SMART FASHION RECOMMENDER APPLICATION

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SMART FASHION RECOMMENDER APPLICATION

ABSTRACT

A Web based shopping application projects that act as a central database containing various products in stock along with their title, category and cost. Online Shopping is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing web sites providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming common place. Many internet markets are currently beginning to replace the traditional market. Due to the intense competition in the online market, shoppers expect sellers to deliver exceptional customer care; hence many online shops offer round-the-clock support. If performed manually, this job undoubtedly costs a lot of money. The proposed chatbot system is used as a tool to perform and serve general conversations about the product, stock, orders and payments questions. Capable of answering and solve the users query about the purchase process and many other details regarding to it. The bot must be able to respond promptly and accurately which is applied to the e-commerce application. It helps you to make a decision which product is suitable for you and especially helpful when you have not narrowed down the criteria for the product. Its functions basically like an online automated assistan

1. INTRODUCTION

1.1 PROJECT OVERVIEW

In many modern apps, especially those that provide the user intelligence help, the usage of chatbots is quite common. In reality, these systems frequently have chatbots that can read user inquiries and give the appropriate replies quickly and accurately in order to speed up the support. The use of chatbots as human-computer interactions has gained significant traction. The term "chatbot" refers to a computer software that tries to replicate a written discussion in an effort to briefly deceive a human user. In essence, a chatbot is a conversational agent that can communicate with users in natural language on a certain topic. On the internet, there are several chat bots that are being used for amusement, customer service, education, and other purposes. The goal of the e-commerce chatbot is to provide customers with quick answers to their questions. The user may even search for specific products on the website. It is the graphical user interface. Products are categorized in different Category and each Category has Some Sub Category. And also chatbot system is applied to this shopping website for recommending products and solves the users query regarding to buy the product. However, a chatbot simply symbolises the logical development of a Question Answering system utilising Natural Language Processing from a technical standpoint (NLP).

1.2 PURPOSE

This project is to develop a general purpose online store where any product can be bought from the comfort of home through the Internet. A user visiting the website can see a wide range of products arranged in respective categories. The user may select desired product and view its price. The user may even search for specific products on the website. It is the graphical user interface. Products are categorized in different Category and each Category has Some Sub Category. And also chatbot system is applied to this shopping website for recommending products and solves the users query regarding to buy the product.

2. LITERATURE REVIEW

2.1 EXISTING PROBLEM

2.1.1 TITLE: Smart Chatbot System for E-Commerce Assitance based on AIML, 2020 AUTHOR NAME: Arif Nursetyo

Because the competitive nature of the internet market necessitates outstanding service from sellers to customers, many online companies offer complete 24-hour service. If done manually, this job will undoubtedly cost a lot of money. A chatbot may be used to automatically purchase online. The bot must then be able to respond accurately and quickly. The purpose of this research is to propose an intelligent chatbot system based on Artificial Intelligence Mark-up Language (AIML) that may be utilised as an e-commerce assistant. This Chatbot is used with the Telegram app. AIML will be used to handle user input queries through three stages: parsing, pattern matching, and data crawling. User requests in the AIML process are divided into three categories: general queries, computations, and stock checks. Where the computation request immobilises the order and payment processes. Based on the results of 300 trials, the proposed method can satisfactorily respond to all user requests, with an average response time of 3.4 seconds.

2.1.2 TITLE: An E-Commerce Website based Chatbot, 2020

AUTHOR NAME: Siddharth Gupta

A chatbot, sometimes known as a chatbot, is a computer software that simulates an intelligent interaction with one or more human users using aural or written means. Chatbots can be programmed to make small conversation or to operate as a medium of engagement with users, providing them with solutions to common inquiries. The chatbot understands context and responds based on the message it receives. A chatbot is only one example of AI. Chatbots were initially created for entertainment purposes, and some of them have been designed to pass the Turing Test. This paper discusses a chatbot that runs on a webpage. This chatbot can make interacting with the website easier. The bot communicates with the user in Simple Language. This chatbot is tied to an online store. This website offers a selection of items with varying features. The chatbot assists you in determining which product is best for you. This is especially useful if you haven't narrowed down the product's requirements. It acts essentially as an online automated assistant.

2.1.3 TITLE: The Impact of Anthropomorphism on Consumers' Purchase Decision in

Chatbot Commerce, 2022

AUTHOR NAME: Min Chung Han

Many organisations have used chatbots with human-like speaking abilities to help clients with online buying and customer support; however, it is unclear whether or not their efforts will be rewarded by consumers engaging with them. Will young, digital-native customers utilise Chatbots as much as we predicted? If this is the case, what would motivate them to adopt chatbots? There have been no academic studies investigating customers' attitudes and acceptance of chatbot commerce. This study attempts to answer this issue by investigating the effects of anthropomorphism on customers' perceptions of mobile messenger chatbots, as well as its impact on behavioural decision making. The data demonstrate that anthropomorphism influences consumers' inclinations to purchase through chatbot commerce. Because chatbots are becoming more widespread in online customer care and ecommerce, it is critical to understand young customers' psychological processes for human-like speaking chatbots, as well as their effect on consumers' behavioural intents to purchase things via chatbots. This study attempts to fill a gap in the literature by investigating the influence of anthropomorphism on customers' perceptions of mobile messenger chatbots and its impact on behavioural decision making.

2.1.4 TITLE: The role of the chatbot on customer purchase intention: towards digital relational sales, 2021

AUTHOR NAME: Giulio Maggiore

The goal of this article is to investigate the extent to which a discussion with a chatbot on an official website might alter product value perception and impact customer purchase intention. The study also looks into the function of chatbots in brand familiarity and the impact of prior interactions with chatbots on customer purchasing intentions. Two laboratory tests were carried out to assess the effect of chatbot use on consumer purchase intent. Chatbots on websites increase the value perception of hedonic and utilitarian commodities toward utilitarian and hedonic values, respectively. Chatbots increase brand recognition by minimising the influence of familiarity on client purchase intent. Retailers can use successful chatbots while managing and creating retail websites to increase consumer purchasing intent. Companies should carefully build and manage chatbots, monitoring user participation and customer experience quality to feed a calibrated continuous improvement process on company objectives.

2.1.5 TITLE: Research and Development of an E-commerce with Sales Chatbot, 2021 AUTHOR NAME: Mostaqim Hossain

E-commerce is the process of doing business through computer networks. A person sitting in front of a computer may access all of the internet's resources to buy or sell something. Unlike traditional commerce, which requires a person to travel and collect products, ecommerce has made it easier for people to remove physical labour and save time. This online company management system has also helped merchants save money on initial investments such as storefronts and employees. The goal is to create a sophisticated ecommerce system with a smart chatbot to deliver a user-friendly experience for customers. Customers will save time since the chatbot in the system are easily accessible. We created a real-time chatbot with intelligent features using natural language processing. We attempted to tackle some of the difficulties with our country's existing e-commerce platform on this smart e-commerce website. The registration system, login system, search system, order system, add product system, view product system, order received system, and an interface to connect with the bot are all part of the system.

2.2 REFERENCES

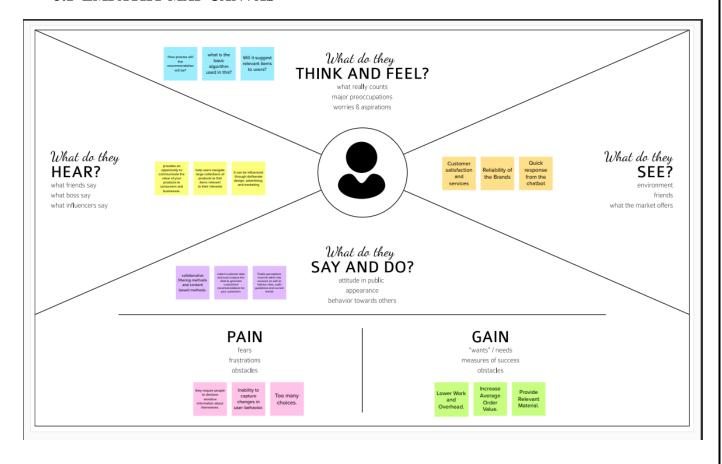
- [1]. Arif Nursetyo, Smart Chatbot System for E-Commerce Assitance based on AIML, 2020
- [2]. Siddharth Gupta, An E-Commerce Website based Chatbot, 2020
- [3]. Min Chung Han, The Impact of Anthropomorphism on Consumers' Purchase Decision in Chatbot Commerce, 2022\
- [4]. Giulio Maggiore, The role of the chatbot on customer purchase intention: towards digital relational sales, 2021
- [5]. Mostaqim Hossain, Research and Development of an E-commerce with Sales Chatbot, 2021

2.3 PROBLEM STATEMENT DEFINITION

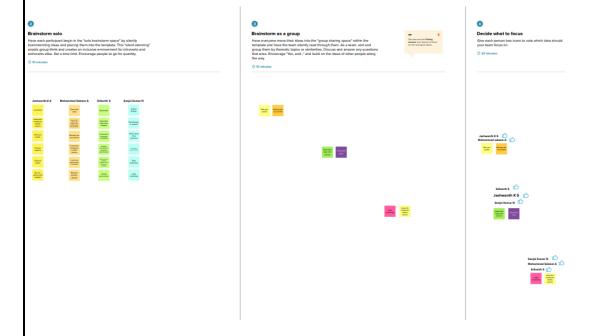
In existing, the system is operated manually. For sales of paper work, the system offers a prepared online store system. When products need to be purchased and a bill has to be made for the sale of items, the indent is prepared. The system requires a lot of paperwork to maintain accessory details, and it might be challenging for users to search for certain accessories in the database. The lack of a bot communication mechanism on the current website makes it difficult for users.

