %}

      </div>

    </div>

     </div>

 </div>
```

```
{% endblock %}
```

Shoes.html

```
{% extends 'layout.html' %}
{% block body %}
<div class="container">
    <div class="row">
        <div class="col-lg-3">
            <h1 class="my-4">Shoes</h1>
            <div class="list-group">
                <a href="/tshirt" class="list-group-item">T-Shirt</a>
                <a href="/wallet" class="list-group-item">Wallet</a>
                <a href="/belt" class="list-group-item">Belt</a>
                <a href="/shoes" class="list-group-item active">Shoes</a>
            </div>
        </div>
        <div class="col-lg-9">
            {% include 'includes/_flashmsg.html' %}
            <div id="carouselExampleIndicators" class="carousel slide my-4" data-ride="carousel">
                <ol class="carousel-indicators">
                    <li data-target="#carouselExampleIndicators" data-slide-to="0" class="active"></li>
                    <li data-target="#carouselExampleIndicators" data-slide-to="1"></li>
                    <li data-target="#carouselExampleIndicators" data-slide-to="2"></li>
                </ol>
                <div class="carousel-inner" role="listbox" style="max-height: 300px">
                    <div class="carousel-item active">
            <img class="d-block img-fluid" src="/static/image/other/watchwallpaper.jpg" alt="New
York"
              width="1100" height="300">
            <div class="carousel-caption">
              <h3>Los Angeles</h3>
              <p>We had such a great time in LA!</p>
            </div>
          </div>
          <div class="carousel-item">
            <img class="d-block img-fluid" src="/static/image/other/bodyspray.jpg" alt="New York"
              width="1100" height="300">
            <div class="carousel-caption">
              <h3>Los Angeles</h3>
              <p>We had such a great time in LA!</p>
            </div>
          </div>
          <div class="carousel-item">
            <img class="d-block img-fluid" src="/static/image/other/t-shirt-wallpaper.jpg" alt="New
York"
              width="1100" height="300">
            <div class="carousel-caption">
              <h3>Los Angeles</h3>
              <p>We had such a great time in LA!</p>
            </div>
          </div>
        </div>
```

```
          <a class="carousel-control-prev" href="#carouselExampleIndicators" role="button" data-slide="prev">
            <span class="carousel-control-prev-icon" aria-hidden="true"></span>
            <span class="sr-only">Previous</span>
          </a>
          <a class="carousel-control-next" href="#carouselExampleIndicators" role="button" data-slide="next">
            <span class="carousel-control-next-icon" aria-hidden="true"></span>
            <span class="sr-only">Next</span>
          </a>
        </div>
        <div class="row">
          {% for product in shoes %}
          <div class="col-12 col-sm-6 col-md-4 col-lg-4 col-xl-3 mb-4">
            <div class="card h-100">
              <a href="/shoes?view={{product.id}}">
                <div class="card-img-top"
                  style="background: url('static/image/product/{{product.category}}/{{product.picture}}'); background-repeat:no-repeat; background-size: cover; height:200px;width:100% ">
                </div>
              </a>
              <div class="card-body">
                <h5 class="card-title">
                  <a href="/shoes?view={{product.id}}">{{ product.pName}}</a>
                </h5>
                <h4>₹{{product.price}}</h4>
```

```
                        </div>
                        <div class="card-footer">
                            <small class="text-muted"></small>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>
</div>
{% endblock %}
```

T-shirt.html

```
{% extends 'layout.html' %}
{% block body %}
<div class="container">
    <div class="row">
        <div class="col-lg-3">
            <h1 class="my-4">T-Shirt</h1>
            <div class="list-group">
                <a href="/tshirt" class="list-group-item active">T-Shirt</a>
                <a href="/wallet" class="list-group-item">Wallet</a>
                <a href="/belt" class="list-group-item">Belt</a>
                <a href="/shoes" class="list-group-item">Shoes</a>
            </div>
        </div>
    <div class="col-lg-9">

      {% include 'includes/_flashmsg.html' %}

      <div id="carouselExampleIndicators" class="carousel slide my-4" data-ride="carousel">

        <ol class="carousel-indicators">

          <li data-target="#carouselExampleIndicators" data-slide-to="0" class="active"></li>

          <li data-target="#carouselExampleIndicators" data-slide-to="1"></li>

          <li data-target="#carouselExampleIndicators" data-slide-to="2"></li>

        </ol>

        <div class="carousel-inner" role="listbox" style="max-height: 300px">

          <div class="carousel-item active">

            <img class="d-block img-fluid" src="/static/image/other/watchwallpaper.jpg" alt="New
York"

              width="1100" height="300">

            <div class="carousel-caption">

              <h3>Los Angeles</h3>

              <p>We had such a great time in LA!</p>

            </div>

          </div>

          <div class="carousel-item">

            <img class="d-block img-fluid" src="/static/image/other/bodyspray.jpg" alt="New York"

              width="1100" height="300">

            <div class="carousel-caption">

              <h3>Los Angeles</h3>

              <p>We had such a great time in LA!</p>

            </div>

          </div>
          <div class="carousel-item">
            <img class="d-block img-fluid" src="/static/image/other/t-shirt-wallpaper.jpg" alt="New
York"
              width="1100" height="300">
            <div class="carousel-caption">
              <h3>Los Angeles</h3>
              <p>We had such a great time in LA!</p>
            </div>
          </div>
        </div>
        <a class="carousel-control-prev" href="#carouselExampleIndicators" role="button" data-
slide="prev">
          <span class="carousel-control-prev-icon" aria-hidden="true"></span>
          <span class="sr-only">Previous</span>
        </a>
        <a class="carousel-control-next" href="#carouselExampleIndicators" role="button" data-
slide="next">
          <span class="carousel-control-next-icon" aria-hidden="true"></span>
          <span class="sr-only">Next</span>
        </a>
      </div>
      <div class="row">
        {% for product in tshirt %}
        <div class="col-12 col-sm-6 col-md-4 col-lg-4 col-xl-3 mb-4">
          <div class="card h-100">
            <a href="/tshirt?view={{product.id}}">
              <div class="card-img-top"
```

```
                style="background:
url('static/image/product/{{product.category}}/{{product.picture}}'); background-repeat:no-repeat;
background-size: cover; height:200px;width:100% ">
              </div>
            </a>
            <div class="card-body">
              <h5 class="card-title">
                <a href="/tshirt?view={{product.id}}">{{ product.pName}}</a>
              </h5>
              <h4>₹{{product.price}}</h4>
            </div>
            <div class="card-footer">
              <small class="text-muted"></small>
            </div>
          </div>
        </div>
        {% endfor %}
      </div>
    </div>
  </div>
</div>
{% endblock %}
```

User_settings.html

```
{% extends 'layout.html' %}
{% block body %}
<div class="container">
```

```
<div class="row">
    <div class="col-lg-3">
        <h1 class="my-4">{{session.s_name}}</h1>
        <div class="list-group">
            <a href="/profile?user={{session.uid}}" class="list-group-item">Order List</a>
            <a href="/settings?user={{session.uid}}" class="list-group-item">Settings</a>
        </div>
    </div>
           <div class="col-lg-9">
        {% include 'includes/_flashmsg.html' %}
        <div class="card card-default my-4">
            <div class="card-header">
                <i class="fa fa-bar-chart-o fa-fw"></i>Update profile info
            </div>
                   <div class="card-body">
                {% if result %}
                {% from "includes/_formhelpers.html" import render_field %}
                <form method="POST" action="/settings?user={{result.id}}">
                    <div class="form-group">
                        {{render_field(form.name, class_="form-control", value=result.name)}}
                    </div>
                    <div class="form-group">
                        {{render_field(form.email, class="form-control", value=result.email)}}
                    </div>
                    <div class="form-group">
```

```
                            {{render_field(form.password, class="form-control")}}
                        </div>
                        <div class="form-group">
                            {{render_field(form.mobile, class="form-control", value=result.mobile)}}
                        </div>
                        <p>
                            <input type="submit" class="btn btn-primary" value="Update Settings">
                        </p>
                    </form>
                    {% endif%}
                </div>
                </div>
        </div>
    </div>
</div>
{% endblock %}
```

View_product.html

