

**HINDUSTHAN INSTITUTE OF TECHNOLOGY, COIMBATORE  
DEPARTMENT OF INFORMATION TECHNOLOGY**

**Project Based Experiential Learning Program**

**(NalaiyaThiran)**

**SMART FASHION RECOMMENDER APPLICATION**

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**SEMESTER :VII**

**TEAM MENTOR : MRS.G.KAVIPRIYA**

**TEAM LEADER : MR. VISHAL.R (720819205053)**

**TEAM MEMBERS : MR. DINESH (720819205012)**

**: MR.PUGALENDHI.V (720819205034)**

**: MR.RAGUL.A (720819205037)**

**TEAM ID : B4-4M6E**

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# **1. INTRODUCTION**

## **Project Overview**

We live in a world powered by AI, where all human activities are simplified with machinery. The AI takes control of almost any area. In this project, we included one such powerful tool, a chatbot, that helps recommend goods to customers. The proposed project is about building a fashion website and integrate a chatbot that picks up fashion goods for the users with less time. Instead of checking out so many products and spending lot of time on the internet before buying stuff to fill your wardrobe, get the help of our fashion recommender by simply listing out your preferences. The chatbot is built in such a way that it collects user's likes and dislike by asking them a few questions, pick up the best matches from warehouse and piles up their window with products that they cannot reject. All the products it picks up will never fail to convince the in terms of price, quality and fashion.

## **Purpose**

The primary motive of the proposed system is to recommend fashion products through recommendations. Online shopping makes one to spend less time on buying products as it does not take time to commute, choose shops, check for the quality of the product, and stand in queues to bill them. Users can save money because of better deals and cheaper price. Money transactions are simpler in online shopping. It brings goods at users' door step. Since the proposed project comes with a chatbot, it has an added advantage of picking up fashion goods faster. The built-in chatbot assists customers to make a better and a quick decision to purchase a product as it recommends stuff based on user preferences. Through this, the vendor knows what is desired by their customers and knows their expectations so that they can increase sales.

## **2. LITERATURE SURVEY**

### **Existing problem**

While doing online shopping, people are checking out various products. In fact, the number of products they are checking out is very much greater than number of products they are purchasing. Customers have to go through every product to discover the one best thing that satisfies their desire. It automatically takes a long time and can result in the purchase of a product that was not intended for purchase. Sometimes, just to advantage of free shipping customers end up shopping more than they need.

### **References**

- [1] A Review of Modern Fashion Recommender Systems
- [2] Fashion Recommendation System
- [3] Product Recommender Chatbot
- [4] Image-based fashion recommender systems
- [5] A Survey on Conversational Recommender Systems

## Problem Statement Definition

To come up with a new innovative solution through which user can directly do online shopping based on their choice without any search. It can be done by using the chatbot. It recommends fashion based on user desire.

<b>Problem Statement (PS)</b>	<b>I am (Customer)</b>	<b>I'm trying to</b>	<b>But</b>	<b>Because</b>	<b>Which makes me feel</b>
PS-1	Common man	Buy clothes at cheap rate	Buying cheaper clothes at shops near meraises quality issues.	At cheaper rate, unrecognized brandproducts are sold	Disappointed
PS-2	Fashionista	Buy trendy and branded clothes	Availability of desired products is notassured.	The clothes are notup to my expectations	Frustrated
PS-3	Celebrity	Buy clothes like normal people	Due to paparazzi, I cannot do so.	Being a celebrity, people are curiousabout my personal life	My privacy is invaded
PS-4	Fashion Stylist	Informed about the latest fashion trends	I am not getting apt recommendations from websites.	Sometimes the collections are poorand sometimes the price is high	Upset

### 3. IDEATION & PROPOSED SOLUTION

#### Empathy Map Canvas

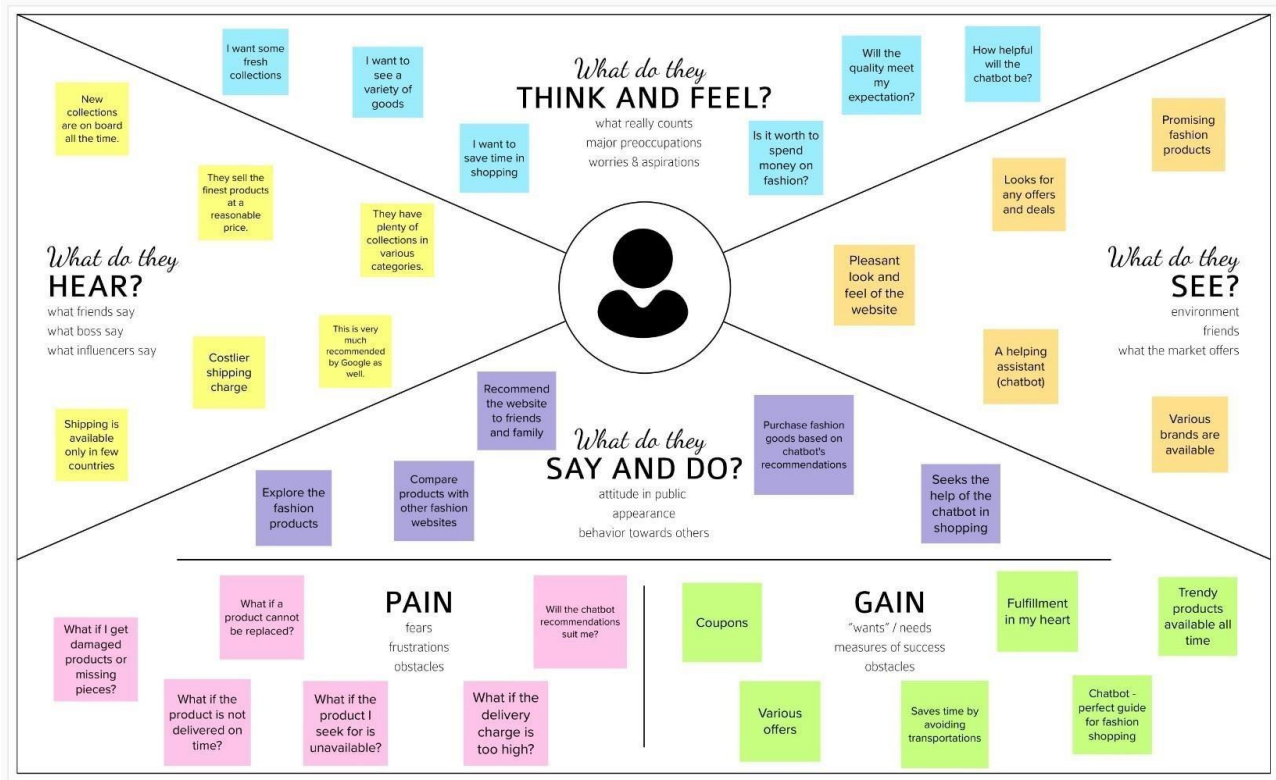


Figure 3.1.1: Empathy Map Canvas

# Ideation & Brainstorming



## Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

- 🕒 10 minutes to prepare
- 👥 1 hour to collaborate
- 👤 2-8 people recommended

🗨️ Share template feedback



### Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

🕒 10 minutes



#### A Team gathering

Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.



#### B Set the goal

Think about the problem you'll be focusing on solving in the brainstorming session.



#### C Learn how to use the facilitation tools

Use the Facilitation Superpowers to run a happy and productive session.

🔗 Open article →

1

### Define your problem statement

To build a new innovative solution through which a user can directly do their online shopping based on their choice without any search by using a chatbot.

🕒 5 minutes

PROBLEM

How might we build a smart fashion recommender application that comes with a chatbot?



### Key rules of brainstorming

To run a smooth and productive session

- 🗨️ Stay in topic.
- 💡 Encourage wild ideas.
- ⏸️ Defer judgment.
- 👂 Listen to others.
- 🗨️ Go for volume.
- 👁️ If possible, be visual.

2

### Brainstorm

Write down any ideas that come to mind that address your problem statement.

🕒 10 minutes

Person 1

Offers are notified to user's mail  
Various Collections for men and women  
Secured payment  
Trendy and quality products on board

Person 3

Chatbot which saves time  
Recommendation based on previous orders  
Appealing user interface  
Filters for user convenience

Person 2

User reviews are valued  
Payment options: COD/Netbanking/UPI/BHIM  
Recommendations are based on user's interest  
Voice search facility in chatbots

Person 4

Coupons generated on birthdays  
Shipping to remote areas  
Flexible return Policy  
Detailed description of each product

3

### Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

🕒 20 minutes

#### Chatbot

Chatbot which saves time  
Voice search facility in chatbots

#### User's Benefits

Flexible return Policy  
Filters for user convenience  
Coupons generated on birthdays  
Offers are notified to user's mail

#### Payment

Payment options: COD/Netbanking/UPI/BHIM  
Secured payment

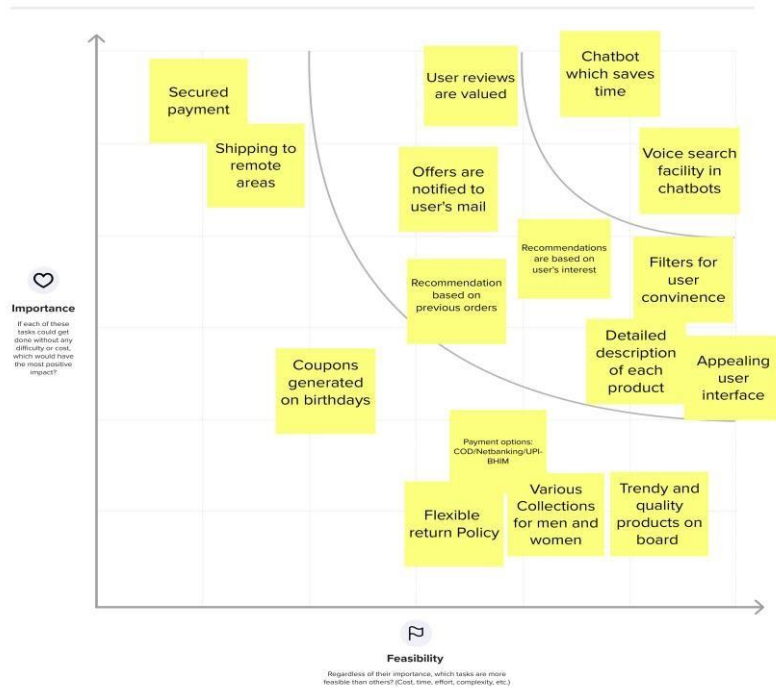


4

**Prioritize**

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

🕒 20 minutes



## Proposed Solution

S.No.	Parameter	Description
1	Problem Statement (Problem to be solved)	To recommend fashion products based on customer's choice without any search on a fashion website.
2	Idea / Solution description	To build a new innovative solution through which a user can directly make their online purchases based on their choice, without any search using a chatbot.
3	Novelty / Uniqueness	Searching or filtering of products can be done with ease using chatbot.
4	Social Impact / Customer Satisfaction	Customers can get their products easily through chatbot without not being redirected to multiple pages.
5	Business Model (Revenue Model)	Shipping charges, and advertisement.
6	Scalability of the Solution	More number of users can be managed effectively, since entire application is hosted on cloud.