3. IDEATION & PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS



3.2 IDEATION & BRAINSTORMING



3.3 PROPOSED SOLUTION

The proposed system is developed after a detailed study about the requirements requested by the user. Proposed system is a computerized one, where all the limitations of manual system are compensated. Product details of online shopping system have simplified the working information and make a user-friendly environment, where the user is provided with much flexibility to manage effectively. It helps the retailer to generate desirable reports more quickly and also to produce better results. A chatbot system able to respond quickly and promptly and also aids to manage and resolve the customers need.

3.4 PROBLEM SOLUTION FIT

The system requires a lot of paperwork to maintain accessory details, and it might be challenging for users to search for certain accessories in the database. The lack of a bot communication mechanism on the current website makes it difficult for users. A chatbot system is proposed and able to respond quickly and promptly and also aids to manage and resolve the customers need. It helps the retailer to generate desirable reports more quickly and also to produce better results.

4. REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENT

MODULES DESCRIPTION

Framework Creation

In this module, design the framework for e-commerce application to the customer, to get answers without any human assistance. Admin can train keywords with answers for future processing. Chatbots are such kind of computer programs that interact with users using natural languages. For all kind of chatbot the flow is same, though each chatbot is specific in its own area knowledge that is one input from human is matched against the knowledge base of chatbot.

Add Products

In this module, admin can add the product such as cosmetics things and clothes and monitor the details of customers

View Products

In this module, customer can view the products and buy whatever they need and these details are tracked by an admin and stored in the database

Post Questions

In this module, customer can ask query regarding to buy the product to the chatbot system

Recommend Results

In this module, the chatbot system responds and resolves the customer query and based on the customer search, it will recommend the products. This approach helps to customer as well as the admin to improve the efficiency of website and products.

4.2 NON FUNCTIONAL REQUIREMENTS

Usability

The system shall allow the users to access the system with pc using web application. The system uses a web application as an interface. The system is user friendly which makes the system easy

Availability

The system is available 100% for the user and is used 24 hrs a day and 365 days a year. The system shall be operational 24 hours a day and 7 days a week.

Scalability

Scalability is the measure of a system's ability to increase or decrease in performance and cost in response to changes in application and system processing demands.

Security

A security requirement is a statement of needed security functionality that ensures one of many different security properties of software is being satisfied.

Performance

The information is refreshed depending upon whether some updates have occurred or not in the application. The system shall respond to the member in not less than two seconds from the time of the request submittal. The system shall be allowed to take more time when doing large processing jobs. Responses to view information shall take no longer than 5 seconds to appear on the screen.

Reliability

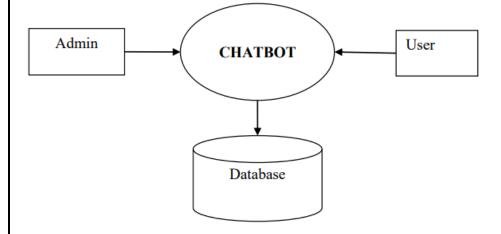
The system has to be 100% reliable due to the importance of data and the damages that can be caused by incorrect or incomplete data. The system will run 7 days a week. 24 hours a day.

5. PROJECT DESIGN

5.1 DATA FLOW DIAGRAMS

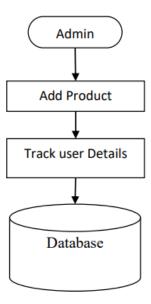
LEVEL 0

The Level 0 DFD shows how the system is divided into 'sub-systems' (processes), each of which deals with one or more of the data flows to or from an external agent, and which together provide all of the functionality of the system as a whole. It also identifies internal data stores that must be present in order for the system to do its job, and shows the flow of data between the various parts of the system.



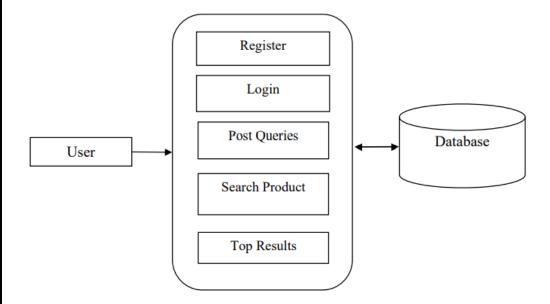
LEVEL 1

The next stage is to create the Level 1 Data Flow Diagram. This highlights the main functions carried out by the system. As a rule, to describe the system was using between two and seven functions - two being a simple system and seven being a complicated system. This enables us to keep the model manageable on screen or paper.



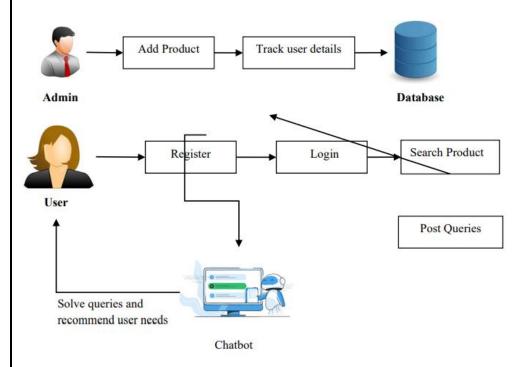
LEVEL 2

A Data Flow Diagram (DFD) tracks processes and their data paths within the business or system boundary under investigation. A DFD defines each domain boundary and illustrates the logical movement and transformation of data within the defined boundary. The diagram shows 'what' input data enters the domain, 'what' logical processes the domain applies to that data, and 'what' output data leaves the domain. Essentially, a DFD is a tool for process modelling and one of the oldest.



5.2 SOLUTION & TECHNICAL ARCHITECTURE

A system architecture or systems architecture is the conceptual model that defines the structure, behavior, and more views of a system. An architecture description is a formal description and representation of a system, organized in a way that supports reasoning about the structures and behaviors of the system. System architecture can comprise system components, the externally visible properties of those components, the relationships (e.g. the behavior) between them. It can provide a plan from which products can be procured, and systems developed, that will work together to implement the overall system. There have been efforts to formalize languages to describe system architecture; collectively these are called architecture description languages (ADLs).