```
{% extends 'layout.html' %}
{% block body %}
<!-- Page Content -->
<div class="container">
    <div class="row">
        <div class="col-lg-3 my-4">
            <div class="list-group">
                <a href="/tshirt" class="list-group-item">T-Shirt</a>
        <a href="/wallet" class="list-group-item">Wallet</a>

        <a href="/belt" class="list-group-item">Belt</a>

        <a href="/shoes" class="list-group-item">Shoes</a>

      </div>

    </div>

       <div class="col-lg-9">

      <div class="row">

        {% for product in tshirts %}

        <div class="col-lg-6">

          <div class="card mt-4">

            <img class="card-img-top img-fluid"

              src="static/image/product/{{product.category}}/{{product.picture}}"  alt="">

          </div>

        </div>

        <div class="col-lg-6">

          <div class="card card-outline-secondary my-4">

            <div class="card-header">

              Product Details

            </div>

            <div class="card-body">

              <h3 class="card-title">{{ product.pName}}</h3>

              <h4>₹{{ product.price}}</h4>

              <p class="card-text">{{ product.description}}</p>

              <a href="/{{product.category}}?order={{product.id}}" class="btn btn-success">Order Now</a>

            </div>
          </div>

        </div>

        {% endfor %}

       </div>

   {% if x == '' %}

   <h2 class="mb-4">No similar product found</h2>

   {% else%}

   <h2 class="mb-4">Similar product for you:</h2>

   <div class="row">

        {% for product in x[0] %}

        <div class="col-lg-3 col-md-4 col-sm-6">

            <div class="card mb-4">

                <a href="/{{product.category}}?view={{product.id}}">

                    <div class="card-img-top id_{{product.id}}"

                        style="background:
url('static/image/product/{{product.category}}/{{product.picture}}'); background-repeat:no-repeat;
background-size: cover; height:200px;width:100% ">

                    </div>

                </a>

                <div class="card-body">

                    <h5><a class="card-title" href="/{{product.category}}?view={{product.id}}">{{

                            product.pName}}</a></h5>

                    <h4>₹{{product.price}}</h4>

                </div>

            </div>

          </div>
```

```
            {% endfor %}
          </div>
          {% endif %}
        </div>
      </div>
</div>
{% endblock %}
```

Wallet.html

```
{% extends 'layout.html' %}
{% block body %}
<div class="container">
    <div class="row">
        <div class="col-lg-3">
          <h1 class="my-4">Wallet</h1>
          <div class="list-group">
            <a href="/tshirt" class="list-group-item">T-Shirt</a>
            <a href="/wallet" class="list-group-item active">Wallet</a>
            <a href="/belt" class="list-group-item">Belt</a>
            <a href="/shoes" class="list-group-item ">Shoes</a>
          </div>
        </div>
        <div class="col-lg-9">
          {% include 'includes/_flashmsg.html' %}
          <div id="carouselExampleIndicators" class="carousel slide my-4" data-ride="carousel">
        <ol class="carousel-indicators">
          <li data-target="#carouselExampleIndicators" data-slide-to="0" class="active"></li>
          <li data-target="#carouselExampleIndicators" data-slide-to="1"></li>
          <li data-target="#carouselExampleIndicators" data-slide-to="2"></li>
        </ol>
        <div class="carousel-inner" role="listbox" style="max-height: 300px">
          <div class="carousel-item active">
            <img class="d-block img-fluid" src="/static/image/other/watchwallpaper.jpg" alt="New
York"
              width="1100" height="300">
            <div class="carousel-caption">
              <h3>Los Angeles</h3>
              <p>We had such a great time in LA!</p>
            </div>
          </div>
          <div class="carousel-item">
            <img class="d-block img-fluid" src="/static/image/other/bodyspray.jpg" alt="New York"
              width="1100" height="300">
            <div class="carousel-caption">
              <h3>Los Angeles</h3>
              <p>We had such a great time in LA!</p>
            </div>
          </div>
          <div class="carousel-item">
            <img class="d-block img-fluid" src="/static/image/other/t-shirt-wallpaper.jpg" alt="New
York"
```

```
                    width="1100" height="300">
                  <div class="carousel-caption">
                    <h3>Los Angeles</h3>
                    <p>We had such a great time in LA!</p>
                  </div>
                </div>
              </div>
              <a class="carousel-control-prev" href="#carouselExampleIndicators" role="button" data-slide="prev">
                <span class="carousel-control-prev-icon" aria-hidden="true"></span>
                <span class="sr-only">Previous</span>
              </a>
              <a class="carousel-control-next" href="#carouselExampleIndicators" role="button" data-slide="next">
                <span class="carousel-control-next-icon" aria-hidden="true"></span>
                <span class="sr-only">Next</span>
              </a>
            </div>
            <div class="row">
              {% for product in wallet %}
              <div class="col-12 col-sm-6 col-md-4 col-lg-4 col-xl-3 mb-4">
                <div class="card h-100">
                  <a href="/wallet?view={{product.id}}">
                    <div class="card-img-top"
                      style="background: url('static/image/product/{{product.category}}/{{product.picture}}'); background-repeat:no-repeat; background-size: cover; height:200px;width:100% ">
                    </div>
                  </a>
                  <div class="card-body">
                    <h5 class="card-title">
                      <a href="/wallet?view={{product.id}}">{{ product.pName}}</a>
                    </h5>
                    <h4>₹{{product.price}}</h4>
                  </div>
                  <div class="card-footer">
                    <small class="text-muted"></small>
                  </div>
                </div>
              </div>
              {% endfor %}
            </div>
          </div>
        </div>
      </div>
      {% endblock %}
```

_flashmsg.html

```
{% with messages = get_flashed_messages(with_categories=true) %}
 {% if messages %}
  {% for category, message in messages %}
   <div class="alert alert-{{ category }} alert-dismissible my-4" role="alert">
```

```
      {{ message }}
      </div>
    {% endfor %}
  {% endif %}
{% endwith %}
```

_footer.html

```
<section id="footer">
    <div class="container">
        <div class="row text-center text-xs-center text-sm-left text-md-left">
            <div class="col-xs-12 col-sm-4 col-md-4">
                <h5>Quick Links</h5>
                <ul class="list-unstyled quick-links">
                    <li><a href="/"><i class="fa fa-angle-double-right"></i>Home</a></li>
                    <li><a href="/tshirt"><i class="fa fa-angle-double-right"></i>T-Shirt</a></li>
                    <li><a href="/belt"><i class="fa fa-angle-double-right"></i>Belt</a></li>
                    <li><a href="/shoes"><i class="fa fa-angle-double-right"></i>Shoes</a></li>
                    <li><a href="/wallet"><i class="fa fa-angle-double-right"></i>Wallet</a></li>
                </ul>
            </div>
            <div class="col-xs-12 col-sm-4 col-md-4">
                <h5>Social</h5>
                <ul class="list-unstyled quick-links">
                    <li><a href="https://www.linkedin.com/ ">Linked In</a></li>
                    <li><a href="https://github.com ">Git Hub</a>
                    </li>
        </ul>

      </div>

      <div class="col-xs-12 col-sm-4 col-md-4">

        <h5>About Team</h5>

        <ul class="list-unstyled quick-links">

          <li>Team ID : PNT2022TMID603</li>

          <li>Team Leader : Sree kumaran S</li>

          <li>Team member : Vijay V</li>

          <li>Team member : Sathish R</li>

          <li>Team member : Tharun sai P S</li>

        </ul>

      </div>

    </div>

    <div class="row">

      <div class="col-xs-12 col-sm-12 col-md-12 mt-2 mt-sm-2 text-center text-white">
      <p>*******************************************</p>

      </div>

    </div>

  </div>

</section>

<script>

  window.watsonAssistantChatOptions = {

    integrationID: "0319627f-d899-46cf-900d-e7d547432eff", // The ID of this integration.