# Problem Solution Fit

## Problem-Solution fit canvas 2.0

Purpose / Vision

Define CS, fit into	<b>1. CUSTOMER SEGMENT(S)</b> <span>CS</span> <ul style="list-style-type: none"> <li>Common man (12+ years)</li> <li>Fashionista</li> <li>Celebrity</li> <li>Fashion Stylist</li> </ul>	<b>6. CUSTOMER CONSTRAINTS</b> <span>CC</span> <ul style="list-style-type: none"> <li>No cash or budget</li> <li>Network facilities</li> <li>Available devices</li> </ul>	<b>5. AVAILABLE SOLUTIONS</b> <span>AS</span> <p>Customers tries to purchase fashion products from local shops and other fashion apps where they spend a lot of time to get their desired products.</p> <p>The solution provides smart recommender (chatbot), cool offers, and flexible return policies for easy shopping.</p>	Explore AS,
	<b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <span>J&amp;P</span> <p>Build a solution through which a user can directly do their online shopping based on their choice without any search by using a 'chatbot'.</p>	<b>9. PROBLEM ROOT CAUSE</b> <span>RC</span> <p>Customers with busy schedules, choose to shop online. They wish to be updated and try out the latest trends.</p>	<b>7. BEHAVIOUR</b> <span>BE</span> <ul style="list-style-type: none"> <li>Try fashion applications other than what customers are currently using.</li> <li>Go to various shops spending lots of time and energy which may or may not be a benefit to them.</li> <li>Visit directly to places where particular products are meant for, i.e., for examples people visit Kanchipuram for Kanchipuram silk sarees.</li> </ul>	
Identify strong TR & EM	<b>3. TRIGGERS</b> <span>TR</span> <ul style="list-style-type: none"> <li>Offers</li> <li>Trendy clothes at cheaper price</li> <li>Return policy</li> <li>Chatbot that helps in recommendation</li> </ul>	<b>10. YOUR SOLUTION</b> <span>SL</span> <p>The solution is to build a chatbot that helps customers to recommend fashion products based on his/her choice without any search.</p> <p>It asks customers as many questions as it needed for better recommendation.</p>	<b>8. CHANNELS of BEHAVIOUR</b> <span>CH</span> <p><b>8.1 ONLINE</b></p> <ul style="list-style-type: none"> <li>Try fashion applications other than what customers are currently using.</li> </ul>	Extract online & offline CH of BE
	<b>4. EMOTIONS: BEFORE / AFTER</b> <span>EM</span> <ul style="list-style-type: none"> <li>Disappointed &gt; Satisfied, after getting affordable fashion goods</li> <li>Frustrated &gt; Contented, after seeing trendy, branded collections of desired products</li> </ul>		<p><b>8.2 OFFLINE</b></p> <ul style="list-style-type: none"> <li>Go to various shops spending lots of time and energy which may or may not be a benefit to them.</li> <li>Visit directly to places where particular products are meant for, i.e., for examples people visit Kanchipuram for Kanchipuram silk sarees.</li> </ul>	

## 4. REQUIREMENT ANALYSIS

### Functional requirement

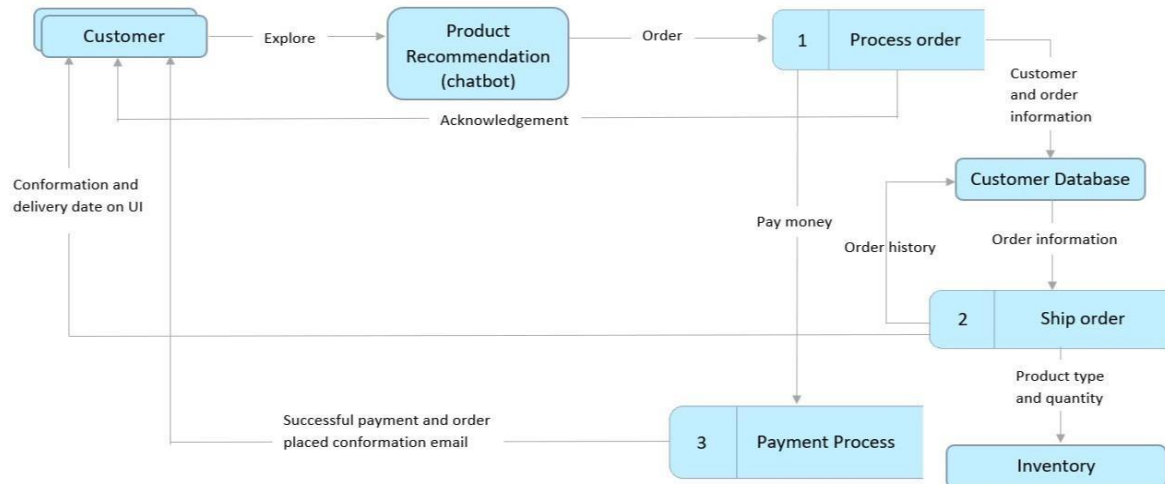
FR No.	Functional Requirement (Epic)	Sub Requirement (Story/ Sub-Task)
FR-1	User Registration	Registration through Form.
FR-2	User Confirmation	Confirmation via Email.
FR-3	User Search	Through search box and chatbot.
FR-4	User payment	Through UPI/Net banking/COD.
FR-5	Chatbot recommendation	Recommends products according to user commands.

### Non-Functional requirement

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	User friendly interface that makes them easy to access.
NFR-2	Security	Data will not be misused by any third party applications.
NFR-3	Reliability	Resetting password if user is unable to login (forget password option)
NFR-4	Performance	Chatbot for apt recommendation and quicker search.
NFR-5	Availability	New collections are available according to the trend.
NFR-6	Scalability	More number of users can be managed effectively, since entire application is hosted on cloud.

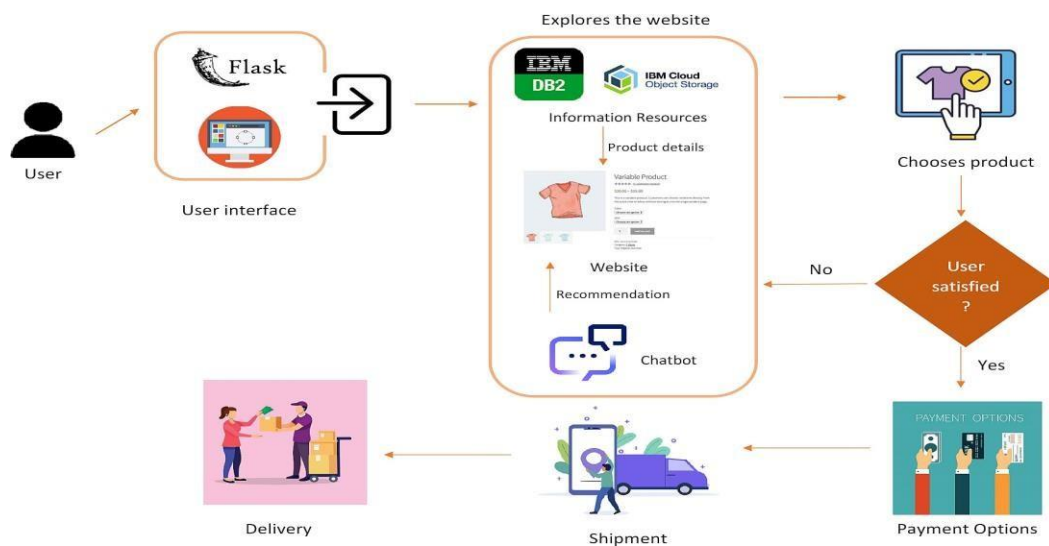
## 5. PROJECT DESIGN

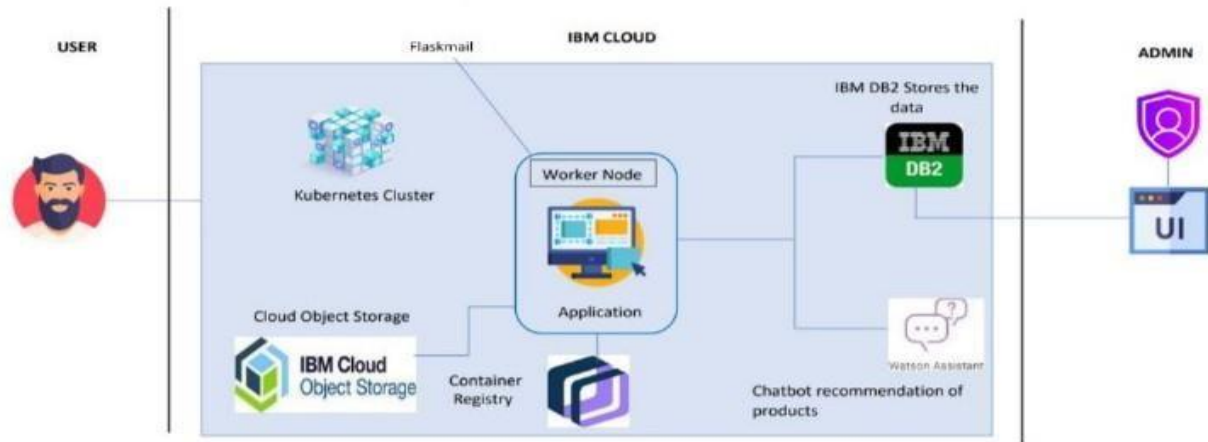
### Data Flow Diagram



### Solution & Technical Architecture

#### Solution Architecture





## User Stories

User Type	Functional Requirement (Epic)	User story Number	User Story / Task	Acceptance Criteria	Priority	Release
Customer (Web 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 or redirect to the next process.	High	Sprint-1
		USN-2	As a user, I will receive a confirmation email, once I have registered for the application.	I can receive confirmation email & click confirm	High	Sprint-1
	Login	USN-3	As a user, I can log into the application by entering email & password	I can be redirected to the dashboard.	High	Sprint-1