5.3 USER STORIES

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Priority
Sprint-1	User Panel	USN-1	The user will login into the websiteand go through the products available on the website	High
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.	
Sprint-3	Chat Bot	USN-3	The user can directly talk to Chatbot regarding the products. Get the recommendations based on information provided by theuser.	High
Sprint-4	final delivery	USN-4	Container of applications using dockerkubernetes and deployment the application. Create the documentationand final submit the application	High

6. PROJECT PLANNING & SCHEDULING

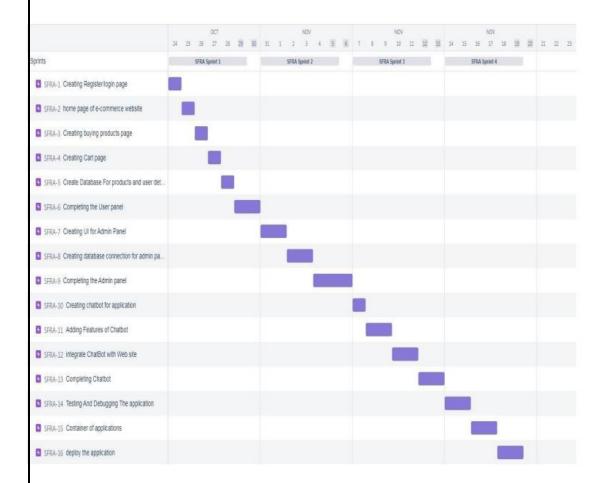
6.1 SPRINT PLANNING & ESTIMATION

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

6.2 SPRINT DELIVERY SCHEDULE

Sprint	Functional Requirement (Epic)	•	User Story / Task	Priority
Sprint-1	User Panel	USN-1	The user will login into the website and go through the products available on the website	High
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.	J
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.	High
Sprint-4	final delivery	USN-4	Container of applications using docker kubernetes and deployment the application. Create the documentation and final submit the application	J

6.3 BurnDown Chart



7. CODING & SOLUTIONING

7.1 FEATURE 1

App.py (code):

```
from flask import Flask, render_template, flash, request, session
            from flask import Flask, render_template, request, jsonify
            import datetime
            import re
      import ibm_db
      import pandas
      import ibm db dbi
      from sqlalchemy import create_engine
      engine = create_engine('sqlite://',
                             echo = False)
      dsn hostname = "2d46b6b4-cbf6-40eb-bbce- 6251e6b
      a300.bs2io90l08kqb1od8lcg.databases.appdomain.cloud"
     dsn_uid = "nzb86829"
      dsn_pwd = "vPGZUY3TCCHJuxx9"
     dsn_driver = "{IBM DB2 ODBC DRIVER}"
     dsn_database = "BLUDB"
     dsn_port = "32328"
     dsn protocol = "TCPIP"
      dsn security = "SSL"
      dsn = (
          "DRIVER={0};"
          "DATABASE={1};"
          "HOSTNAME={2};"
          "PORT={3};"
          "PROTOCOL={4};"
          "UID={5};"
          "PWD={6};"
          "SECURITY={7};").format(dsn_driver, dsn_database, dsn_hostname, dsn_port, dsn_protocol
      dsn_uid, dsn_pwd,dsn_security)
      try:
          conn = ibm_db.connect(dsn, "", "")
          print ("Connected to database: ", dsn_database, "as user: ", dsn_uid, "on host: ",
      dsn hostname)
```

```
except:
    print ("Unable to connect: ", ibm_db.conn_errormsg() )

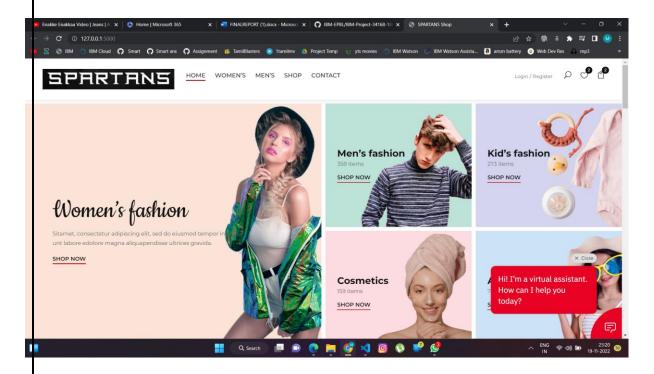
app = Flask(__name__)
app.config.from_object(__name__)
app.config['SECRET_KEY'] = '7d441f27d441f27567d441f2b6176a'
```

```
@app.route("/")
def homepage():
    return render_template('client/index.html')
@app.route("/AdminLogin")
def AdminLogin():
    return render_template('AdminLogin.html')
@app.route("/NewUser")
def NewUser():
    return render_template('NewUser.html')
@app.route("/UserLogin")
def UserLogin():
 return render_template('client/Login.html')
@app.route("/AdminHome")
def AdminHome():
    conn = ibm_db.connect(dsn, "", "")
    pd_conn = ibm_db_dbi.Connection(conn)
    selectQuery = "SELECT * from regtb "
    dataframe = pandas.read_sql(selectQuery, pd_conn)
    dataframe.to_sql('Employee_Data',
                     con=engine,
                     if_exists='append')
    # run a sql query
    data = engine.execute("SELECT * FROM Employee_Data").fetchall()
    return render_template('AdminHome.html', data=data)
```

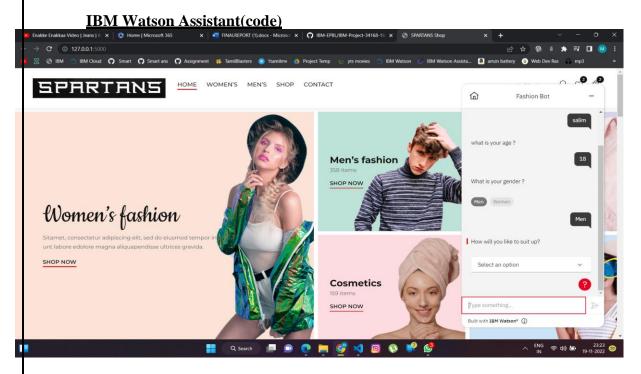
```
@app.route("/NewProduct")
      def NewProduct():
          return render template('NewProduct.html')
      @app.route("/ProductInfo")
      def ProductInfo():
          conn = ibm_db.connect(dsn, "", "")
          pd_conn = ibm_db_dbi.Connection(conn)
          selectQuery = "SELECT * from protb "
          dataframe = pandas.read sql(selectQuery, pd conn)
                     Employee_Data").fetchall())
dataframe.to_s
ql('Employee_D
ata',
                     @app.route("/SalesInfo")
                     def SalesInfo():
con=engine,
                         return render_template('SalesInfo.html')
if_exists='app
end')
                     @app.route("/Search")
                     def Search():
run a sql
                         conn = ibm_db.connect(dsn, "", "")
query
                          pd_conn = ibm_db_dbi.Connection(conn)
print(engine.e
xecute("SELECT
                          selectQuery = "SELECT * from protb "
 FROM
Employee_Data"
                         dataframe = pandas.read_sql(selectQuery, pd_conn)
.fetchall())
                         dataframe.to_sql('Employee_Data',
                                           con=engine,
                                           if_exists='append')
return
render_templat
 ('ProductInfo
html',
                         # run a sql query
                         print(engine.execute("SELECT * FROM Employee_Data").fetchall())
data=engine.ex
ecute("SELECT
 FROM
```

```
viewproduct():
return
render_templat
e('ViewProduct
                searc = request.form['subcat']
html',
                     conn = ibm_db.connect(dsn, "", "")
data=engine.ex
                       pd_conn = ibm_db_dbi.Connection(conn)
ecute("SELECT
 FROM
     Employee
 Data").fetcha
                        selectQuery = "SELECT * from protb where SubCategory like '%" + searc +
           11%1 11
1())
                        dataframe = pandas.read_sql(selectQuery, pd_conn)
te("/viewprodu
                        dataframe.to_sql('Employee_Data',
 ethods=['GET'
                                         con=engine,
 'POST'])
                                         if_exists='append')
     def
```

Front page (output):