    region: "eu-gb", // The region your integration is hosted in.
    serviceInstanceID: "2187bdc6-3463-4336-a0e5-105ac4d979db", // The ID of your service instance.
    onLoad: function (instance) { instance.render(); }
  };
  setTimeout(function () {
    const t = document.createElement('script');
    t.src = "https://web-chat.global.assistant.watson.appdomain.cloud/versions/" + (window.watsonAssistantChatOptions.clientVersion || 'latest') + "/WatsonAssistantChatEntry.js";
    document.head.appendChild(t);
  });
</script>
```

_formhelper.html

```
{% macro render_field(field) %}
<dt>{{ field.label }}</dt>
 {{ field(**kwargs)|safe }}
 {% if field.errors %}
  {% for error in field.errors %}
   <span class="help-inline">{{ error }}</span>
  {% endfor %}
 {% endif %}
{% endmacro %}
```

_navbar.html

```
<nav class="navbar navbar-expand-lg navbar-light bg-white border-bottom shadow-sm fixed-top">
  <img src="/static/image/logo.png" alt="logo" draggable="false" style="width: 50px; padding-right:5px;">
  <a class="navbar-brand" href="/">Sundari Shopping</a>
  <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarResponsive"
```

```
    aria-controls="navbarResponsive" aria-expanded="false" aria-label="Toggle navigation">
    <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarResponsive">
    <div class="input-group p-0 justify-content-center">
      <form action="/search" method="get" class="w-100 m-0" style="padding-right: 20%;">
        <div class="input-group-append rounded-left">
          <input type="text" class="form-control rounded-left form-control-sm" autocomplete="off"
            style="float: left; border-radius: 0;" name="q" placeholder="What you want...">
          <button class="btn btn-success btn-sm rounded-right" style="border-radius: 0;"
            type="submit">Search</button>
        </div>
      </form>
    </div>
    <ul class="navbar-nav ml-auto">
      {% if session.logged_in %}
      <li class="nav-item"><a href="/" class="nav-link"><span class=""></span> Home</a></li>
      <li class="nav-item"><a href="/profile?user={{session.uid}}" class="nav-
link">{{session.s_name}}</a>
      </li>
      <li class="nav-item"><a href="/out" class="nav-link"><span class=""></span> Logout</a></li>
      {% else %}
      <li class="nav-item"><a href="/" class="nav-link"><span class=""></span> Home</a></li>
      <li class="nav-item"><a href="/register" class="nav-link"><span class=""></span> Signup</a></li>
      <li class="nav-item"><a href="/login" class="nav-link"><span class=""></span> Login</a></li>
      {% endif %}
```

```
        </ul>
    </div>
</nav>
```

Add_product.html

```
{% extends 'pages/layout.html' %}
{% block body %}
<div id="page-wrapper">
    <div class="row">
        <div class="col-lg-12">
            <h1 class="page-header">Add Product</h1>
            {% include 'includes/_flashmsg.html' %}
        </div>
        <!-- /.col-lg-12 -->
    </div>
    <!-- /.row -->
    <div class="row">
        <div class="col-lg-12">
            <div class="panel panel-default">
                <div class="panel-body">
                    <div class="row">
                        <div class="col-lg-6">
                            <form role="form" enctype=multipart/form-data class="" action="/admin_add_product"
                                  method="post">
                <div class="form-group">
                  <label>Product Name</label>
                  <input class="form-control" required="required" name="name" placeholder="Enter name">
                </div>
                <div class="form-group">
                  <label>Price</label>
                  <input class="form-control" required="required" name="price" placeholder="Enter price">
                </div>
                <div class="form-group">
                  <label>Description</label>
                  <textarea class="form-control" required="required" name="description" rows="3"
                       placeholder="Write product description"></textarea>
                </div>
                <div class="form-group">
                  <label>Available</label>
                  <input class="form-control" required="required" name="available" placeholder="Available">
                </div>
                <div class="form-group">
                  <label>Category</label>
                  <select class="form-control" id="category_id" onchange="populateList();"
                      name="category">
                    <option value="tshirt">T-Shirt</option>
                    <option value="wallet">Wallet</option>
                    <option value="belt">Belt</option>
```

```
            <option value="shoes">Shoes</option>
        </select>
    </div>
    <div class="form-group level-container">
        <label>level for T-shirt</label>
        <div class="form-group">
            <label class="checkbox-inline">
                <input type="checkbox" name="tshirt" value="v_shape">V-Shape
            </label>
            <label class="checkbox-inline">
                <input type="checkbox" name="tshirt" value="polo">Polo T-shirt
            </label>
            <label class="checkbox-inline">
                <input type="checkbox" name="tshirt" value="clean_text">Clean Text
            </label>
            <label class="checkbox-inline">
                <input type="checkbox" name="tshirt" value="design">Colorful Design
            </label>
        </div>
        <label>Level for Wallet</label>
        <div class="form-group">
            <label class="checkbox-inline">
                <input type="checkbox" name="wallet" value="chain">Chain
            </label>
            <label class="checkbox-inline">
                <input type="checkbox" name="wallet" value="leather">Leather
            </label>
            <label class="checkbox-inline">
                <input type="checkbox" name="wallet" value="design">Design
            </label>
        </div>
        <label>Level for Belt</label>
        <div class="form-group">
            <label class="checkbox-inline">
                <input type="checkbox" name="belt" value="leather">Leather
            </label>
            <label class="checkbox-inline">
                <input type="checkbox" name="belt" value="hook">Hook
            </label>
            <label class="checkbox-inline">
                <input type="checkbox" name="belt" value="color">Color
            </label>
            <label class="checkbox-inline">
                <input type="checkbox" name="belt" value="design">Design
            </label>
        </div>
        <label>Level for Shoes</label>
        <div class="form-group">
            <label class="checkbox-inline">
                <input type="checkbox" name="shoes" value="formal">Formal
```

```
                    </label>
                    <label class="checkbox-inline">
                      <input type="checkbox" name="shoes" value="converse">Converse
                    </label>
                    <label class="checkbox-inline">
                      <input type="checkbox" name="shoes" value="loafer">Loafer
                    </label>
                    <label class="checkbox-inline">
                      <input type="checkbox" name="shoes" value="leather">Leather
                    </label>
                  </div>
                </div>
                <div class="form-group">
                  <label>Item</label>
                  <input class="form-control" required="required" name="item" placeholder="Ex:
watch/shoes">
                </div>
                <div class="form-group">
                  <label>Product Code</label>
                  <input class="form-control" required="required" name="code" placeholder="Enter
code">
                </div>
                <div class="form-group">
                  <label>Add Image</label>
                  <input type="file" required="required" name="picture">
                </div>
```

```
                                <button type="submit" class="btn btn-default">Submit Button</button>
                            </form>
                        </div>
                        <!-- /.col-lg-6 (nested) -->
                    </div>
                    <!-- /.row (nested) -->
                </div>
                <!-- /.panel-body -->
            </div>
            <!-- /.panel -->
        </div>
        <!-- /.col-lg-12 -->
    </div>
    <!-- /.row -->
</div>
<!-- /#page-wrapper -->
{% endblock %}
```

All_orders.html

```
{% extends 'pages/layout.html' %}
{% block body %}
<div id="page-wrapper">
    <div class="row">
        <div class="col-lg-12">
            <h1 class="page-header">Dashboard</h1>
            {% include 'includes/_flashmsg.html' %}
        </div>
        <!-- /.col-lg-12 -->
    </div>
    <!-- /.row -->
    <div class="row">
        <div class="col-lg-4 col-md-6">
            <div class="panel panel-primary">
                <div class="panel-heading">
                    <div class="row">
                        <div class="col-xs-3">
                            <i class="fa fa-list-ul fa-5x"></i>
                        </div>
                        <div class="col-xs-9 text-right">
                            <div class="huge">{{row}}</div>
                            <div>All Product</div>
                        </div>
                    </div>
                </div>
                <a href="/admin">
                    <div class="panel-footer">
                        <span class="pull-left">View Details</span>
                        <span class="pull-right"><i class="fa fa-arrow-circle-right"></i></span>
                        <div class="clearfix"></div>
                    </div>
            </a>
        </div>
    </div>
    <div class="col-lg-4 col-md-6">
        <div class="panel panel-green">
            <div class="panel-heading">
                <div class="row">
                    <div class="col-xs-3">
                        <i class="fa fa-tasks fa-5x"></i>
                    </div>
                    <div class="col-xs-9 text-right">
                        <div class="huge">{{users_rows}}</div>
                        <div>All Users</div>
                    </div>
                </div>
            </div>
            <a href="/users">
                <div class="panel-footer">
                    <span class="pull-left">View Details</span>
                    <span class="pull-right"><i class="fa fa-arrow-circle-right"></i></span>
                    <div class="clearfix"></div>
                </div>
            </a>
        </div>
    </div>
```