	Dashboard	USN-4	As a user, I can explore the products on the site.	I can ask recommendations from the chatbot.	High	Sprint-1
				I can view the offers and deals.		
	Chatbot	USN-5	As a user, I can find my desired products through recommendation.	I can save my time in exploring the products.	High	Sprint-2
	Wish list	USN-6	As a user, I can add the products to my wish list.	I can save products for future reference.	Medium	Sprint-2
	Payment	USN-7	As a user, I can make payment.	I will receive mail after successful payment.	High	Sprint-3
	Payment Confirmation	USN-8	As a user, I will receive a confirmation email.	I can be assured of secured payment.	High	Sprint-3
	Coupon Generation	USN-9	As a user, I will be provided with customized coupons on my birthday.	I will be contented and saving money on my special day.	Low	Sprint-4
	Shipping	USN-10	As a user, I will be able to view the estimated time of delivery.	I can track my orders.	Medium	Sprint-4
Administrator	Login	USN-11	As an admin, I can register for the application by entering my email, password, and confirming my password.	I can track users' purchases.	High	Sprint-4
				I can check the database of the stock.		

## 6. PROJECT PLANNING & SCHEDULING

### Sprint Planning & Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Vishal R
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	3	High	Vishal R
Sprint-1	Login (User)	USN-3	As a user, I can log into the application by entering email and password	2	High	Vishal R
Sprint-1	Dashboard	USN-4	As a user, I can explore the products on the site.	5	High	Vishal R Dinesh S Pugalendi V
		USN-5	As a user, I can view offers.	3	Medium	Ragul A
Sprint-2	Chatbot	USN-6	As a user, I can find my desired products through recommendation.	8	High	Vishal R Dinesh S Pugalendi V Ragul A
		USN-7	As a user, I can ask queries and get clarified.	5	High	Vishal R Dinesh S Pugaledi V Ragul A



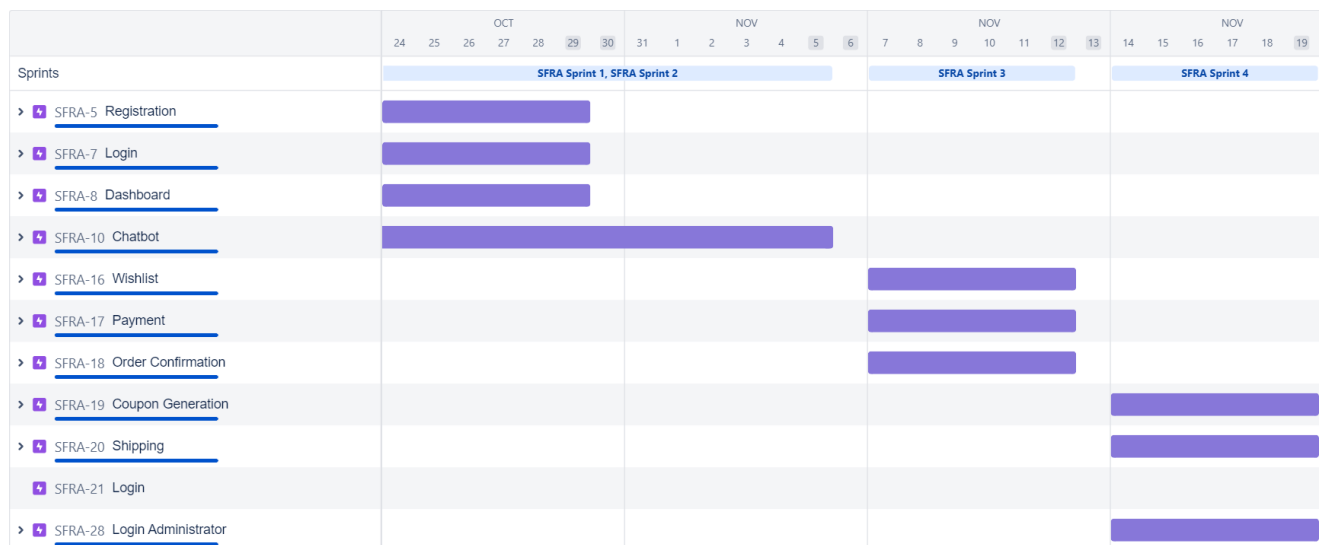
		USN-8	As a user, I can get suggestion on color combinations.	2	Medium	Vishal R Dinesh S
Sprint-3	Wish-list	USN-9	As a user, I can add the products to my wish list.	2	Medium	Pugalendi V Ragul A
Sprint-3	Payment	USN-10	As a user, I can make payment.	8	High	Dinesh S Pugalendi V Ragul A
Sprint-3	Order confirmation	USN-11	As a user, I will receive a confirmation email.	5	High	Vishal R Dinesh S Pugalendi V Ragul A
Sprint-4	Coupon generation	USN-12	As a user, I will be provided with customized coupons on my birthday.	8	Low	Vishal R Pugalendi V Ragul A
Sprint-4	Shipping	USN-13	As a user, I will be able to view the estimated time of delivery.	3	Medium	Pugalendi V Ragul A
Sprint-4	Login (Administrator)	USN-14	As an admin, I can register for the application by entering my email, password, and confirming my password.	2	High	Ragul A
		USN-15	As an admin, I can check out the database about the stock and have a track of all the things that the users are purchasing.	2	Medium	Vishal R Dinesh S Pugale ndi V Ragul A

## Sprint Delivery Schedule

Sprint	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	5Days	02 NOV 2022	07 NOV 2022	07 NOV 2022	08 NOV 2022
Sprint-2	2Days	07 NOV 2022	09 Nov 2022	09Nov 2022	09 Nov 2022
Sprint-3	4 Days	07 Nov 2022	12 Nov 2022	12 Nov 2022	12 Nov 2022
Sprint-4	2 Days	14 Nov 2022	19 Nov 2022	19 Nov 22	19 Nov 2022