7.2 FEATURE 2



```
<!DOCTYPE html>
<html lang="zxx">
<head>
   <meta charset="UTF-8">
   <!-- <meta name="description" content="Ashion Template"> -->
   <!-- <meta name="keywords" content="Ashion, unica, creative, html"> -->
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <meta http-equiv="X-UA-Compatible" content="ie=edge">
   <title>SPARTANS Shop</title>
   <!-- Google Font -->
   <link href="https://fonts.googleapis.com/css2?family=Cookie&display=swap" rel="stylesheet">
   k
 ref="https://fonts.googleapis.com/css2?family=Montserrat:wght@400;500;600;700;800;900&display=swa
   rel="stylesheet">
   <!-- Css Styles -->
   <link rel="stylesheet" href="{{ url_for('static', filename= 'css/bootstrap.min.css') }}">
   <link rel="stylesheet" href="{{ url_for('static', filename= 'css/elegant-icons.css') }}">
   <link rel="stylesheet" href="{{ url_for('static', filename= 'css/font-awesome.min.css') }}";</pre>
   <link rel="stylesheet" href="{{ url for('static', filename= 'css/jquery-ui.min.css') }}">
   <link rel="stylesheet" href="{{ url_for('static', filename= 'css/magnific-popup.css') }}">
   <link rel="stylesheet" href="{{ url_for('static', filename= 'css/owl.carousel.min.css') }}"</pre>
   <link rel="stylesheet" href="{{ url for('static', filename= 'css/slicknav.min.css') }}">
   <link rel="stylesheet" href="{{ url for('static', filename= 'css/style.css') }}">
</head>
<body>
   <!-- Page Preloder -->
   <!-- <div id="preloder">
       <div class="loader"></div>
   </div> -->
   <!-- Offcanvas Menu Begin -->
   <div class="offcanvas-menu-overlay"></div>
   <div class="offcanvas-menu-wrapper">
       <div class="offcanvas close">+</div>
       27
```

```
<span class="icon search search-switch"></span>
         <a href="#"><span class="icon_heart_alt"></span>
             <div class="tip">2</div>
         </a>
         <a href="#"><span class="icon bag alt"></span>
             <div class="tip">2</div>
         </a>
      <div class="offcanvas__logo">
         <a href="./index.html"><img src="{{ url_for('static', filename= 'img/logo.png') }}"</pre>
lt=""></a>
      </div>
      <div id="mobile-menu-wrap"></div>
      <div class="offcanvas auth">
         <a href="/login">Login</a>
         <a href="/register">Register</a>
      </div>
  </div>
  <!-- Offcanvas Menu End -->
  <!-- Header Section Begin -->
  <header class="header">
      <div class="container-fluid">
         <div class="row">
             <div class="col-xl-3 col-lg-2">
                 <div class="header logo">
                    <a href="./index.html"><img src="{{ url_for('static', filename=</pre>
img/logo.png') }}" alt=""></a>
                 </div>
             </div>
             <div class="col-x1-6 col-lg-7">
                 <nav class="header menu">
                    <l
                        <a href="./index.html">Home</a>
                        <a href="#">Women's</a>
                        <a href="#">Men's</a>
                        <a href="">Shop</a>
                        <!-- <li><a href="#">Pages</a>
                           <a href="./product-details.html">Product Details</a>
                               <a href="./shop-cart.html">Shop Cart</a>
                               <a href="./checkout.html">Checkout</a>
                               <a href="./blog-details.html">Blog Details</a>
                           <!-- <li><a href="./blog.html">Blog</a> -->
                        <a href="">Contact</a>
                    </nav>
                                         28
```

```
<a href="#"><span class="icon_bag_alt"></span>
                               <div class="tip">2</div>
                           </a>
                       </div>
               </div>
          </div>
           <div class="canvas__open">
               <i class="fa fa-bars"></i></i>
          </div>
       </div>
  </header>
  <!-- Header Section End -->
  <!-- Categories Section Begin -->
  <section class="categories">
       <div class="container-fluid">
          <div class="row">
               <div class="col-lg-6 p-0">
                   <div class="categories__item categories__large__item set-bg categories-img"</pre>
                   <div class="categories text">
                       <h1>Women's fashion</h1>
                       Sitamet, consectetur adipiscing elit, sed do eiusmod tempor incidid-unt
abore
                       edolore magna aliquapendisse ultrices gravida.
                       <a href="#">Shop now</a>
                   </div>
               </div>
          </div>
           <div class="col-lg-6">
               <div class="row">
                   <div class="col-lg-6 col-md-6 col-sm-6 p-0">
                       <div class="categories item set-bg categories-img2" >
                           <div class="categories text">
                               <h4>Men's fashion</h4>
                               \langle p \rangle358 items\langle p \rangle
                               <a href="#">Shop now</a>
                           </div>
                       </div>
                   </div>
                   <div class="col-lg-6 col-md-6 col-sm-6 p-0">
                       <div class="categories item set-bg categories-img3">
                           <div class="categories__text">
                               <h4>Kid's fashion</h4>
                               273 items
                               <a href="#">Shop now</a>
                           </div>
                       </div>
```

```
</div>
                <div class="col-lg-6 col-md-6 col-sm-6 p-0">
                    <div class="categories__item set-bg categories-img4" >
                       <div class="categories__text">
                          <h4>Cosmetics</h4>
                          159 items
                          <a href="#">Shop now</a>
                       </div>
                    </div>
                </div>
                <div class="col-lg-6 col-md-6 col-sm-6 p-0">
                    <div class="categories item set-bg categories-img5">
                       <div class="categories text">
                          <h4>Accessories</h4>
                          \langle p \rangle 792 \text{ items} \langle /p \rangle
                          <a href="#">Shop now</a>
                       </div>
                   </div>
                </div>
             </div>
         </div>
      </div>
   </div>
/section>
<!-- Categories Section End -->
<!-- Product Section Begin -->
<section class="product spad">
   <div class="container">
      <div class="row">
         <div class="col-lg-4 col-md-4">
             <div class="section-title">
                <h4>New product</h4>
             </div>
         </div>
         <div class="col-lg-8 col-md-8">
             All
                Women's
                Men's
                Kid's
                Accessories
                Cosmetics
             </div>
      </div>
      <div class="row property gallery">
         <div class="col-lg-3 col-md-4 col-sm-6 mix women">
                                       31
```

```
<div class="product__item">
                   <div class="product__item__pic set-bg product-img" >
                       <div class="label new">New</div>
                       <a
                                                                      <a href="#"><span</a>
                                          class="icon_heart_alt"></span></a>
class="image-popup"><span
class="arrow_expand"></span></a>
                                                                      <a href="#"><span</a>
                                          class="icon_bag_alt"></span></a>
                           <a
href="#"><span
                                                                  class="icon heart alt"></span></a>
                                                              </div>
                           <a
                                                              <div class="product item text":</pre>
href="#"><span
                                                                  <h6><a href="#">Flowy striped
class="icon bag alt"></span></a>
                                         skirt</a></h6>
                       <div class="rating">
                                                                      <i class="fa fa-star"></i>
                   </div>
                                                                      <i class="fa fa-star"></i></i>
                   <div
class="product__item__text">
                                                                      <i class="fa fa-star"></i></i>
                                                                      <i class="fa fa-star"></i></i>
                       <h6><a
href="#">Buttons tweed blazer</a></h6>
                                                                      <i class="fa fa-star"></i></i></or>
                       <div
                                                                  </div>
class="rating">
                                                                  <div class="product__price">Fs.
                           <i class="fa</pre>
                                          490</div>
fa-star"></i>
                                                              </div>
                                                          </div>
                           <i class="fa</pre>
fa-star"></i>
                                                      </div>
                           <i class="fa</pre>
                                                      <div class="col-lg-3 col-md-4 col-sm-6 mix</pre>
fa-star"></i>
                                          accessories">
                           <i class="fa
                                                          <div class="product item">
fa-star"></i>
                                                              <div class="product item pic set-</pre>
                           <i class="fa
                                          bg product-img3" >
fa-star"></i>
                                                                  <div class="label stockout">cut
                                          of stock</div>
                       </div>
                                                                  class="product__price">Rs. 590</div>
                                                                      <a class="image-
                   </div>
                                          popup"><span class="arrow_expand"></span></a>
               </div>
                                                                      <a href="#"><span</a>
           </div>
                                          class="icon_heart_alt"></span></a>
           <div class="col-lg-3 col-md-4"
                                                                      <a href="#"><span</a>
                                          class="icon_bag_alt"></span></a>
col-sm-6 mix men">
                                                                  <div
class="product__item">
                                                              </div>
                                                              <div class="product item text":</pre>
                   <div
class="product__item__pic set-bg product-_
                                                                  <h6><a href="#">Cotton T-
img2" >
                                          Shirt</a></h6>
                                                                  <div class="rating">
                       <l
class="product_hover">
                                                                      <i class="fa fa-star"></i></i>
                                                                      <i class="fa fa-star"></i></i>
                           <a
class="image-popup"><span
                                                                      <i class="fa fa-star"></i></i>
class="arrow expand"></span></a>
                                                                      <i class="fa fa-star"></i></i>
                                              32
```

```
<i class="fa class="rating">
fa-star"></i>
                                                                     <i class="fa fa-star"></i></i>
                                                                     <i class="fa fa-star"></i></i>
                       </div>
                                                                     <i class="fa fa-star"></i></i>
                       <div
class="product__price">Rs. 590</div>
                                                                     <i class="fa fa-star"></i></i>
                   </div>
                                                                     <i class="fa fa-star"></i></i>
               </div>
                                                                 </div>
           </div>
                                                                 <div class="product__price">Fs.
           <div class="col-lg-3 col-md-4 590</div>
col-sm-6 mix cosmetic">
                                                             </div>
               <div
                                                         </div>
class="product__item">
                                                     </div>
                   <div
                                                     <div class="col-lg-3 col-md-4 col-sm-6 mix</pre>
class="product item pic set-bg product- kid">
img4" >
                                                         <div class="product item">
                                                             <div class="product__item__pic set-</pre>
                       <l
class="product hover">
                                          bg product-img5">
                                                                 <1i><a
class="image-popup"><span</pre>
                                                                     <a class="image-
                                         popup"><span class="arrow_expand"></span></a>
class="arrow expand"></span></a>
                           <1i><a
                                                                     <a href="#"><span</a>
href="#"><span
                                          class="icon_heart_alt"></span></a>
class="icon heart alt"></span></a>
                                                                     <a href="#"><span</a>
                                          class="icon_bag_alt"></span></a>
                           <a
href="#"><span
                                                                 class="icon_bag_alt"></span></a>
                                                             </div>
                       <div class="product item text":</pre>
                   </div>
                                                                 <h6><a href="#">Fit micro
                   <div
                                         corduroy shirt</a></h6>
class="product__item__text">
                                                                 <div class="rating">
                                                                     <i class="fa fa-star"></i></i>
href="#">Slim striped pocket
                                                                     <i class="fa fa-star"></i></i>
shirt</a></h6>
                                                                     <i class="fa fa-star"></i></i>
                       <div
                                                                     <i class="fa fa-star"></i></i>
                           <i class="fa fa-star"></i></i>
                       <div class="product__price">Rs. 590</div>
                   </div>
               </div>
           </div>
           <div class="col-lg-3 col-md-4 col-sm-6 mix women men kid accessories cosmetic">
               <div class="product item sale">
                   <div class="product__item__pic set-bg product-img6" >
                       <div class="label sale">Sale</div>
                       <a class="image-popup"><span class="arrow expand"></span></a>
                           <a href="#"><span class="icon_heart_alt"></span></a>
                           <a href="#"><span class="icon bag alt"></span></a>
                       33
```