```
    <div class="col-lg-4 col-md-6">
        <div class="panel panel-yellow">
            <div class="panel-heading">
                <div class="row">
                    <div class="col-xs-3">
                        <i class="fa fa-shopping-cart fa-5x"></i>
                    </div>
                    <div class="col-xs-9 text-right">
                        <div class="huge">{{order_rows}}</div>
                        <div>All Orders</div>
                    </div>
                </div>
            </div>
            <a href="/orders">
                <div class="panel-footer">
                    <span class="pull-left">View Details</span>
                    <span class="pull-right"><i class="fa fa-arrow-circle-right"></i></span>
                    <div class="clearfix"></div>
                </div>
            </a>
        </div>
    </div>
</div>
<!-- /.row -->
<div class="row">
```

```
<div class="col-lg-12">
    <div class="panel panel-default my-4">
        <div class="panel-heading">
            <i class="fa fa-bar-chart-o fa-fw"></i>All Orders
        </div>
        <!-- /.panel-heading -->
        <div class="panel-body">
            <div class="row">
                <div class="col-lg-12">
                    {% if result %}
                    <div class="table-responsive">
                        <table class="table table-bordered table-hover table-striped">
                            <thead>
                                <tr>
                                    <th>Id</th>
                                    <th>User Id</th>
                                    <th>Name</th>
                                    <th>Product Id</th>
                                    <th>Quantity</th>
                                    <th>Order Place</th>
                                    <th>Mobile</th>
                                    <th>Order Date</th>
                                    <th>Delivery Date</th>
                                </tr>
                            </thead>
```

```
              <tbody>
                {% for product in result %}
                <tr>
                  <td>{{product.id}}</td>
                  <td>{{product.uid}}</td>
                  <td>{{product.ofname}}</td>
                  <td>{{product.pname}}</td>
                  <td>{{product.quantity}}</td>
                  <td>{{product.oplace}}</td>
                  <td>{{product.mobile}}</td>
                  <td>{{product.odate}}</td>
                  <td>{{product.ddate}}</td>
                </tr>
                {% endfor%}
              </tbody>
            </table>
          </div>
          {% else %}
          <h3>No orders found</h3>
          {% endif %}
        </div>
      </div>
    </div>
</div>
</div>
```

```
    </div>
   </div>
{% endblock %}
```

All_users.html

```
{% extends 'pages/layout.html' %}
{% block body %}
<div id="page-wrapper">
    <div class="row">
        <div class="col-lg-12">
            <h1 class="page-header">Dashboard</h1>
            {% include 'includes/_flashmsg.html' %}
        </div>
    </div>
    <div class="row">
        <div class="col-lg-4 col-md-6">
            <div class="panel panel-primary">
                <div class="panel-heading">
                    <div class="row">
                        <div class="col-xs-3">
                            <i class="fa fa-list-ul fa-5x"></i>
                        </div>
                        <div class="col-xs-9 text-right">
                            <div class="huge">{{row}}</div>
                            <div>All Product</div>
                </div>
            </div>
        </div>
        <a href="/admin">
            <div class="panel-footer">
                <span class="pull-left">View Details</span>
                <span class="pull-right"><i class="fa fa-arrow-circle-right"></i></span>
                <div class="clearfix"></div>
            </div>
        </a>
    </div>
</div>
<div class="col-lg-4 col-md-6">
    <div class="panel panel-green">
        <div class="panel-heading">
            <div class="row">
                <div class="col-xs-3">
                    <i class="fa fa-tasks fa-5x"></i>
                </div>
                <div class="col-xs-9 text-right">
                    <div class="huge">{{users_rows}}</div>
                    <div>All Users</div>
                </div>
            </div>
        </div>
        <a href="/users">
          <div class="panel-footer">
            <span class="pull-left">View Details</span>
            <span class="pull-right"><i class="fa fa-arrow-circle-right"></i></span>
            <div class="clearfix"></div>
          </div>
        </a>
      </div>
    </div>
    <div class="col-lg-4 col-md-6">
      <div class="panel panel-yellow">
        <div class="panel-heading">
          <div class="row">
            <div class="col-xs-3">
              <i class="fa fa-shopping-cart fa-5x"></i>
            </div>
            <div class="col-xs-9 text-right">
              <div class="huge">{{order_rows}}</div>
              <div>All Orders</div>
            </div>
          </div>
        </div>
        <a href="/orders">
          <div class="panel-footer">
            <span class="pull-left">View Details</span>
```

```
                    <span class="pull-right"><i class="fa fa-arrow-circle-right"></i></span>
                    <div class="clearfix"></div>
                </div>
            </a>
        </div>
    </div>
</div>
<div class="row">
    <div class="col-lg-12">
        <div class="panel panel-default my-4">
            <div class="panel-heading">
                <i class="fa fa-bar-chart-o fa-fw"></i>All Orders
            </div>
            <div class="panel-body">
                <div class="row">
                    <div class="col-lg-12">
                        {% if result %}
                        <div class="table-responsive">
                            <table class="table table-bordered table-hover table-striped">
                                <thead>
                                <tr>
                                    <th>Id</th>
                                    <th>Name</th>
                                    <th>Email</th>
                                    <th>Username</th>
                <th>Mobile</th>

                <th>Registration Time</th>

                <th>Online</th>

              </tr>

              </thead>

              <tbody>

              {% for product in result %}

              <tr>

                <td>{{product.id}}</td>

                <td>{{product.name}}</td>

                <td>{{product.email}}</td>

                <td>{{product.username}}</td>

                <td>{{product.mobile}}</td>

                <td>{{product.reg_time}}</td>

                <td>{{product.online}}</td>

              </tr>

              {% endfor%}

              </tbody>

            </table>

        </div>

        {% else %}

        <h3>No user found</h3>

        {% endif %}

    </div>

</div>
```

```
                </div>
            </div>
        </div>
    </div>
   {% endblock %}
```

Edit_product.html

```
{% extends 'pages/layout.html' %}
{% block body %}
<div id="page-wrapper">
    <div class="row">
        <div class="col-lg-12">
            <h1 class="page-header">Edit Product</h1>
            {% include 'includes/_flashmsg.html' %}
        </div>
</div>
       <div class="row">
        <div class="col-lg-12">
            <div class="panel panel-default">
                <div class="panel-body">
                    <div class="row">
                        <div class="col-lg-6">
                            {% for product in product%}
                            <form role="form" enctype=multipart/form-data class=""
action="/edit_product?id={{product.id}}"
                                  method="post">
                <div class="form-group">
                  <label>Product Name</label>
                  <input class="form-control" required="required" name="name"
value="{{product.pName}}" placeholder="Enter name">
                </div>
                <div class="form-group">
                  <label>Price</label>
                  <input class="form-control" required="required" name="price"
value="{{product.price}}" placeholder="Enter price">
                </div>
                <div class="form-group">
                  <label>Description</label>
                  <textarea class="form-control" required="required" name="description" rows="3"
                       placeholder="Write product description">{{product.description}}</textarea>
                </div>
                <div class="form-group">
                  <label>Available</label>
                  <input class="form-control" required="required" value="{{product.available}}"
name="available" placeholder="Available">
                </div>
                <div class="form-group">
                  <label>Category</label>
                  <select class="form-control" id="category_id" onchange="populateList();"
                      name="category">
                    {% if product.category == 'tshirt' %}
                    <option value="tshirt" selected>T-Shirt</option>
                    {% else %}
```