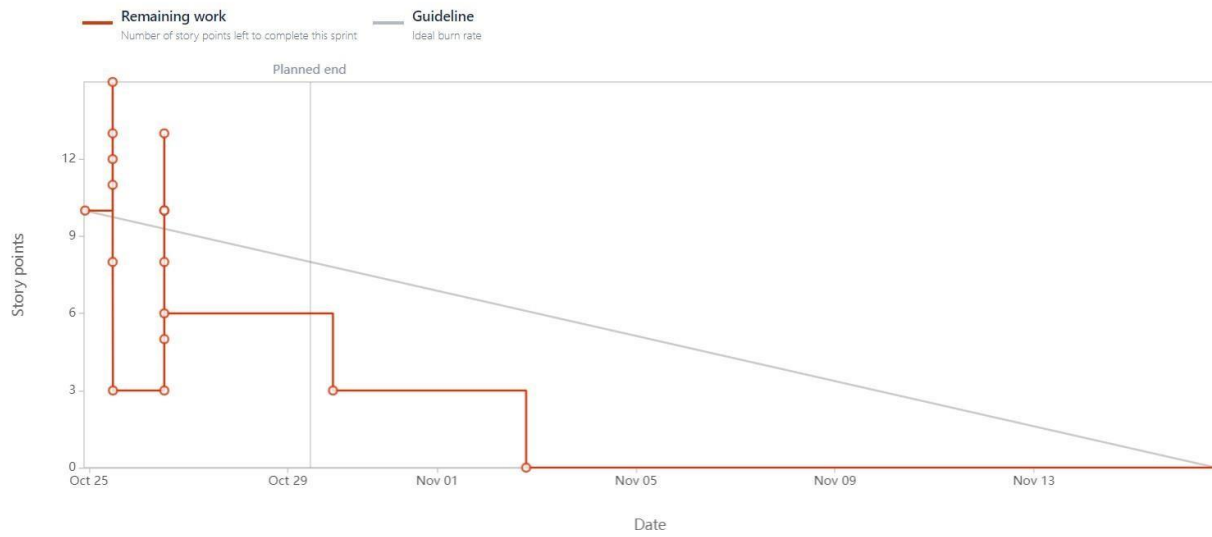
## Reports from JIRA

### Roadmap



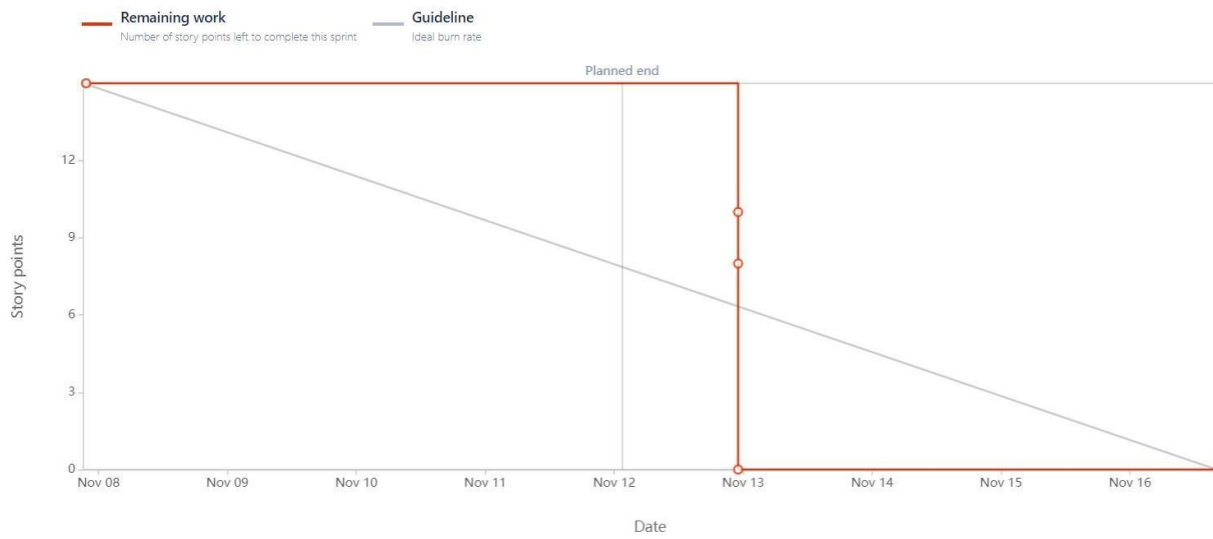
# Sprint 1 Report

Date - October 24th, 2022 - October 29th, 2022



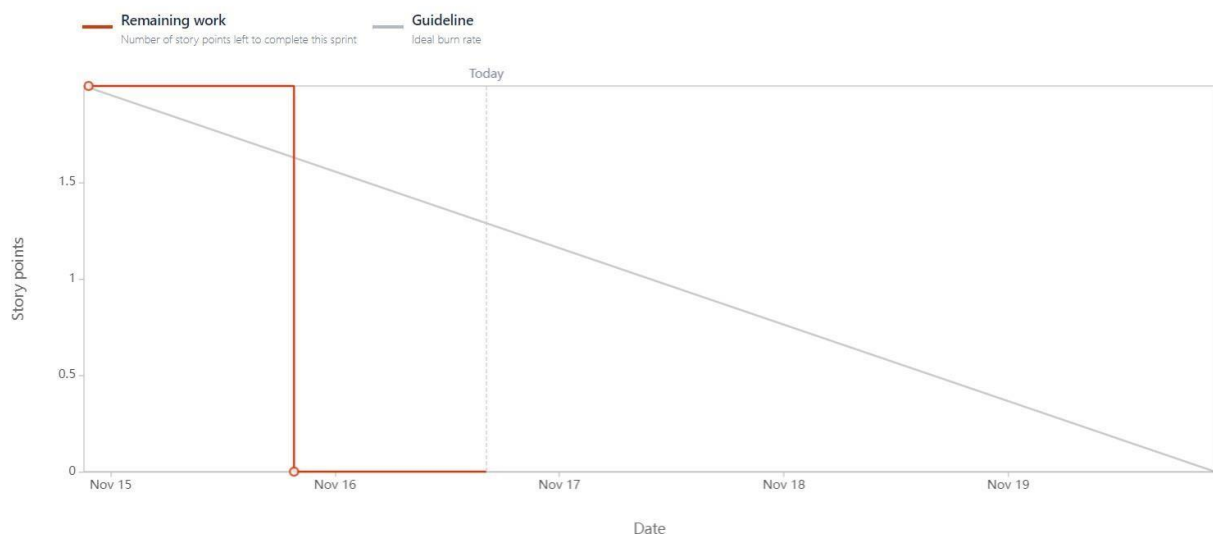
## Sprint 2 Report

Date - November 7th, 2022 - November 12th, 2022



## Sprint 3 Report

Date - November 14th, 2022 - November 19th, 2022



## 7. CODING & SOLUTIONING

### Feature 1

#### Chatbot:

A chatbot has been integrated with the application for recommending fashion products based on the user's preference. For this, IBM Watson Assistant has been used. The chatbot, before suggesting products, asks the user few questions to learn about what the user wants. The chatbot retrieves the product details from the cloud, according to the customer responses to the questions being asked.

#### Code:

##### Home.html

```
<!DOCTYPE html>
<html lang="en">

  <head>
    <meta content="text/html; charset=utf-8" http-equiv="Content-Type">
    <meta content="utf-8" http-equiv="encoding">
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <meta name="theme-color" content="#6495ED">
    <link rel="shortcut icon" href="%PUBLIC_URL%/favicon.ico">
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJISAwGgFaw/dAiS6JXm"
crossorigin="anonymous">
    <link href="{ { url_for('static', filename='css/custom.css') } }" rel="stylesheet" type="text/css" />
    <script defer src="https://use.fontawesome.com/releases/v5.0.6/js/all.js"></script>
    <script src="https://code.jquery.com/jquery-1.11.0.min.js"></script>

  </head>
  <body>
    <!-- Modal -->
    <div class="modal fade" id="modalCenter" tabindex="-1" role="dialog" aria-
labelledby="exampleModalCenterTitle" aria-hidden="true">
      <div class="modal-dialog modal-dialog-centered modal-lg" role="document">
        <div class="modal-content">
          <div class="modal-header">
            <h5 class="modal-title" id="exampleModalLongTitle">Shopping Cart</h5>
            <button type="button" class="close" data-dismiss="modal" aria-label="Close">
              <span aria-hidden="true">&times;</span>
            </button>
          </div>
          <div class="modal-body">
            <div id="shoppingCart">
              <div class="container">
                <div class="row">
                  <div class="col-sm">
                    <table class="table table-sm">
                      <thead>
                        <tr>
```

```

        <th scope="col">#</th>
        <th scope="col">Item</th>
        <th scope="col">Name</th>
        <th scope="col">Quantity</th>
        <th scope="col">Unit Price</th>
        <th scope="col">Sub-Total</th>
        <th scope="col"></th>
    </tr>
</thead>
<tbody>
<!-- For Each shirt -->
{% if shopLen != 0 %}
{% for i in range(shopLen) %}
    <tr>
        <th scope="row">{{ i + 1 }}</th>
        <td></td>
        <td>{{ shoppingCart[i]["samplename"] }}</td>
        <td>{{ shoppingCart[i]['SUM(qty)'] }}</td>
        <td>{{ '{:,.2f}'.format(shoppingCart[i]["price"]) }}</td>
        <td>{{ '{:,.2f}'.format(shoppingCart[i]['SUM(subTotal)']) }}</td><!--
        <td>
            <form action="/remove/" methods="GET">
                <input type="hidden" name="id" value="{{ { shoppingCart[i]["id"] }}" />
                <button type="submit" class="btn btn-secondary btn-sm"
id="removeFromCart">Remove</button>
            </form>
        </td>-->
    </tr>
</tbody>
{% endfor %}
<tfoot>
    <tr>
        <td colspan="7">Total: {{ { format(total) }}<br /><br />
        <div class="modal-footer">
            <a href="/cart/"><button type="button" class="btn btn-primary checkout">Make
Changes</button></a>
            <button type="button" class="btn btn-primary checkout" data-dismiss="modal">Continue
Shopping</button>
            <a href="/checkout/"><button type="button" class="btn btn-success checkout">Quick
Checkout</button></a>
        </div>
    </td>
    </tr>
</tfoot>
{% else %}
    <tr>
        <td colspan="7"><h3>Your cart is empty :</h3></td>
    </tr>
</tbody>
<tfoot>
    <tr>
        <td colspan="7">Get some shirts now!<br />
        <div class="modal-footer">
            <button type="button" class="btn btn-primary" data-dismiss="modal">Continue
Shopping</button>
        </div>
    </td>
    </tr>
</tfoot>

```

```
{% endif % }  
    </table>  
  </div>  
</div>  
</div>  
</div>  
</div>  
</div>  
</div>  
<header>  
<nav class="navbar fixed-top navbar-dark bg-dark navbar-expand-sm box-Red">  
  <a href="/" class="navbar-brand d-flex align-items-center">  
    <strong><i class="fa fa-cart-plus"></i> SAM FASHIONS</strong>  
  </a>  
  {% if session %}  
  <ul class="navbar-nav mr-auto">  
    <li class="nav-item"><a href="/logout/" class="nav-link">Logout</a></li>  
    <li class="nav-item"><a href="/history/" class="nav-link">You Bought</a></li>  
  {% else %}  
  <ul class="navbar-nav mr-auto">  
    <li class="nav-item"><a href="/new/" class="nav-link">Register</a></li>  
    <li class="nav-item"><a href="/login/" class="nav-link">Login</a></li>  
  
  {% endif %}  
  <li class="nav-item dropdown">  
    <a class="nav-link dropdown-toggle" href="#" id="navbardrop" data-toggle="dropdown">  
      Filter By  
    </a>  
    <div class="dropdown-menu">  
      <a class="dropdown-item" href="/">All</a>  
      <a class="dropdown-item" href="/filter/?typeClothes=shirt">Shirts</a>  
      <a class="dropdown-item" href="/filter/?typeClothes=pant">Trousers</a>  
      <a class="dropdown-item" href="/filter/?typeClothes=shoe">Shoes</a>  
      <a class="dropdown-item" href="/filter/?kind=casual">Casual Clothing</a>  
      <a class="dropdown-item" href="/filter/?kind=formal">Formal Clothing</a>  
      <a class="dropdown-item" href="/filter/?sale=1">On Sale</a>  
      <a class="dropdown-item" href="/filter/?price=1">Price $0-$000</a>  
    </div>  
  </li>  
</ul>  
<div>  
  <button class="navbar-toggler" style="display:inline" type="button" data-toggle="modal" data-target="#modalCenter">  
    <span class="glyphicon glyphicon-shopping-cart" data-toggle="modal" data-target="">  
      <i class="fas fa-shopping-cart"></i>  
      <span class="counter">No. of Items:00</span>  
      <span class="counter">Total: $00</span>  
    </span>  
  </button>  
</div>  
</nav>  
</header><br />  
<main>  
<div class="container">  
  {% if display == 1 %}  
  <div class="alert alert-success flashMessage" style="text-align:center">  
    <strong>Your item was successfully removed from shopping cart!</strong>  
  </div>  
</div>  
</main>
```

```
<div class="container">  
  <div class="row">  
    <div class="col-md">  
      <hr />  
      <p>&#169; <a href="/">SAM FASHIONS</a></p>  
    </div>  
  </div>  
</div>  
</footer>  
  
<!-- jQuery first, then Popper.js, then Bootstrap JS -->  
<script src="https://code.jquery.com/jquery-1.11.0.min.js"></script>  
<!-- <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js" integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"  
crossorigin="anonymous"></script>-->  
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js" integrity="sha384-JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYl"  
crossorigin="anonymous"></script>  
<!-- Custom JS Scripts -->  
<script src="{ { url_for('static',filename='js/myscripts.js') } }"></script>  
<script src="{ { url_for('static',filename='js/validate.js') } }"></script>  
</body>  
</html>
```