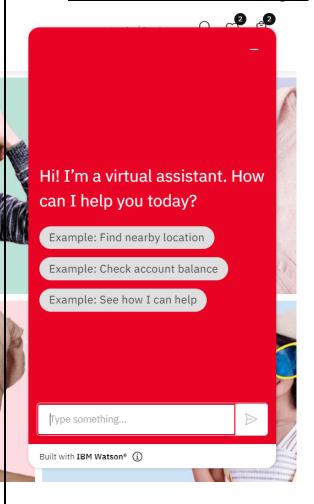
```
</div>
                  <div class="product__item__text">
                      <h6><a href="#">Tropical Kimono</a></h6>
                      <div class="rating">
                          <i class="fa fa-star"></i></i>
                          <i class="fa fa-star"></i></i>
                          <i class="fa fa-star"></i></i>
                          <i class="fa fa-star"></i></i>
                          <i class="fa fa-star"></i></i>
                      </div>
                      <div class="product price">Rs. 490 <span>Rs. 590</span></div>
              </div>
          </div>
          <div class="col-lg-3 col-md-4 col-sm-6 mix women men kid accessories cosmetic">
              <div class="product item">
                  <div class="product__item__pic set-bg product-img7" >
                      <a class="image-popup"><span class="arrow expand"></span></a>
                          <a href="#"><span class="icon_heart_alt"></span></a>
                          <a href="#"><span class="icon bag alt"></span></a>
                      </div>
                  <div class="product item text">
                      <h6><a href="#">Contrasting sunglasses</a></h6>
                      <div class="rating">
                          <i class="fa fa-star"></i></i>
                          <i class="fa fa-star"></i></i>
                          <i class="fa fa-star"></i></i>
                          <i class="fa fa-star"></i></i>
                          <i class="fa fa-star"></i></i>
                      </div>
                      <div class="product price">Rs. 590</div>
                  </div>
              </div>
          </div>
          <div class="col-lg-3 col-md-4 col-sm-6 mix women men kid accessories cosmetic">
              <div class="product__item sale">
                  <div class="product item pic set-bg product-img8">
                      <div class="label">Sale</div>
                      <a class="image-popup"><span</p>
lass="arrow expand"></span></a>
                          <a href="#"><span class="icon heart alt"></span></a>
                          <a href="#"><span class="icon_bag_alt"></span></a>
                      </div>
                  <div class="product item text">
                      <h6><a href="#">Water resistant backpack</a></h6>
                                            34
```

```
<div class="rating">
                             <i class="fa fa-star"></i></i>
                             <i class="fa fa-star"></i></i>
                             <i class="fa fa-star"></i></i>
                             <i class="fa fa-star"></i></i>
                             <i class="fa fa-star"></i></i>
                        </div>
                        <div class="product__price">Rs. 490 <span>Rs. 590</span></div>
                    </div>
                </div>
            </div>
        </div>
   </div>
</re></re>
 !-- Product Section End -->
<!-- Banner Section Begin -->
<section class="banner set-bg banner-img" >
   <div class="container">
        <div class="row">
            <div class="col-xl-7 col-lg-8 m-auto">
                <div class="banner slider owl-carousel">
                    <div class="banner__item">
                        <div class="banner text">
                             <span>The Chloe Collection</pan>
                             <h1>The Project Jacket</h1>
                             <a href="#">Shop now</a>
                        </div>
                    </div>
                    <div class="banner item">
                        <div class="banner__text">
                             <span>The Chloe Collection</pan>
                             <h1>The Project Jacket</h1>
                            <a href="#">Shop now</a>
                        </div>
                    </div>
```

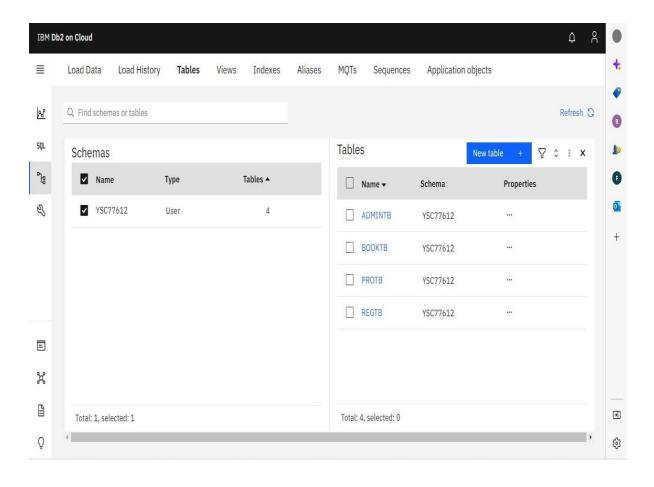
```
<div class="banner__item">
                        <div class="banner text">
                             <span>The Chloe Collection
                             <h1>The Project Jacket</h1>
                             <a href="#">Shop now</a>
                        </div>
                    </div>
                </div>
            </div>
        </div>
   </div>
 /section>
 !-- Banner Section End -->
<!-- Trend Section Begin -->
<section class="trend spad">
   <div class="container">
        <div class="row">
            <div class="col-lg-4 col-md-4 col-sm-6">
                <div class="trend__content">
                    <div class="section-title">
                        <h4>Hot Trend</h4>
                    </div>
                    <div class="trend item">
                        <div class="trend__item__pic">
                             <img src="{{ url_for('static', filename= 'img/trend/ht-1.jpg') }}"</pre>
alt="">
                        </div>
                        <div class="trend item text">
                             <h6>Chain bucket bag</h6>
                             <div class="rating">
                                 <i class="fa fa-star"></i></i>
                                 <i class="fa fa-star"></i></i>
                                 <i class="fa fa-star"></i></i>
                                 <i class="fa fa-star"></i></i>
                                 <i class="fa fa-star"></i></i>
                            </div>
                             <div class="product price">Rs. 590</div>
                        </div>
                    </div>
                    <div class="trend item">
                        <div class="trend item pic">
                             <img src="{{ url for('static', filename= 'img/trend/ht-2.jpg') }}"</pre>
alt="">
                        <div class="trend__item__text">
                            <h6>Pendant earrings</h6>
                                                 36
```

```
<div class="rating">
                                  <i class="fa fa-star"></i></i>
                                  <i class="fa fa-star"></i></i>
                                  <i class="fa fa-star"></i></i>
                                  <i class="fa fa-star"></i></i>
                                  <i class="fa fa-star"></i></i>
                              </div>
                              <div class="product price">Rs. 590</div>
                         </div>
                     </div>
                     <div class="trend__item">
                         <div class="trend__item__pic">
                              <img src="{{ url_for('static', filename= 'img/trend/ht-3.jpg') }}"</pre>
lt="">
                         </div>
                         <div class="trend__item__text">
                              <h6>Cotton T-Shirt</h6>
                              <div class="rating">
                                  <i class="fa fa-star"></i></i>
                                  <i class="fa fa-star"></i></i>
                                  <i class="fa fa-star"></i></i>
                                  <i class="fa fa-star"></i></i>
                                  <i class="fa fa-star"></i></i>
                              </div>
                              <div class="product__price">Rs. 590</div>
                         </div>
                     </div>
                </div>
            </div>
            <div class="col-lg-4 col-md-4 col-sm-6">
                 <div class="trend__content">
                     <div class="section-title">
                         <h4>Best seller</h4>
                     </div>
                     <div class="trend item">
                         <div class="trend__item__pic">
                              <img src="{{ url_for('static', filename= 'img/trend/bs-1.jpg') }}"</pre>
alt="">
                         </div>
                         <div class="trend item text">
                              <h6>Cotton T-Shirt</h6>
                              <div class="rating">
                                  <i class="fa fa-star"></i></i>
                                  <i class="fa fa-star"></i></i>
                                  <i class="fa fa-star"></i></i>
                                  <i class="fa fa-star"></i></i>
                                  <i class="fa fa-star"></i></i>
                              </div>
                                                   37
```

IBM Watson chat assistant(output)



7.3 DATABASE SCHEMA



8. TESTING

8.1 TEST CASES

A test case has components that describe input, action and an expected response, in order to determine if a feature of an application is working correctly. A test case is a set of instructions on "HOW" to validate a particular test objective/target, which when followed will tell us if the expected behavior of the system is satisfied or not.