```
        <option value="tshirt">T-Shirt</option>
        {% endif %}
        {% if product.category == 'wallet' %}
        <option value="wallet" selected>Wallet</option>
        {% else %}
        <option value="wallet">Wallet</option>
        {% endif %}
        {% if product.category == 'belt' %}
        <option value="belt" selected>Belt</option>
        {% else %}
        <option value="belt">Belt</option>
        {% endif %}
        {% if product.category == 'shoes' %}
        <option value="shoes" selected>Shoes</option>
        {% else %}
        <option value="shoes">Shoes</option>
        {% endif %}
    </select>
</div>
{% for product_level in product_level %}
<div class="form-group level-container">
    {% if product.category == 'tshirt' %}
    <label>level for T-shirt</label>
    <div class="form-group">
        <label class="checkbox-inline active">
```

```
   {% if product_level.v_shape == 'yes' %}
   <input type="checkbox" checked name="tshirt" value="v_shape">V-Shape
   {% else%}
   <input type="checkbox" name="tshirt" value="v_shape">V-Shape
   {% endif %}
</label>
<label class="checkbox-inline">
   {% if product_level.polo == 'yes' %}
   <input type="checkbox" checked name="tshirt" value="polo">Polo T-shirt
   {% else%}
   <input type="checkbox" name="tshirt" value="polo">Polo T-shirt
   {% endif %}
</label>
<label class="checkbox-inline">
   {% if product_level.clean_text == 'yes' %}
   <input type="checkbox" checked name="tshirt" value="clean_text">Clean Text
   {% else%}
   <input type="checkbox" name="tshirt" value="clean_text">Clean Text
   {% endif %}
</label>
<label class="checkbox-inline">
   {% if product_level.design == 'yes' %}
   <input type="checkbox" checked name="tshirt" value="design">Colorful Design
   {% else%}
   <input type="checkbox" name="tshirt" value="design">Colorful Design
```

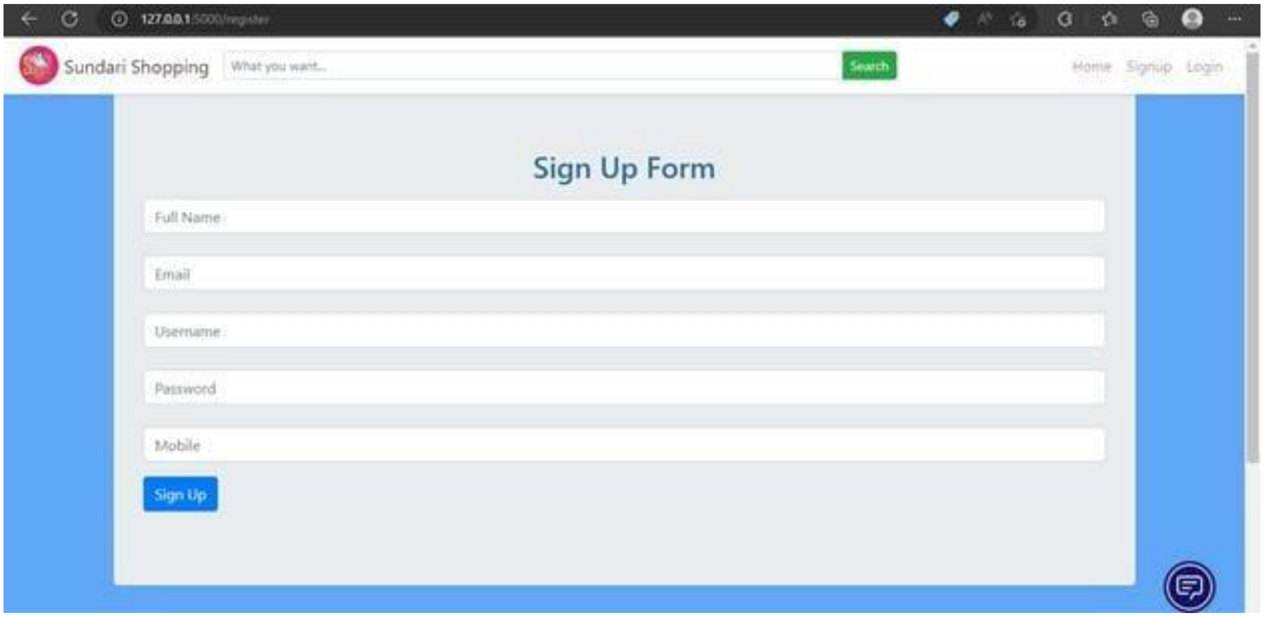
```
        {% endif %}
    </label>
</div>
{% endif %}
{% if product.category == 'wallet' %}
<label>Level for Wallet</label>
<div class="form-group">
    <label class="checkbox-inline">
        {% if product_level.chain == 'yes' %}
        <input type="checkbox" checked name="wallet" value="chain">Chain
        {% else%}
        <input type="checkbox" name="wallet" value="chain">Chain
        {% endif %}
    </label>
    <label class="checkbox-inline">
        {% if product_level.leather == 'yes' %}
        <input type="checkbox" checked name="wallet" value="leather">Leather
        {% else%}
        <input type="checkbox" name="wallet" value="leather">Leather
        {% endif %}
    </label>
    <label class="checkbox-inline">
        {% if product_level.design == 'yes' %}
        <input type="checkbox" checked name="wallet" value="design">Design
        {% else%}
        <input type="checkbox" name="wallet" value="design">Design
        {% endif %}
    </label>
</div>
{% endif %}
{% if product.category == 'belt' %}
<label>Level for Belt</label>
<div class="form-group">
    <label class="checkbox-inline">
        {% if product_level.leather == 'yes' %}
        <input type="checkbox" checked name="belt" value="leather">Leather
        {% else%}
        <input type="checkbox" name="belt" value="leather">Leather
        {% endif %}
    </label>
    <label class="checkbox-inline">
        {% if product_level.hook == 'yes' %}
        <input type="checkbox" checked name="belt" value="hook">Hook
        {% else%}
        <input type="checkbox" name="belt" value="hook">Hook
        {% endif %}
    </label>
    <label class="checkbox-inline">
        {% if product_level.color == 'yes' %}
        <input type="checkbox" checked name="belt" value="color">Color
        {% else%}
        <input type="checkbox" name="belt" value="color">Color
        {% endif %}
    </label>
    <label class="checkbox-inline">
        {% if product_level.design == 'yes' %}
        <input type="checkbox" checked name="belt" value="design">Design
        {% else%}
        <input type="checkbox" name="belt" value="design">Design
        {% endif %}
    </label>
</div>
{% endif %}
{% if product.category == 'shoes' %}
<label>Level for Shoes</label>
<div class="form-group">
    <label class="checkbox-inline">
        {% if product_level.formal == 'yes' %}
        <input type="checkbox" checked name="shoes" value="formal">Formal
        {% else%}
        <input type="checkbox" name="shoes" value="formal">Formal
        {% endif %}
    </label>
    <label class="checkbox-inline">
        {% if product_level.converse == 'yes' %}
```