**Base.html**

```
<!DOCTYPE html>

<html lang="en">

  <head>
    <meta content="text/html; charset=utf-8" http-equiv="Content-Type">
    <meta content="utf-8" http-equiv="encoding">
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <meta name="theme-color" content="#6495ED">
    <link rel="shortcut icon" href="%PUBLIC_URL%/favicon.ico">
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
    <link href="{ { url_for('static', filename='css/custom.css') } }" rel="stylesheet" type="text/css" />
    <script defer src="https://use.fontawesome.com/releases/v5.0.6/js/all.js"></script>
    <script src="https://code.jquery.com/jquery-1.11.0.min.js"></script>

  </head>
  <body>
<!-- Modal -->
<div class="modal fade" id="modalCenter" tabindex="-1" role="dialog" aria-
labelledby="exampleModalCenterTitle" aria-hidden="true">
  <div class="modal-dialog modal-dialog-centered modal-lg" role="document">
    <div class="modal-content">
      <div class="modal-header">
        <h5 class="modal-title" id="exampleModalLongTitle">Shopping Cart</h5>
        <button type="button" class="close" data-dismiss="modal" aria-label="Close">
          <span aria-hidden="true">&times;</span>
        </button>
      </div>
      <div class="modal-body">
        <div id="shoppingCart">
          <div class="container">
```



```

<div class="row">
  <div class="col-sm">
    <table class="table table-sm">
      <thead>
        <tr>
          <th scope="col">#</th>
          <th scope="col">Item</th>
          <th scope="col">Name</th>
          <th scope="col">Quantity</th>
          <th scope="col">Unit Price</th>
          <th scope="col">Sub-Total</th>
          <th scope="col"></th>
        </tr>
      </thead>
      <tbody>
        <!-- For Each shirt -->
        {% if shopLen != 0 %}
        {% for i in range(shopLen) %}
        <tr>
          <th scope="row">{{ i + 1 }}</th>
          <td></td>
          <td>{{ shoppingCart[i]["samplername"] }}</td>
          <td>{{ shoppingCart[i]["SUM(qty)"] }}</td>
          <td>{{ '${:,.2f}'.format(shoppingCart[i]["price"]) }}</td>
          <td>{{ '${:,.2f}'.format(shoppingCart[i]["SUM(subTotal)"]) }}</td><!--
          <td>
            <form action="/remove/" methods="GET">
              <input type="hidden" name="id" value="{{ shoppingCart[i]["id"] }}" />
              <button type="submit" class="btn btn-secondary btn-sm"
id="removeFromCart">Remove</button>
            </form>
          </td>-->
        </tr>
      </tbody>
    </table>
    {% endfor %}
  </div>
  <div class="modal-footer">
    <a href="/cart/"><button type="button" class="btn btn-primary checkout">Make
Changes</button></a>
    <button type="button" class="btn btn-primary checkout" data-dismiss="modal">Continue
Shopping</button>
    <a href="/checkout/"><button type="button" class="btn btn-success checkout">Quick
Checkout</button></a>
  </div>
</td>
</tr>
</tbody>
</tfoot>
{% else %}
<tr>
  <td colspan="7"><h3>Your cart is empty :</h3></td>
</tr>
</tbody>
</tfoot>
{% else %}
<tr>
  <td colspan="7">Get some shirts now!<br />

```

```

        <div class="modal-footer">
            <button type="button" class="btn btn-primary" data-dismiss="modal">Continue Shopping</button>
        </div>
    </td>
</tr>
</tfoot>
{ % endif % }
</table>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
<header>
<nav class="navbar fixed-top navbar-dark bg-dark navbar-expand-sm box-Red">
    <a href="/" class="navbar-brand d-flex align-items-center">
        <strong><i class="fa fa-cart-plus"></i> SAM FASHIONS</strong>
    </a>
    { % if session % }
    <ul class="navbar-nav mr-auto">
        <li class="nav-item"><a href="/logout/" class="nav-link">Logout</a></li>
        <li class="nav-item"><a href="/history/" class="nav-link">You Bought</a></li>
    </ul>
    { % else % }
    <ul class="navbar-nav mr-auto">
        <li class="nav-item"><a href="/new/" class="nav-link">Register</a></li>
        <li class="nav-item"><a href="/login/" class="nav-link">Login</a></li>
    </ul>
    { % endif % }
    <li class="nav-item dropdown">
        <a class="nav-link dropdown-toggle" href="#" id="navbardrop" data-toggle="dropdown">
            Filter By
        </a>
        <div class="dropdown-menu">
            <a class="dropdown-item" href="/">All</a>
            <a class="dropdown-item" href="/filter/?typeClothes=shirt">Shirts</a>
            <a class="dropdown-item" href="/filter/?typeClothes=pant">Trousers</a>
            <a class="dropdown-item" href="/filter/?typeClothes=shoe">Shoes</a>
            <a class="dropdown-item" href="/filter/?kind=casual">Casual Clothing</a>
            <a class="dropdown-item" href="/filter/?kind=formal">Formal Clothing</a>
            <a class="dropdown-item" href="/filter/?sale=1">On Sale</a>
            <a class="dropdown-item" href="/filter/?price=1">Price $0-$000</a>
        </div>
    </li>
</ul>
</div>
    <button class="navbar-toggler" style="display:inline" type="button" data-toggle="modal" data-target="#modalCenter">
        <span class="glyphicon glyphicon-shopping-cart" data-toggle="modal" data-target="">
            <i class="fas fa-shopping-cart"></i>
        <span class="counter">No. of Items:00</span>
        <span class="counter">Total: $00</span>
    </button>
</div>

```



```

    </a>
  </nav>
</header><br />
<main>
  <div class="container">
    <div class="row">
      <div class="col-sm">
        <h2>LOG IN</h2>
        <p>{{ msg }}</p>
        <div>
          <form action="/logged/" class="form" method="post">
            <div>
              <input type="text" name="username" autofocus placeholder="Username"></div>
              <div> <input type="password" name="password" placeholder="Password"></div>
              <div> <button type="submit" class="btn btn-primary">LOGIN</button>
            </div>
          </form>
        </div>
      </div>
    </div>
  </div>
</main>
</body>
</html>

```

### New.html

```

  <!DOCTYPE html>
<html lang="en">
  <head>
    <meta content="text/html; charset=utf-8" http-equiv="Content-Type">
    <meta content="utf-8" http-equiv="encoding">
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <meta name="theme-color" content="#87CEEB">
    <link rel="shortcut icon" href="%PUBLIC_URL%/favicon.ico">
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
    <link href="{ { url_for('static', filename='css/custom.css') } }" rel="stylesheet" type="text/css" />
    <script defer src="https://use.fontawesome.com/releases/v5.0.6/js/all.js"></script>
    <script src="https://code.jquery.com/jquery-1.11.0.min.js"></script>

    <title>SAM FASHIONS - Register</title>
  </head>
  <body>
    <header>
      <nav class="navbar fixed-top navbar-dark bg-dark navbar-expand-sm box-shadow">
        <a href="/" class="navbar-brand d-flex align-items-center">
          <strong><i class="fa fa-shopping-bag"></i>SAM FASHIONS </strong>
        </a>
      </nav>
    </header><br />
    <main>
      <div class="container">
        <div class="row">
          <div class="col-sm">
            <h2>Register</h2>
            <p>{{ msg }}</p>
            <form action="/register/" class="form" method="post">

```

```
        <input type="text" name="username" id="username" placeholder="Username" autofocus required
> <span id="user-msg" class="alert alert-danger"></span><br /><br />
        <input type="password" name="password" id="password" placeholder="Password" required >
<span id="password-msg" class="alert alert-danger"></span><br /><br />
        <input type="password" name="confirm" id="confirm" placeholder="Confirm Password"
required> <span id="confirm-msg" class="alert alert-danger"></span><br /><br />
        <input type="text" name="fname" id="fname" placeholder="First Name" required> <span
id="fname-msg" class="alert alert-danger"></span><br /><br />
        <input type="text" name="lname" id="lname" placeholder="Last Name" required> <span
id="lname-msg" class="alert alert-danger"></span><br /><br />
        <input type="email" name="email" id="email" placeholder="Email" required> <span id="email-
msg" class="alert alert-danger"></span><br /><br /><br />
        <button type="reset" class="btn btn-secondary">Clear</button>
        <button type="submit" id="submit" class="btn btn-primary">Register</button>
    </form>
</div>
</div>
</div>
</main>
<!-- Custom JS Scripts -->
<script src="{ { url_for('static',filename='js/validate.js') } }"></script>
</body>
</html>
```

## Code:

### main.py

```
#payment page
@app.route("/payment",methods=('GET','POST'))
def payment_pg():
    userid = session.get('logged_in_userid', None)
    uname = session.get('logged_in_username', None)
    arr = fetch_cartarr(userid)
    actualmon=datetime.date.today().month
    actualday=datetime.date.today().day
    amtarr = totamtcalculation(arr)
    print(amtarr)
    if request.method == 'POST': #coupon generation if bill amount > 1000
        print("success")
        couponcode=request.form['couponcode']
        print(couponcode)
        address=request.form['address']
        print(amtarr)
        updateaddr="UPDATE user SET address='"+address+"' WHERE userid='"+userid+"'"
        ibm_db.exec_immediate(conn, updateaddr)
        if(len(arr)!=0): #birthdaycoupon generation
            if (couponcode == 'shop25sv'):
                amtarr[2] = amtarr[2] - (amtarr[2] * 0.25)
            elif (couponcode == 'shi30obd'):
                amtarr[2] = amtarr[2] - (amtarr[2] * 0.3)
            elif (couponcode == 'sash50sma'):
                amtarr[2] = amtarr[2] - (amtarr[2] * 0.5)
            elif (couponcode == 'HBD60SAN'):
                amtarr[2] = amtarr[2] - (amtarr[2] * 0.6)
            print(amtarr)

    query="select DOB,address from user where userid='"+userid+"'"
    stmt = ibm_db.exec_immediate(conn, query)
    res = ibm_db.fetch_tuple(stmt)
    userdob=datetime.datetime.strptime(str(res[0]), "%Y-%m-%d")
    userdobmon=userdob.month
```

```
userdobday=userdob.day
```

```
if(userdobmon == actualmon and userdobday == actualday):
```

```
    birthdaycoupon=True
```