Characteristics of a good test case:

• Accurate: Exacts the purpose.

• Economical: No unnecessary steps or words.

• Traceable: Capable of being traced to requirements.

• Repeatable: Can be used to perform the test over and over.

• Reusable: Can be reused if necessary.

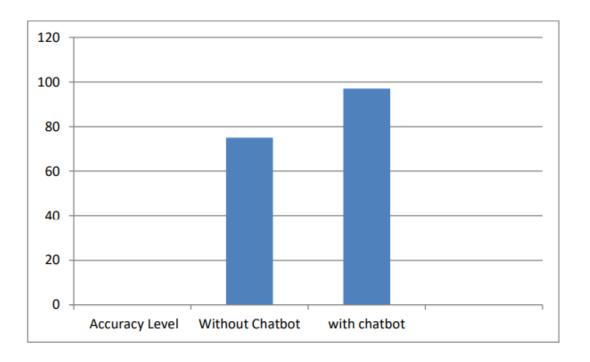
S.NO	Scenario	Input	Excepted output	Actual output
1	User login	User name and	Login	Login success.
		password		
2	Search Product	Show product list	Purchase	User details are
			successfully	stored in a
				database.
3	Post Queries	Ask questions to	Get result from	Details are stored
		chatbot	chatbot	in a database.

8.2 USER ACCEPTANCE TESTING

This sort of testing is carried out by users, clients, or other authorised bodies to identify the requirements and operational procedures of an application or piece of software. The most crucial stage of testing is acceptance testing since it determines whether or not the customer will accept the application or programme. It could entail the application's U.I., performance, usability, and usefulness. It is also referred to as end-user testing, operational acceptance testing, and user acceptance testing (UAT).

9. RESULTS

9.1 PERFORMANCE METRICS



10. ADVANTAGES & DISADVANTAGES

ADVANTAGE

- Automation of existing manual information systems.
- Implement chatbot system makes this application user friendly
- Keep track of daily information exchange at the server by the administrator.
- Recommending products based on the user search
- Communicate with the bot makes customer satisfied for choose the product

DISADVANTAGE

- Difficult to decision making for an administrator to improve
- Immediate response to the queries is difficult.
- More stationary use so they are expensive.
- Manual system is takes more time.
- Existing system is manually, so it increases the chances of errors.

11. CONCLUSION

In order to enhance user interaction with the e-commerce website, we have created a chatbot that is based on a website. The chatbot has a pre-stored list of responses, but it also considers dynamic user input, which makes it more likely to offer pertinent answers and product recommendations. Newer goods under the relevant category may be readily added and withdrawn without requiring any changes to the stored chatbot replies since the product database is independent of the responses that were previously saved.

12. FUTURE SCOPE

Future iterations of this project may add more features, such as a comprehensive chatbot application for the healthcare sector or another business. It is easy to make additional enhancements to this system because of the way it was designed. The modification of the project would increase the system's adaptability. Furthermore, the functionalities are provided in a way that will improve the system's performance.

13. APPENDIX

SOURCE CODE

```
from flask import Flask, render_template, flash, request, session
from flask import Flask, render_template, request, jsonify
import datetime
import re
import ibm_db
import pandas
import ibm_db_dbi
from sqlalchemy import create_engine
engine = create_engine('sqlite://',
            echo = False)
dsn_hostname = "1bbf73c5-d84a-4bb0-85b9-
ab1a4348f4a4.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud"
dsn_uid = "ysc77612"
dsn_pwd = "oUWwH90LqzyyOSfH"
dsn_driver = "{IBM DB2 ODBC DRIVER}"
dsn_database = "BLUDB"
dsn_port = "32286"
dsn_protocol = "TCPIP"
dsn_security = "SSL"
dsn = (
  "DRIVER={0};"
  "DATABASE={1};"
  "HOSTNAME={2};"
  "PORT={3};"
  "PROTOCOL={4};"
  "UID={5};"
```

```
"PWD={6};"
  "SECURITY={7};").format(dsn_driver, dsn_database, dsn_hostname, dsn_port,
dsn_protocol, dsn_uid, dsn_pwd,dsn_security)
try:
  conn = ibm_db.connect(dsn, "", "")
  print ("Connected to database: ", dsn_database, "as user: ", dsn_uid, "on host: ",
dsn_hostname)
except:
  print ("Unable to connect: ", ibm_db.conn_errormsg() )
app = Flask(_name_)
app.config.from_object(_name_)
app.config['SECRET_KEY'] = '7d441f27d441f27567d441f2b6176a'
@app.route("/")
def homepage():
  return render_template('index.html')
@app.route("/AdminLogin")
def AdminLogin():
  return render_template('AdminLogin.html')
@app.route("/NewUser")
def NewUser():
  return render_template('NewUser.html')
@app.route("/UserLogin")
def UserLogin():
```

```
return render_template('UserLogin.html')
@app.route("/AdminHome")
def AdminHome():
  conn = ibm_db.connect(dsn, "", "")
  pd_conn = ibm_db_dbi.Connection(conn)
  selectQuery = "SELECT * from regtb "
  dataframe = pandas.read_sql(selectQuery, pd_conn)
  dataframe.to_sql('Employee_Data',
            con=engine,
            if_exists='append')
  # run a sql query
  data = engine.execute("SELECT * FROM Employee_Data").fetchall()
  return render_template('AdminHome.html', data=data)
@app.route("/NewProduct")
def NewProduct():
  return render_template('NewProduct.html')
@app.route("/ProductInfo")
def ProductInfo():
  conn = ibm_db.connect(dsn, "", "")
  pd_conn = ibm_db_dbi.Connection(conn)
  selectQuery = "SELECT * from protb "
  dataframe = pandas.read_sql(selectQuery, pd_conn)
  dataframe.to_sql('Employee_Data',
            con=engine,
            if_exists='append')
  # run a sql query
  print(engine.execute("SELECT * FROM Employee_Data").fetchall())
```

```
return render_template('ProductInfo.html', data=engine.execute("SELECT *
FROM Employee_Data").fetchall())
@app.route("/SalesInfo")
def SalesInfo():
  return render_template('SalesInfo.html')
@app.route("/Search")
def Search():
  conn = ibm db.connect(dsn, "", "")
  pd_conn = ibm_db_dbi.Connection(conn)
  selectQuery = "SELECT * from protb "
  dataframe = pandas.read_sql(selectQuery, pd_conn)
  dataframe.to_sql('Employee_Data',
            con=engine,
            if_exists='append')
  # run a sql query
  print(engine.execute("SELECT * FROM Employee_Data").fetchall())
  return render_template('ViewProduct.html', data=engine.execute("SELECT *
FROM Employee_Data").fetchall())
@app.route("/viewproduct", methods=['GET', 'POST'])
def viewproduct():
  searc = request.form['subcat']
  conn = ibm_db.connect(dsn, "", "")
  pd_conn = ibm_db_dbi.Connection(conn)
  selectQuery = "SELECT * from protb where SubCategory like '%" + searc + "%' "
  dataframe = pandas.read_sql(selectQuery, pd_conn)
  dataframe.to_sql('Employee_Data',
            con=engine,
            if_exists='append')
  # run a sql query
```

```
print(engine.execute("SELECT * FROM Employee_Data").fetchall())
  return render_template('ViewProduct.html', data=engine.execute("SELECT *
FROM Employee_Data").fetchall())
@app.route("/RNewUser", methods=['GET', 'POST'])
def RNewUser():
  if request.method == 'POST':
    name1 = request.form['name']
    gender1 = request.form['gender']
    Age = request.form['age']
    email = request.form['email']
    address = request.form['address']
    pnumber = request.form['phone']
    uname = request.form['uname']
    password = request.form['psw']
    conn = ibm_db.connect(dsn, "", "")
    insertQuery = "INSERT INTO regtb VALUES ("" + name1 + "","" + gender1 +
"',"" + Age + "',"" + email + "',"" + pnumber + "',"" + address + "',"" + uname + "',"" +
password + "')"
    insert table = ibm db.exec immediate (conn, insertQuery)
    print(insert_table)
  return render_template('userlogin.html')
@app.route("/RNewProduct", methods=['GET', 'POST'])
def RNewProduct():
  if request.method == 'POST':
    file = request.files['fileupload']
    file.save("static/upload/" + file.filename)
    ProductId =request.form['pid']
    Gender = request.form['gender']
    Category =request.form['cat']
    SubCategory=request.form['subcat']
    ProductType=request.form['ptype']
    Colour=request.form['color']
```

```
Usage=request.form['usage']
    ProductTitle=request.form['ptitle']
    price = request.form['price']
    Image= file.filename
    ImageURL="static/upload/" + file.filename
    conn = ibm_db.connect(dsn, "", "")
    insertQuery = "INSERT INTO protb VALUES (""+ ProductId +"","" + Gender +
"',"' + Category + "',"' + SubCategory + "',"' + ProductType + "',"' + Colour +
"',"'+Usage +"',"'+ProductTitle+"',"+ Image +"',"+ ImageURL +"',"+ price +"')"
    insert_table = ibm_db.exec_immediate(conn, insertQuery)
    data1 = 'Record Saved!'
    return render_template('goback.html', data=data1)
@app.route("/userlogin", methods=['GET', 'POST'])
def userlogin():
  error = None
  if request.method == 'POST':
    username = request.form['uname']
    password = request.form['password']
    session['uname'] = request.form['uname']
    conn = ibm_db.connect(dsn, "", "")
    pd_conn = ibm_db_dbi.Connection(conn)
    selectQuery = "SELECT * from regtb where UserName="" + username + "' and
password="" + password + """
    dataframe = pandas.read_sql(selectQuery, pd_conn)
    if dataframe.empty:
       data1 = 'Username or Password is wrong'
       return render_template('goback.html', data=data1)
    else:
      print("Login")
```

```
selectQuery = "SELECT * from regtb where UserName="" + username + ""
and password="" + password + """
      dataframe = pandas.read_sql(selectQuery, pd_conn)
      dataframe.to_sql('Employee_Data',
             con=engine,
             if_exists='append')
      # run a sql query
      print(engine.execute("SELECT * FROM Employee_Data").fetchall())
      return render_template('UserHome.html', data=engine.execute("SELECT *
FROM Employee Data").fetchall())
@app.route("/adminlogin", methods=['GET', 'POST'])
def adminlogin():
  error = None
  if request.method == 'POST':
    username = request.form['uname']
    password = request.form['password']
    conn = ibm_db.connect(dsn, "", "")
    pd_conn = ibm_db_dbi.Connection(conn)
    selectQuery = "SELECT * from admintb where LASTNAME="" + username + ""
and FIRSTNAME="" + password + """
    dataframe = pandas.read_sql(selectQuery, pd_conn)
    if dataframe.empty:
      data1 = 'Username or Password is wrong'
      return render_template('goback.html', data=data1)
    else:
      print("Login")
       selectQuery = "SELECT * from regtb "
      dataframe = pandas.read_sql(selectQuery, pd_conn)
      dataframe.to_sql('Employee_Data', con=engine,if_exists='append')
      # run a sql query
       print(engine.execute("SELECT * FROM Employee_Data").fetchall())
```