```
      <input type="checkbox" checked name="shoes" value="converse">Converse
      {% else%}
      <input type="checkbox" name="shoes" value="converse">Converse
      {% endif %}
    </label>
    <label class="checkbox-inline">
      {% if product_level.loafer == 'yes' %}
      <input type="checkbox" checked name="shoes" value="loafer">Loafer
      {% else%}
      <input type="checkbox" name="shoes" value="loafer">Loafer
      {% endif %}
    </label>
    <label class="checkbox-inline">
      {% if product_level.leather == 'yes' %}
      <input type="checkbox" name="shoes" checked value="leather">Leather
      {% else%}
      <input type="checkbox" name="shoes" value="leather">Leather
      {% endif %}
    </label>
  </div>
  {% endif %}
</div>
{% endfor %}
<div class="form-group">
  <label>Item</label>
```

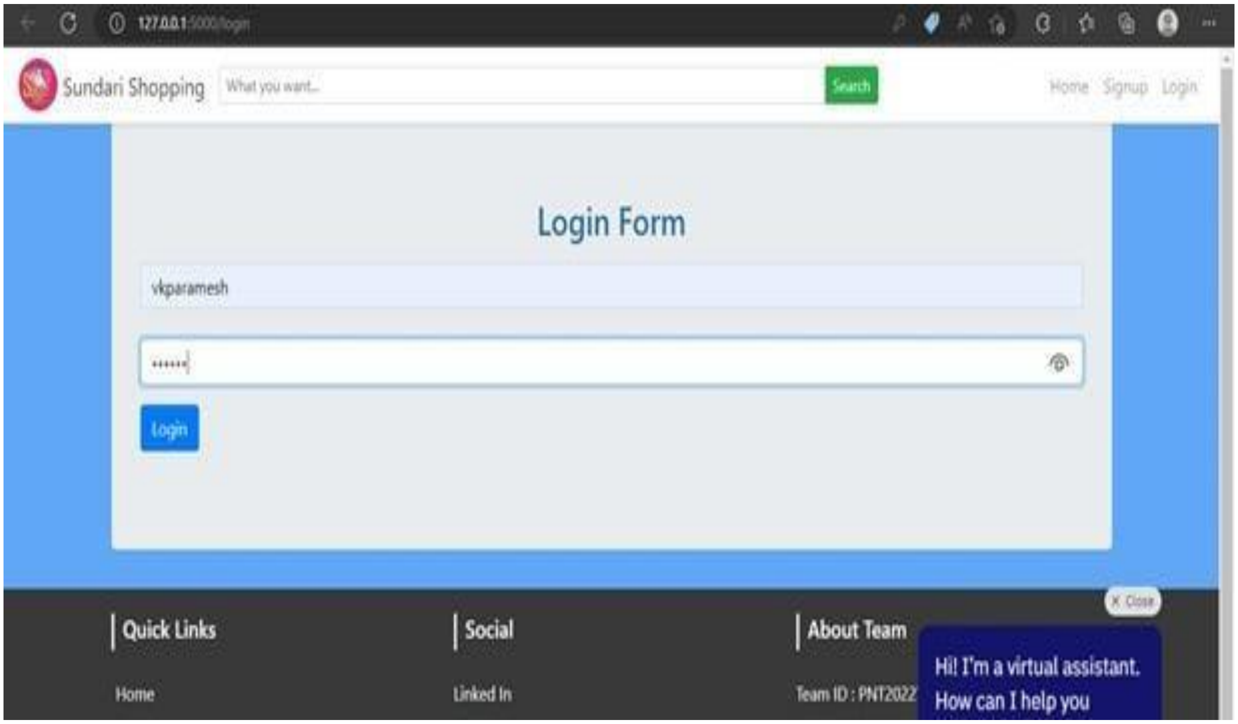
```
                                    <input class="form-control" required="required" name="item"
value="{{product.item}}" placeholder="Ex: watch/shoes">
                                </div>
                                <div class="form-group">
                                    <label>Product Code</label>
                                    <input class="form-control" required="required" value="{{product.pCode}}"