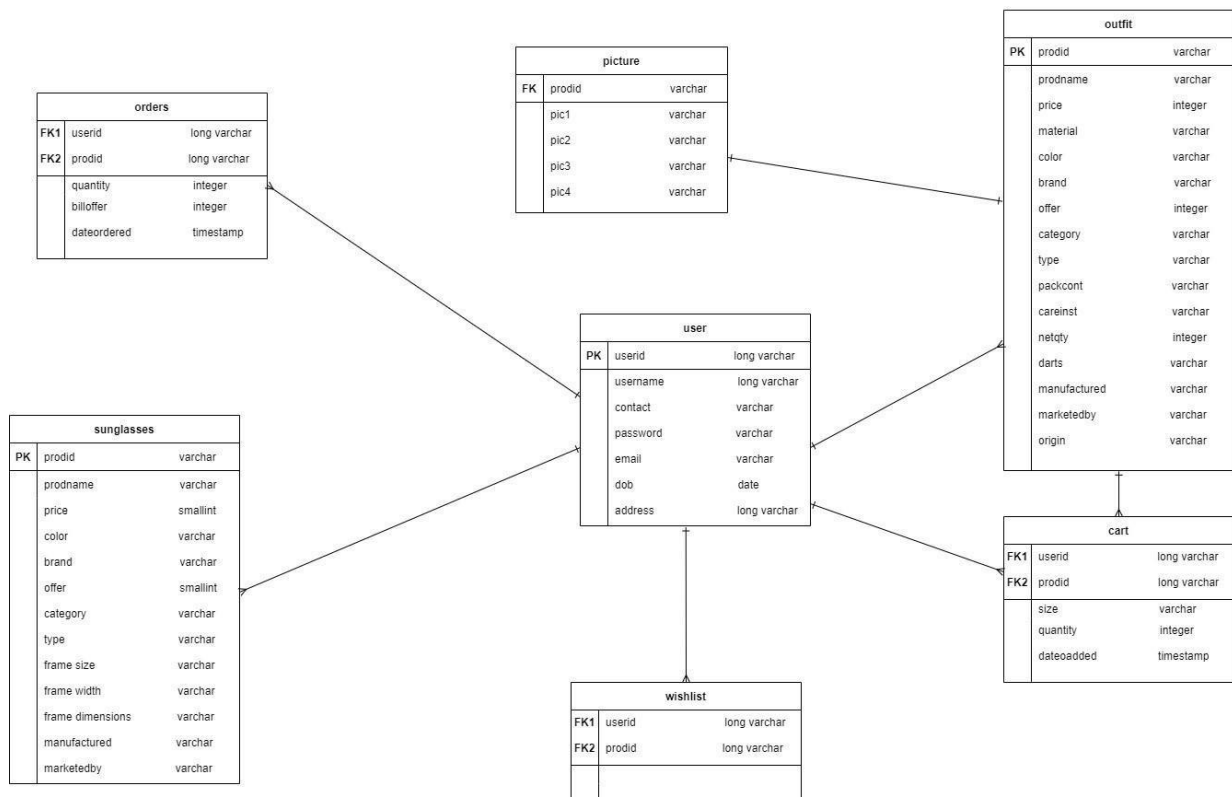
```
else:
```

```
    birthdaycoupon=False
```

```
return
```

```
render_template("payment.html",netamt=amtarr[2],birthdaycoupon=birthdaycoupon,userid=userid,res  
=res,uname=uname)
```

## Database Schema



**Figure 7.3.1: Database Schema Diagram**

## 8. TESTING

### Test Cases Sprint 1

**Table 8.1.1: Sprint 1 Test Cases**

Test case ID	LoginPage_TC_OO2	LoginPage_TC_OO3	LoginPage_TC_OO4	LoginPage_TC_OO5
Feature Type	UI	Functional	Functional	Functional
Component	Home Page	Home page	Login page	Login page
Test Scenario	Verify if the UI elements in Login/Signup popup	Verify if user is able to log into application with Valid credentials	Verify if user is able to log into application with InValid credentials	Verify if user is able to log into application with InValid credentials
Pre-Requisite	The user must know his/her login credentials like username and password.	The user must know his/her login credentials like username and password.	Credentials	Credentials
Steps To Execute	<ol style="list-style-type: none"> <li>1. Enter URL and click go.</li> <li>2. Click on My Account dropdown button.</li> <li>3. Verify if login/Singup popup with below UI elements: <ol style="list-style-type: none"> <li>a. email text box</li> <li>b. password text box</li> <li>c.Login button</li> <li>d.New customer?</li> </ol> </li> <li>Create account link</li> </ol>	<ol style="list-style-type: none"> <li>1. Enter URL(websiteurl) and click go.</li> <li>2. Click on My Account dropdown button.</li> <li>3. Enter Valid username/email in Email text box.</li> <li>4. Enter valid password in password text box.</li> <li>5. Click on login button.</li> </ol>	<ol style="list-style-type: none"> <li>1. Enter URL(https://shopenzer.com/) and click go.</li> <li>2. Click on My Account dropdown button.</li> <li>3. Enter InValid username/email in Email text box.</li> <li>4. Enter valid password in password text box.</li> <li>5. Click on login button.</li> </ol>	<ol style="list-style-type: none"> <li>1. Enter URL(https://shopenzer.com/) and click go.</li> <li>2. Click on My Account dropdown button.</li> <li>3.Enter InValid username/email in Email text box.</li> <li>4. Enter Invalid password in password text box.</li> <li>5. Click on login button.</li> </ol>



<b>Test Data</b>	<a href="http://159.122.181.169:32087/">http://159.122.181.169:32087/</a>	Username: shirlsrocks password: 123	Username: shirleyrocks password: 123	Username: shirleyrocks password:345
<b>Expected Result</b>	Application should show below UI elements: a.username text box b.password text box c.Login button with orange colour d.New customer? Create account link	User should be able to go to home page of the website with the username displayed in the home page.	Application should show 'Invalid credentials. Please enter corect details' validation message.	Application should show 'Invalid credentials. Please enter corect details' validation message.
<b>Actual Result</b>	Working as expected	Working as expected	Working as expected	Working as expected
<b>Status</b>	Pass	Pass	Pass	Pass
<b>Comments</b>	The login page elements are as mentioned.	-	-	-
<b>Executed By</b>	Vishal R	Dinesh S	Pugalendhi V	Ragul A

## Sprint 2

**Table 8.1.2: Sprint 2 Test Cases**

<b>Test case ID</b>	Product_Det_Pag e_TC_OO1	Product_Page_TC _OO2	Home_Page_TC_ 003	Home_Page_TC_0 04
<b>Feature Type</b>	Functional	UI	Functional	Functional

Component	Product Detail Page	Product page	Chatbot	Chatbot
Test Scenario	Adding Products to the cart	Verify if the user can view the product details	Verify if whether the chatbot is recommending the products	Verify if whether the user is provided with alternative combinations if the user is not satisfied with the recommendations
Pre-Requisite	Users should register with the website to add products to the cart	-	-	-
Steps To Execute	1. Enter URL and click go 2. Explore the products and add them to the cart.	1. Enter URL (website URL) and click go 2. Click the product you want to view	1. Enter URL (website URL) and click go 2. Click the chatbot 3. Ask some questions.	1. Enter URL (website URL) and click go 2. Click the chatbot 3. Tell I'm not satisfied
Expected Result	The application should show below UI elements: a. Product details	Users should be able to go to the home page of our website with the username displayed on the home page.	A chatbot is recommending the products	Chatbot is recommending alternatives.
Actual Result	Working as expected	Working as expected	Working as expected	Working as expected
Status	Pass	Pass	Pass	Pass
Comments	-	-	-	-

<b>BUG ID</b>	-	-	-	-
<b>Executed By</b>	Vishal R	Ragul A	Dinesh S	Pugalendhi V

### Sprint 3

**Table 8.1.3: Sprint 3 Test Cases**

<b>Test case ID</b>	Product_Page_TC_OO1	Payment_Page_TC_OO2	PaymentPage_TC_OO3
<b>Feature Type</b>	Functional	Functional	Functional
<b>Component</b>	Products Page	Payment page	Payment page
<b>Test Scenario</b>	Verify if if the user can add products to the wish list	Verify if if the user can make payment at the checkout page.	Verify if if the user can receive an order confirmation mail
<b>Pre-Requisite</b>	User should have signed in the website.	1. User should have signed in the website. 2. User should have facilities for netbanking to use 3rd party payment services.	1. User should have signed in the website. 2. User should have email ID.
<b>Steps To Execute</b>	1. Enter URL and click go. 2. Explore the products. 3. Add the products to the wish list.	1. Enter URL (website URL) and click go. 2. Click on the My Account dropdown button. 3. Add products to the cart. 4. Click "Proceed to Buy". 5. Click the payment option you want to avail.	1. Enter the URL. 2. Make payment.
<b>Expected Result</b>	Products are added to the wish list.	The user should be able to make payments.	The user should be able to receive a confirmation mail.