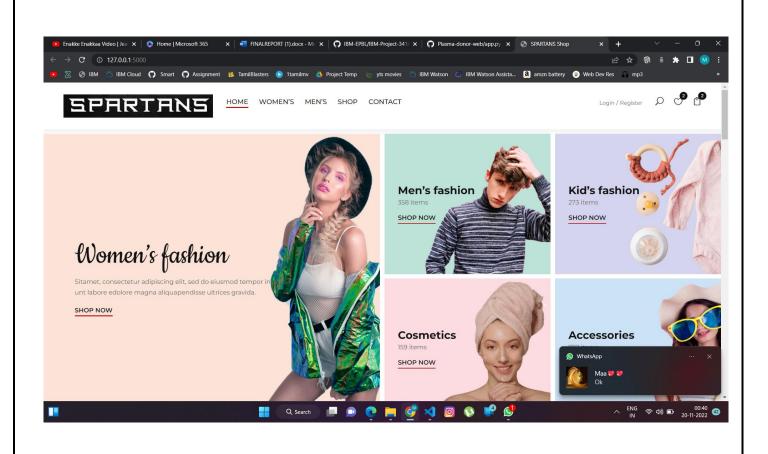
```
return render_template('AdminHome.html', data=engine.execute("SELECT *
FROM Employee_Data").fetchall())
@app.route("/Remove", methods=['GET'])
def Remove():
  pid = request.args.get('id')
  conn = ibm_db.connect(dsn, "", "")
  pd_conn = ibm_db_dbi.Connection(conn)
  insertQuery = "Delete from protb where id=""+ pid +"""
  insert_table = ibm_db.exec_immediate(conn, insertQuery)
  selectQuery = "SELECT * from protb "
  dataframe = pandas.read_sql(selectQuery, pd_conn)
  dataframe.to_sql('Employee_Data',
            con=engine,
            if_exists='append')
  # run a sql query
  print(engine.execute("SELECT * FROM Employee_Data").fetchall())
  return render_template('ProductInfo.html', data=engine.execute("SELECT *
FROM Employee_Data").fetchall())
@app.route("/fullInfo")
def fullInfo():
  pid = request.args.get('pid')
  session['pid'] = pid
  conn = ibm_db.connect(dsn, "", "")
  pd_conn = ibm_db_dbi.Connection(conn)
  selectQuery = "SELECT * FROM protb where ProductId="" + pid + "" "
  dataframe = pandas.read_sql(selectQuery, pd_conn)
  dataframe.to_sql('Employee_Data',
            con=engine,
            if_exists='append')
  # run a sql query
  print(engine.execute("SELECT * FROM Employee_Data").fetchall())
  return render_template('ProductFullInfo.html', data=engine.execute("SELECT *
FROM Employee_Data").fetchall())
```

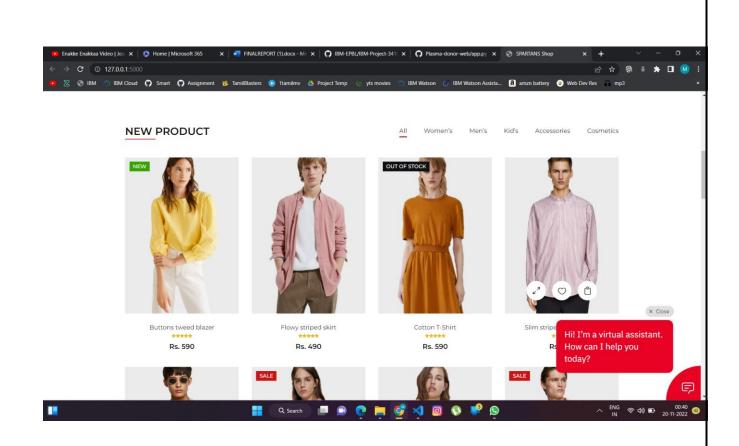
```
@app.route("/Book", methods=['GET', 'POST'])
def Book():
  if request.method == 'POST':
    uname = session['uname']
    pid = session['pid']
    qty = request.form['qty']
    ctype = request.form['ctype']
    cardno = request.form['cardno']
    cvno = request.form['cvno']
    Bookingid = "
    ProductName ="
    UserName= uname
    Mobile="
    Email="
    Qty = qty
    Amount="
    CardType = ctype
    CardNo = cardno
    CvNo = cvno
    date = datetime.datetime.now().strftime('%d-%b-%Y')
    conn = ibm db.connect(dsn, "", "")
    pd_conn = ibm_db_dbi.Connection(conn)
    selectQuery = "SELECT * FROM protb where ProductId="" + pid + "' "
    dataframe = pandas.read_sql(selectQuery, pd_conn)
    dataframe.to_sql('Employee_Data',con=engine,if_exists='append')
    data = engine.execute("SELECT * FROM Employee_Data").fetchall()
    for item in data:
      ProductName = item[8]
      price = item[11]
      print(price)
      Amount = float(price) * float(Qty)
      print(Amount)
    selectQuery1 = "SELECT * FROM regtb where UserName="" + uname + """
    dataframe = pandas.read_sql(selectQuery1, pd_conn)
```