name="code" placeholder="Enter code">
                                </div>
                                <div class="form-group">
                                    <label>Add Image</label>
                                    <input type="file" name="picture">
                                </div>
                                <button type="submit" class="btn btn-default">Submit Button</button>
                            </form>
                            {% endfor %}
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>
</div>
{% endblock %}
```

SCREENSHOTS

Register page



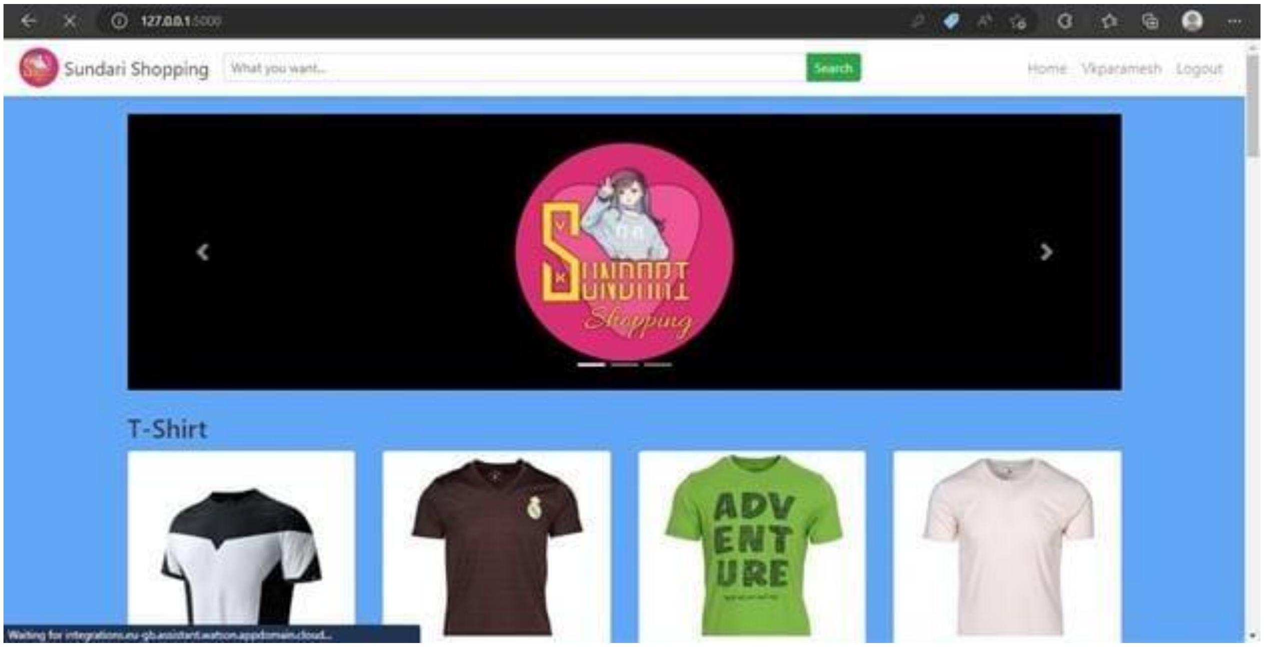
Login Page



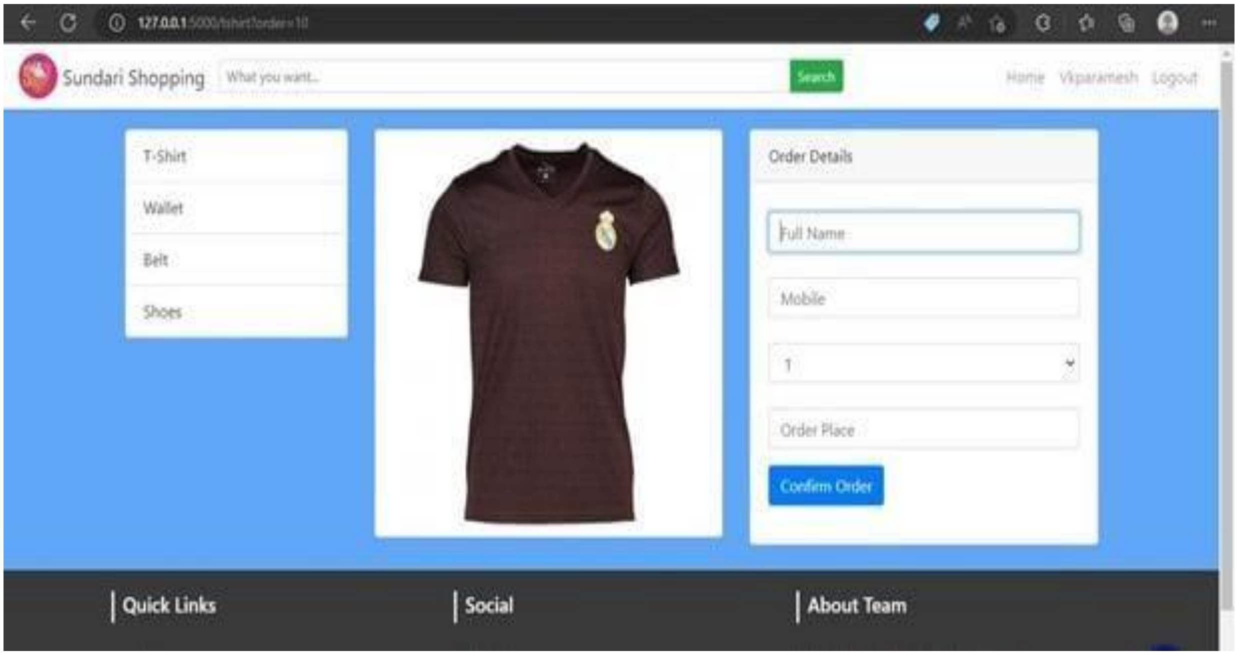
vkparamesh

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

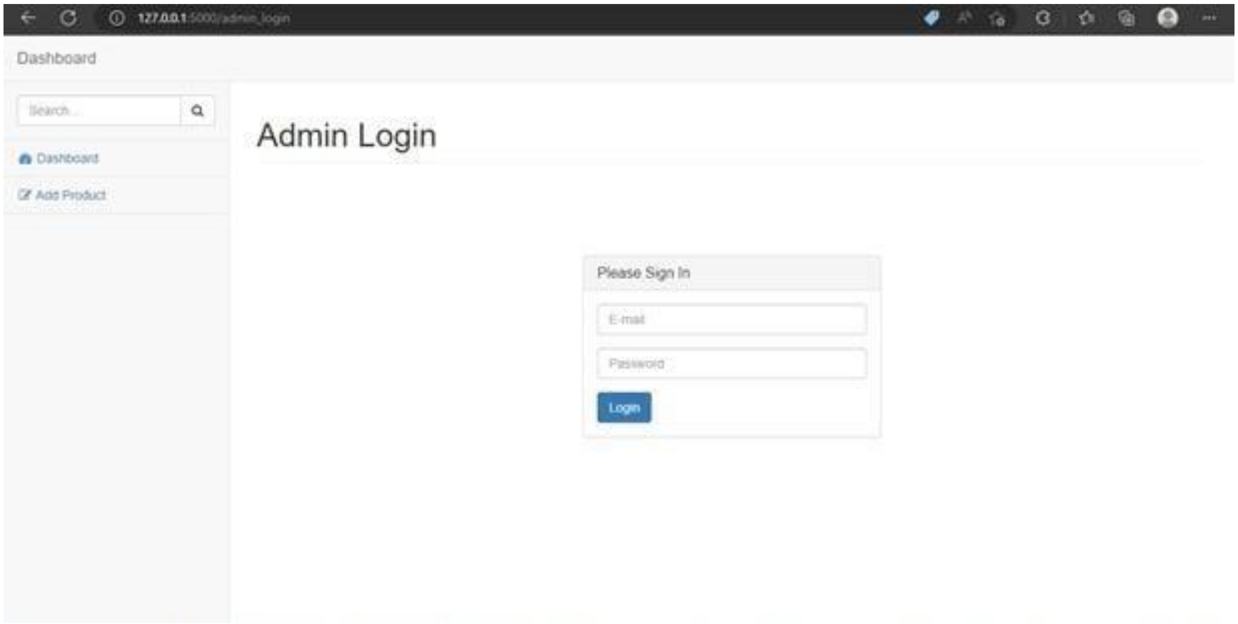
Home page



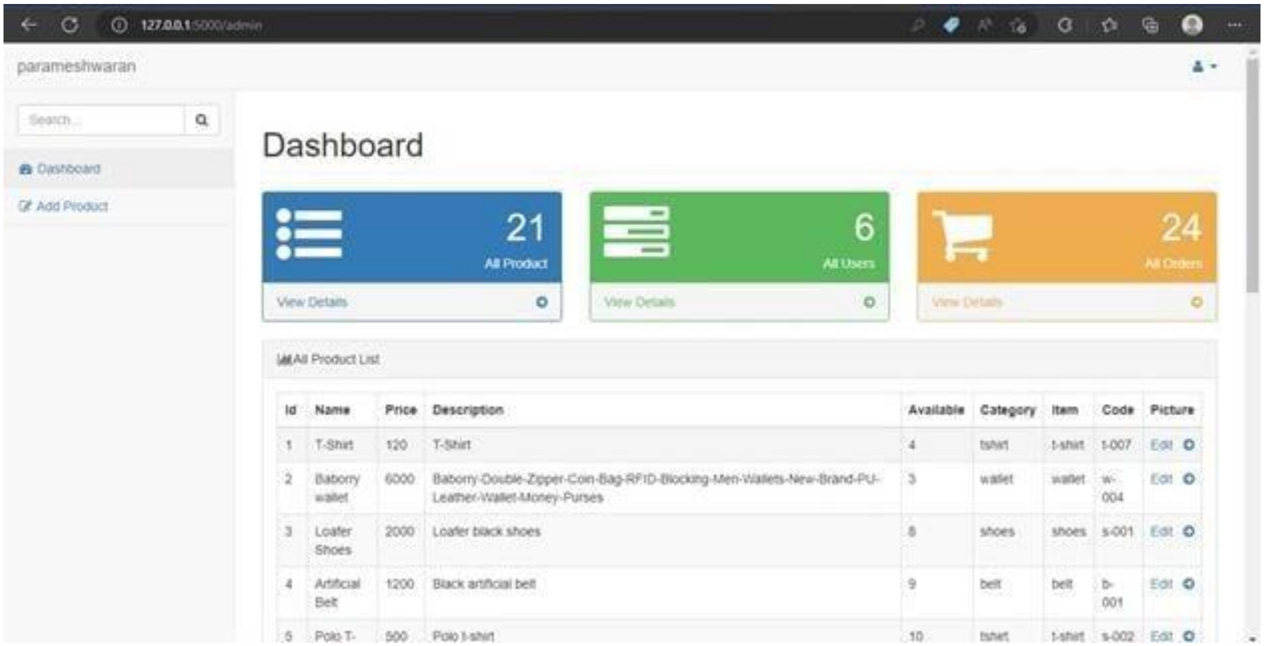
Order Page



Admin Login Page



Admin Dashboard Page

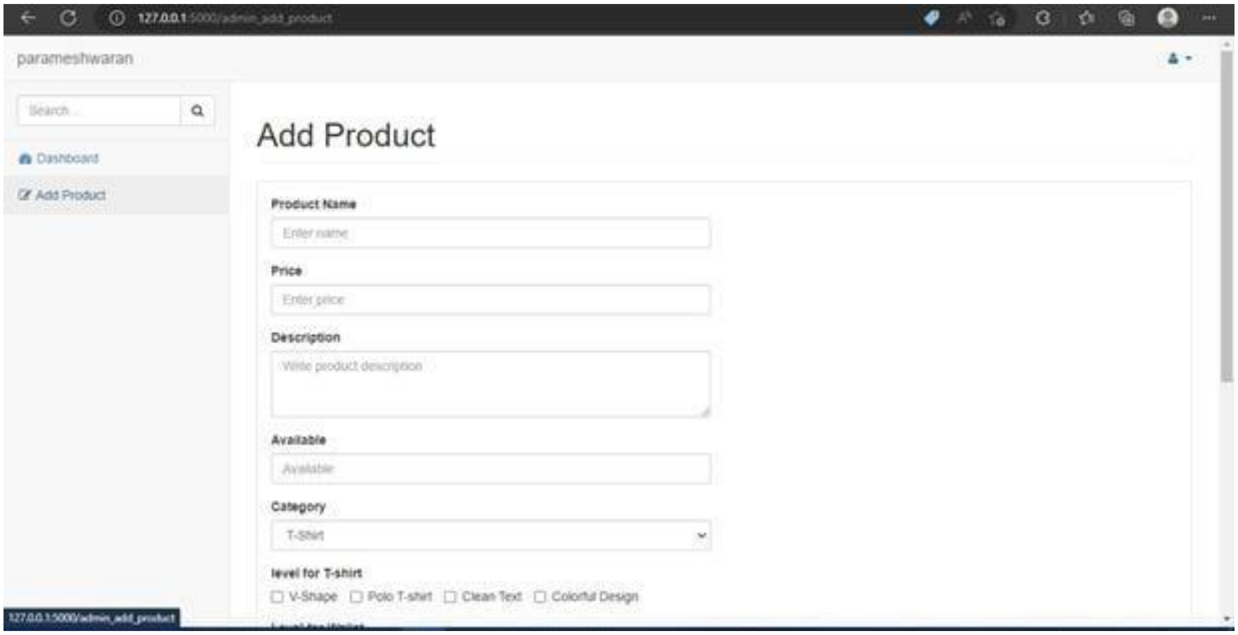


Dashboard

All Product List

Id	Name	Price	Description	Available	Category	Item	Code	Picture
1	T-Shirt	120	T-Shirt	4	tshirt	t-shirt	t-007	Edit
2	Baborry wallet	6000	Baborry-Double-Zipper-Coin-Bag-RFID-Blocking-Men-Wallets-New-Brand-PU-Leather-Wallet-Money-Purses	3	wallet	wallet	w-004	Edit
3	Loafer Shoes	2000	Loafer black shoes	8	shoes	shoes	s-001	Edit