<b>Actual Result</b>	Working as expected	Working as expected	Working as expected
<b>Status</b>	Pass	Pass	Pass

## Sprint 4

**Table 8.1.4: Sprint 4 Test Cases**

<b>Test case ID</b>	Product_Page_TC_OO1	Payment_Page_TC_OO2	PaymentPage_TC_OO3
<b>Feature Type</b>	Functional	Functional	Functional
<b>Component</b>	Products Page	Payment page	Payment page
<b>Test Scenario</b>	Verify if if the user can add products to the wish list.	Verify if if the user can make payment at the checkout page.	Verify if if the user is able to receive an order confirmation mail.
<b>Pre-Requisite</b>	-	-	-
<b>Steps To Execute</b>	<ol style="list-style-type: none"> <li>1. Enter URL and click go.</li> <li>2. Explore the products.</li> <li>3. Add the products to the wish list.</li> </ol>	<ol style="list-style-type: none"> <li>1. Enter URL (website URL) and click go</li> <li>2. Click on the My Account dropdown button</li> <li>3. Add products to the cart</li> <li>4. Click "Proceed to buy"</li> <li>5. Click the payment option you want to avail.</li> </ol>	<ol style="list-style-type: none"> <li>1. Enter the URL.</li> <li>2. Make payment.</li> </ol>
<b>Test Data</b>	<a href="http://159.122.181.169:32087/">http://159.122.181.169:32087/</a>	<a href="http://159.122.181.169:32087/">http://159.122.181.169:32087/</a>	<a href="http://159.122.181.169:32087/">http://159.122.181.169:32087/</a>
<b>Expected Result</b>	Products are added to the wishlist	The user should be able to make payments.	The user should be able to receive a

			confirmation mail.
<b>Actual Result</b>	Working as expected	Working as expected	Working as expected
<b>Status</b>	Pass	Pass	Pass
<b>Comments</b>	-	-	-
<b>TC for Automation(Y/N)</b>	-	-	-
<b>BUG ID</b>	-	-	-

## User Acceptance Testing

### 1. Purpose of Document

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

### 2. Defect Analysis

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

**Table 8.2.1: Defect Analysis**

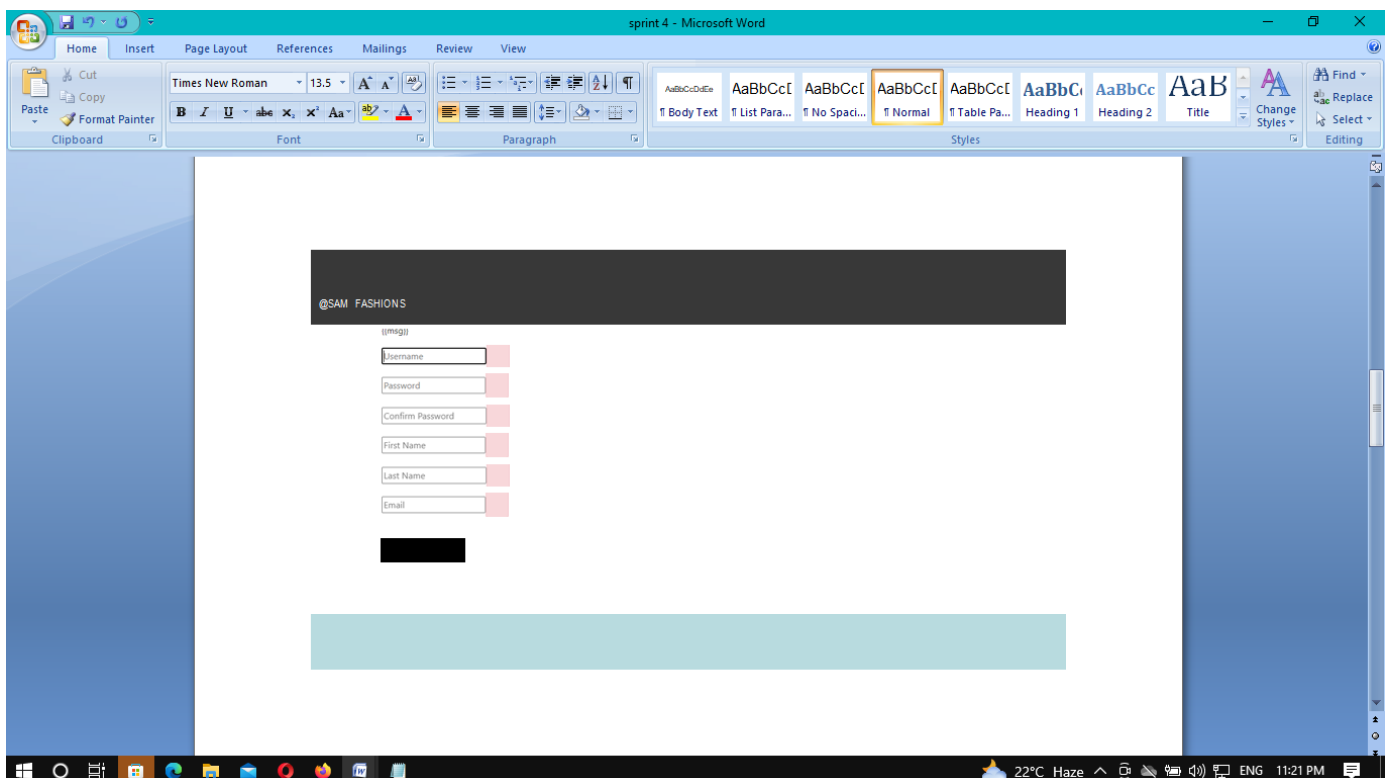
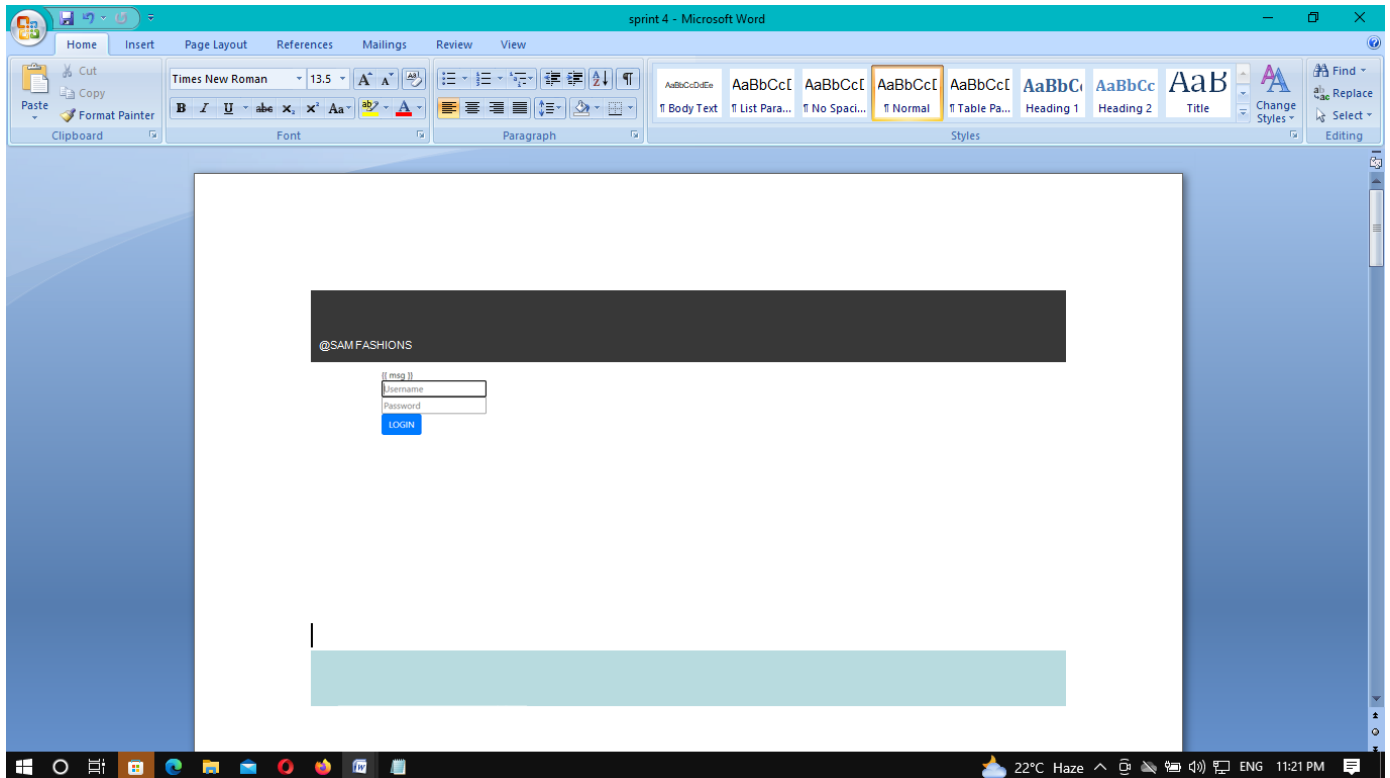
	Total Cases	Not Tested	Fail	Pass
Print Engine	7	0	0	7
Client Application	51	0	0	51
Security	2	0	0	2
Outsource Shipping	3	0	0	3

**Table 8.2.2: Test Case Analysis**

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	10	4	2	3	19
Duplicate	1	0	3	0	4
External	2	3	0	1	6
Fixed	11	2	4	20	37
Not Reproduced	0	0	0	0	0
Skipped	3	0	1	1	5
Won't Fix	0	5	2	1	8
Totals	24	14	13	26	79

## 9. RESULTS

### 9.1 Performance Metrics



## **10. ADVANTAGES & DISADVANTAGES**

### **Advantages**

1. Customers can save time by shopping online by selecting the item as per their choice without any hassle of going to a mall or a physical store for buying fashion products.
2. They can purchase products easily with the help of chatbot which is available 24/7 to assist them.
3. Customers can save money with the deals provided.
4. Users can save money by applying for coupons and get more trendy products with new offers and deals.
5. They do not have to stand in queues in cash counters to pay for the products.

### **Disadvantages**

1. The sad part of online shopping is, customer cannot touch the product and feel how it is.
2. User may get disappointed if the expected product differs by color or size.
3. At times, the user will be frustrated if the products are damaged during delivery or if some parts are missing.
4. User may get annoyed if the product is not delivered at the estimated date.
5. Sometimes just to avail free shipping, user end up shopping more than your requirement.