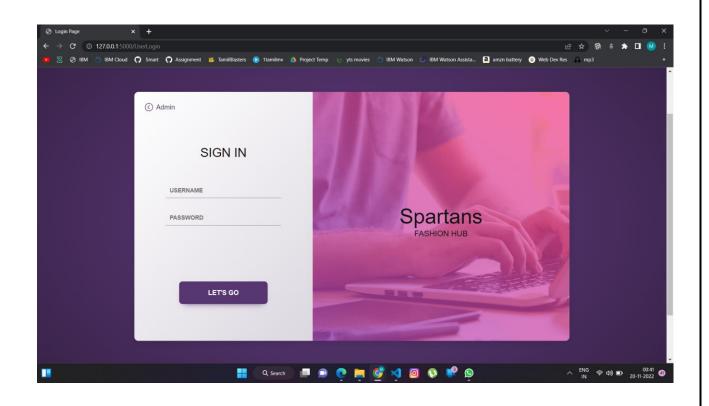
```
dataframe.to_sql('regtb', con=engine, if_exists='append')
    data1 = engine.execute("SELECT * FROM regtb").fetchall()
    for item1 in data1:
      Mobile = item1[5]
      Email = item1[4]
    selectQuery = "SELECT * FROM booktb"
    dataframe = pandas.read_sql(selectQuery, pd_conn)
    dataframe.to_sql('booktb', con=engine, if_exists='append')
    data2 = engine.execute("SELECT * FROM booktb").fetchall()
    count = 0
    for item in data2:
       count+=1
    Bookingid="BOOKID00" + str(count)
    insertQuery = "INSERT INTO booktb VALUES ("" + Bookingid + "',""+
ProductName +"'," + price + "'," + uname + "'," + Mobile + "'," + Email + "'," +
str(Qty) + "',"" + str(Amount) + "',"" + str(CardType) +"',"" + str(CardNo) +"',"" +
str(CvNo) +"',""+ str(date) +"')"
    insert_table = ibm_db.exec_immediate(conn, insertQuery)
    sendmsg(Email,"order received delivery in one week ")
    selectQuery = "SELECT * FROM booktb where UserName= "" + uname + "" "
    dataframe = pandas.read_sql(selectQuery, pd_conn)
    dataframe.to_sql('booktb1', con=engine, if_exists='append')
    data = engine.execute("SELECT * FROM booktb1").fetchall()
    return render template('UOrderInfo.html', data=data)
def sendmsg(Mailid,message):
  import smtplib
  from email.mime.multipart import MIMEMultipart
  from email.mime.text import MIMEText
  from email.mime.base import MIMEBase
  from email import encoders
  fromaddr = "sampletest685@gmail.com"
```

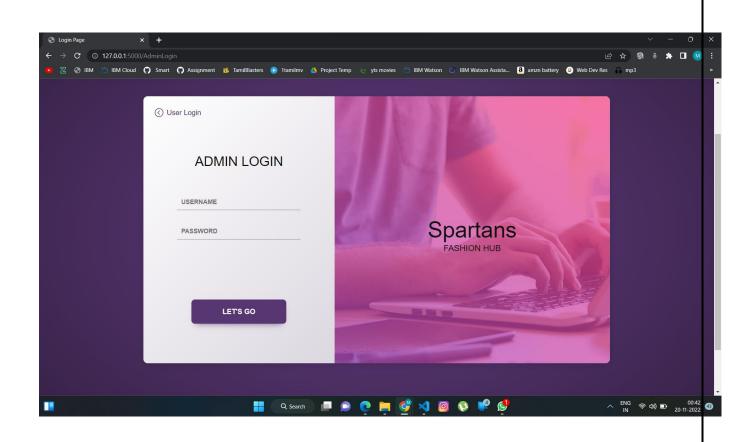
```
toaddr = Mailid
  # instance of MIMEMultipart
  msg = MIMEMultipart()
  # storing the senders email address
  msg['From'] = fromaddr
  # storing the receivers email address
  msg['To'] = toaddr
  # storing the subject
  msg['Subject'] = "Alert"
  # string to store the body of the mail
  body = message
  # attach the body with the msg instance
  msg.attach(MIMEText(body, 'plain'))
  # creates SMTP session
  s = smtplib.SMTP('smtp.gmail.com', 587)
  # start TLS for security
  s.starttls()
  # Authentication
  s.login(fromaddr, "hneucvnontsuwgpj")
  # Converts the Multipart msg into a string
  text = msg.as_string()
  # sending the mail
  s.sendmail(fromaddr, toaddr, text)
  # terminating the session
  s.quit()
@app.route("/UOrderInfo")
```

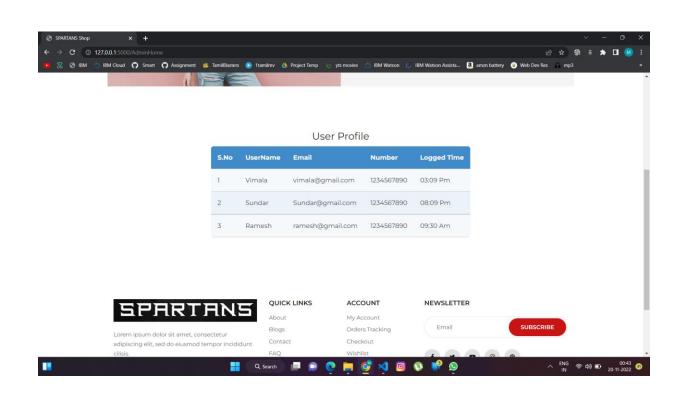
```
def UOrderInfo():
       uname = session['uname']
       conn = ibm db.connect(dsn, "", "")
       pd_conn = ibm_db_dbi.Connection(conn)
       selectQuery = "SELECT * FROM booktb where UserName= "" + uname + "" "
       dataframe = pandas.read_sql(selectQuery, pd_conn)
       dataframe.to_sql('booktb1', con=engine, if_exists='append')
       data = engine.execute("SELECT * FROM booktb1").fetchall()
       return render_template('UOrderInfo.html', data=data)
     @app.route("/UserHome")
    def UserHome():
       uname = session['uname']
       conn = ibm db.connect(dsn, "", "")
       pd_conn = ibm_db_dbi.Connection(conn)
       selectQuery = "SELECT * FROM regtb where UserName= "" + uname + "" "
       dataframe = pandas.read_sql(selectQuery, pd_conn)
       dataframe.to_sql('booktb1', con=engine, if_exists='append')
       data = engine.execute("SELECT * FROM booktb1").fetchall()
       return render_template('UserHome.html', data=data)
     @app.route("/ASalesInfo")
    def ASalesInfo():
       conn = ibm db.connect(dsn, "", "")
       pd_conn = ibm_db_dbi.Connection(conn)
       selectQuery = "SELECT * FROM booktb "
       dataframe = pandas.read sql(selectQuery, pd conn)
       dataframe.to sql('booktb', con=engine, if exists='append')
       data = engine.execute("SELECT * FROM booktb").fetchall()
       return render_template('ASalesInfo.html', data=data)
    def main():
       app.run(debug=True, use_reloader=True)
    if___name__ == '__main__':
main()
```

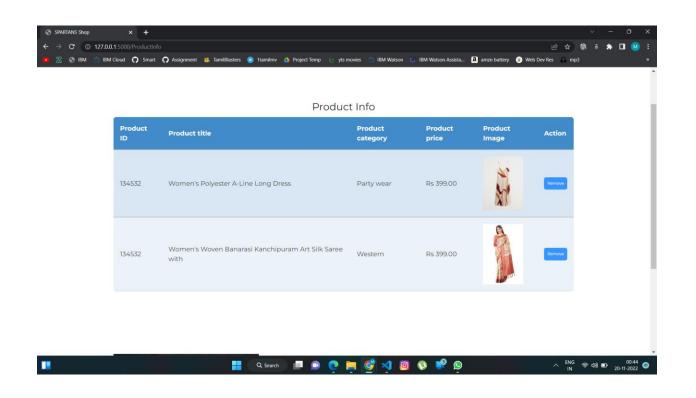












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