4	Artificial Belt	1200	Black artificial belt	9	belt	belt	b-001	Edit
5	Polo T-	500	Polo t-shirt	10	tshirt	t-shirt	s-002	Edit

Add Product Page



127.0.0.1:5000/admin_add_product
parameshwaran
Search...
Dashboard
Add Product

Add Product

Product Name

Enter name

Price

Enter price

Description

Write product description

Available

Available

Category

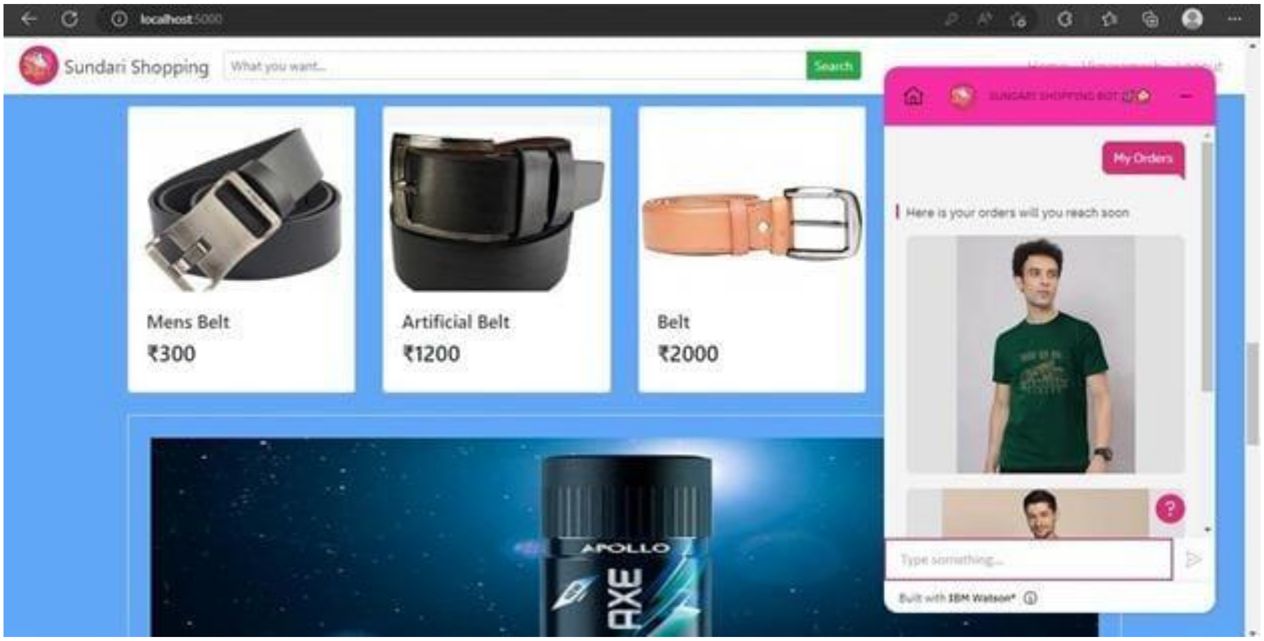
T-Shirt

level for T-shirt

□ V-Shape □ Polo T-shirt □ Clean Text □ Colorful Design

127.0.0.1:5000/admin_add_product

Integrate Chat Bot


localhost:5000

Sundari Shopping

What you want...

Search

SUNDARI SHOPPING BOT

My Orders

Here is your orders will you reach soon

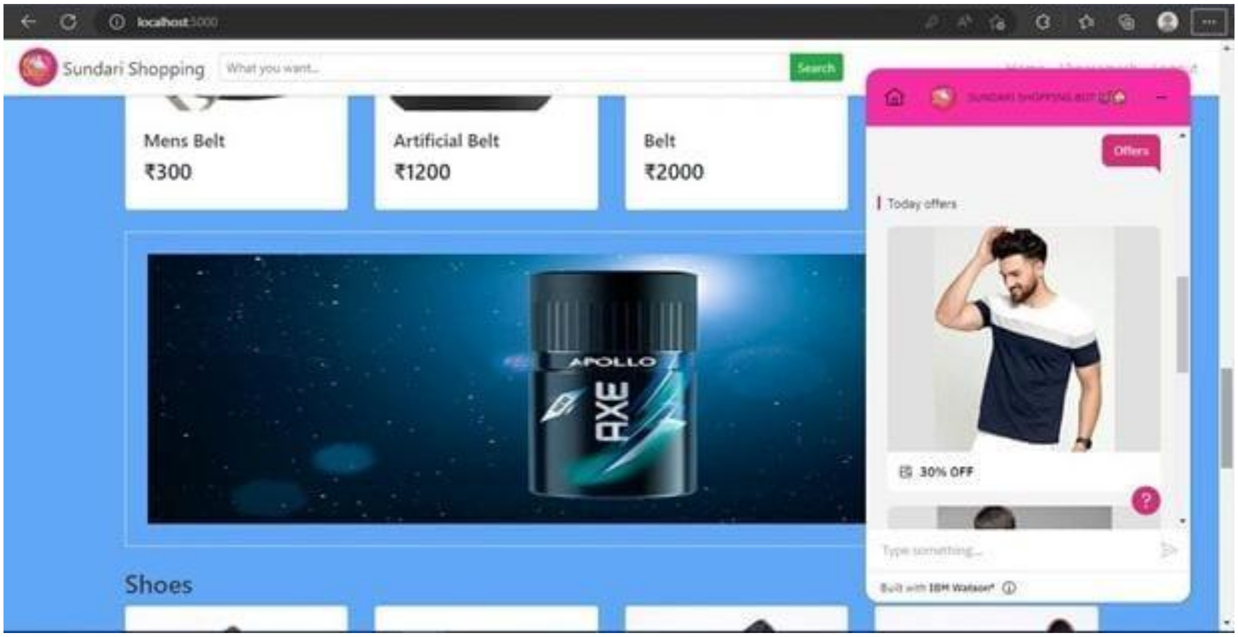
Mens Belt ₹300

Artificial Belt ₹1200

Belt ₹2000

Type something...

Built with IBM Watson®


localhost:5000

Sundari Shopping

What you want...

Search

SUNDARI SHOPPING BOT

Offers

Today offers

30% OFF

Mens Belt ₹300

Artificial Belt ₹1200

Belt ₹2000

Shoes

Type something...

Built with IBM Watson®

13.2 GITHUB & PROJECT DEMO LINK

- Our GitHub Repository Direct Link

  IBM-EPBL/IBM-Project-16763-1659621737: Smart Fashion Recommender Application (github.com)=

- Project Demonstration Video Direct Link

  Smart Fashion Recommender Application - YouTube

  https://youtu.be/Adn54KvpJHU