## **11. CONCLUSION**

Technology has made significant progress over the years to provide consumers with a better online shopping experience. Online shopping has opened up doors to many small retailers that would never be in business, if they had to incur the high cost of owning a fashion store. The integration of chatbot helps consumers to obtain referrals according to their interest and even their questions are answered, making the client more active within the site. The bottom line is that, everyone benefits, both customers and vendor.

## **12. FUTURE SCOPE**

All walks of life wish for a simpler lifestyle. As a future enhancement, this application will further includes features like color combination recommendation (suggest colors that better match the color that the user is giving the virtual assistant), PO tracking, image search, show recently viewed products without logging into account for better user experience.

## 13. APPENDIX

### Source Code

#### Directory Structure

Project folder name: SmartFashion



## main.py

### base.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta content="text/html; charset=utf-8" http-equiv="Content-Type">
  <meta content="utf-8" http-equiv="encoding">
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
  <meta name="theme-color" content="#6495ED">
  <link rel="shortcut icon" href="%PUBLIC_URL%/favicon.ico">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJISAwGgFaw/dAiS6JXm"
  crossorigin="anonymous">
  <link href="{ { url_for('static', filename='css/custom.css') } }" rel="stylesheet" type="text/css" />
  <script defer src="https://use.fontawesome.com/releases/v5.0.6/js/all.js"></script>
  <script src="https://code.jquery.com/jquery-1.11.0.min.js"></script>

</head>
<body>
<!-- Modal -->
<div class="modal fade" id="modalCenter" tabindex="-1" role="dialog" aria-
labelledby="exampleModalCenterTitle" aria-hidden="true">
  <div class="modal-dialog modal-dialog-centered modal-lg" role="document">
    <div class="modal-content">
      <div class="modal-header">
        <h5 class="modal-title" id="exampleModalLongTitle">Shopping Cart</h5>
        <button type="button" class="close" data-dismiss="modal" aria-label="Close">
          <span aria-hidden="true">&times;</span>
        </button>
      </div>
      <div class="modal-body">
        <div id="shoppingCart">
          <div class="container">
            <div class="row">
              <div class="col-sm">
                <table class="table table-sm">
                  <thead>
                    <tr>
                      <th scope="col">#</th>
                      <th scope="col">Item</th>
                      <th scope="col">Name</th>
                      <th scope="col">Quantity</th>
                      <th scope="col">Unit Price</th>
                      <th scope="col">Sub-Total</th>
                      <th scope="col"></th>
                    </tr>
                  </thead>
                  <tbody>
                    <!-- For Each shirt -->
                    { % if shopLen != 0 % }
                    { % for i in range(shopLen) % }
                    <tr>
                      <th scope="row">{ { i + 1 } }</th>
                      <td></script>-->
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js" integrity="sha384-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYI"
crossorigin="anonymous"></script>
<!-- Custom JS Scripts -->
<script src="{ { url_for('static',filename='js/myscripts.js') } }"></script>
<script src="{ { url_for('static',filename='js/validate.js') } }"></script>
</body>
</html>

```

## Login.html

```

<!DOCTYPE html>
<html lang="en">
<head>
<meta content="text/html; charset=utf-8" http-equiv="Content-Type">
<meta content="utf-8" http-equiv="encoding">
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
<meta name="theme-color" content="#6495ED">
<link rel="shortcut icon" href="%PUBLIC_URL%/favicon.ico">
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJISAwIGgFAW/dAiS6JXm"
crossorigin="anonymous">
<link href="{ { url_for('static',filename='css/custom.css') } }" rel="stylesheet" type="text/css" />
<script defer src="https://use.fontawesome.com/releases/v5.0.6/js/all.js"></script>
<script src="https://code.jquery.com/jquery-1.11.0.min.js"></script>

<title>SAM FASHIONS- Log In</title>
</head>
<body>
<header>
<nav class="navbar fixed-top navbar-dark bg-dark navbar-expand-sm box-shadow">
<a href="/" class="navbar-brand d-flex align-items-center">
<strong><i class="fa fa-cart-plus"></i>SAM FASHIONS </strong>
</a>
</nav>
</header><br />
<main>
<div class="container">
<div class="row">
<div class="col-sm">
<h2>LOG IN</h2>
<p>{{ msg }}</p>
<div>
<form action="/logged/" class="form" method="post">
<div>
<input type="text" name="username" autofocus placeholder="Username"></div>
<div> <input type="password" name="password" placeholder="Password"></div>
<div> <button type="submit" class="btn btn-primary">LOGIN</button>
</div>
</form>
</div>
</div>
</div>
</div>

```

```
</div>  
</main>  
</body>  
</html>
```



## **followback.py**

```
from connect import *
from flask import *
import datetime

#other use defined functions required
def fetchapi(category):
    api=""
    if(category=='Women'):
        api='https://s3.jp-tok.cloud-object-storage.appdomain.cloud/raspberryibmsfrappbucket/'
    elif (category == 'Men'):
        api = 'https://s3.jp-tok.cloud-object-storage.appdomain.cloud/iraash/'
    elif (category == 'Accessories'):
        api = 'https://s3.jp-tok.cloud-object-storage.appdomain.cloud/104084smartfashion/'
    elif (category == 'Kids'):
        api = 'https://s3.jp-tok.cloud-object-storage.appdomain.cloud/iraash/'
    elif (category == 'Footwears'):
        api = 'https://s3.jp-tok.cloud-object-storage.appdomain.cloud/smartfashion2001/'
    return api

def insert_intocart(arr,prodid,category,userid,type):
    dt=datetime.datetime.now()
    if (type == 'Dresses' or type == 'Kurtis' or type == 'Palazzo' or type == 'Western' or category ==
'Men' or category == 'Kids' or category == 'Footwears'):
        size = request.form['sizeval']
    else:
        size = "nil"
    flag = 0

    for cartitems in arr: #if already the user has added an item in cart quantity gets updated.
        if (cartitems[6] == prodid and cartitems[3]==size):
            flag = 1
            updatequery = "UPDATE cart set quantity=quantity+1 where prodid=" + prodid + ""
            ibm_db.exec_immediate(conn, updatequery)
            break
    if (flag != 1):
        querycart="insert into cart values(?,?,?,?)"
        stmt = ibm_db.prepare(conn, querycart)
        ibm_db.bind_param(stmt, 1, userid)
        ibm_db.bind_param(stmt, 2, prodid)
        ibm_db.bind_param(stmt, 3, size)
        ibm_db.bind_param(stmt, 4, 1)
        ibm_db.bind_param(stmt, 5, dt)
        ibm_db.execute(stmt)

def fetch_cartarr(userid):
    arr=[]
```

```

query = "select o.prodname,o.price,p.pic1,c.size,o.category,o.type,o.prodid,o.offer,c.quantity from
outfit o inner join picture p on o.prodid=p.prodid INNER join cart c on c.prodid=p.prodid where
userid='"+userid+"' ORDER BY c.dateoadded DESC"
stmt = ibm_db.exec_immediate(conn, query)
row = ibm_db.fetch_tuple(stmt)
while (row):
    arr.append(row) # appending all dictionaries in arr
    row = ibm_db.fetch_tuple(stmt) # incrementing that is to next row
for i in range(0, len(arr)):
    arr[i] = list(arr[i])
for j in range(0, len(arr)):
    imageapi = fetchapi(arr[j][4])
    arr[j][2] = imageapi + arr[j][2]
constlen = len(arr)
sunquery = "select o.prodname,o.price,p.pic1,c.size,o.category,o.type,o.prodid,o.offer,c.quantity
from sunglasses o inner join picture p on o.prodid=p.prodid INNER join cart c on c.prodid=p.prodid
where userid='"+userid+"' ORDER BY c.dateoadded DESC"
sunstmt = ibm_db.exec_immediate(conn, sunquery)
sunrow = ibm_db.fetch_tuple(sunstmt)
while (sunrow):
    arr.append(sunrow) # appending all dictionaries in arr
    sunrow = ibm_db.fetch_tuple(sunstmt) # incrementing that is to next row
for i in range(constlen, len(arr)):
    arr[i] = list(arr[i])
for j in range(constlen, len(arr)):
    imageapi2 = fetchapi(arr[j][4])
    arr[j][2] = imageapi2 + arr[j][2]
print(arr)
return arr

```

```

def totamtcalculation(arr):
    totcost = 0
    totdis = 0
    amtarr=[]
    for k in range(0, len(arr)):
        totcost = totcost + (arr[k][1] * arr[k][8])
        temp = (arr[k][1] * arr[k][8] * arr[k][7]) / 100
        totdis = totdis + round(temp)
    netamt = totcost - totdis
    taxcalcnetamt = netamt + (netamt * 12) / 100
    amtarr.append(int(totcost))
    amtarr.append(int(totdis))
    amtarr.append(int(taxcalcnetamt))
    return amtarr

```

```

def fetchwishlist(userid):
    arr=[]
    query = "select o.prodid,o.prodname,o.price,p.pic1,o.category,o.type,o.brand,o.offer from outfit o

```

```

inner join picture p on o.prodid=p.prodid INNER join wishlist w on w.prodid=p.prodid where userid=""
+ userid + ""
    stmt = ibm_db.exec_immediate(conn, query)
    row = ibm_db.fetch_tuple(stmt)
    while (row):
        arr.append(row) # appending all dictionaries in arr
        row = ibm_db.fetch_tuple(stmt) # incrementing that is to next row
    for i in range(0, len(arr)):
        arr[i] = list(arr[i])
    for j in range(0, len(arr)):
        imageapi = fetchapi(arr[j][4])
        arr[j][3] = imageapi + arr[j][3]
    constlen = len(arr)
    sunquery = "select o.prodid,o.prodname,o.price,p.pic1,o.category,o.type,o.brand,o.offer from
sunglasses o inner join picture p on o.prodid=p.prodid INNER join wishlist w on w.prodid=p.prodid
where userid="" + userid + ""
    sunstmt = ibm_db.exec_immediate(conn, sunquery)
    sunrow = ibm_db.fetch_tuple(sunstmt)
    while (sunrow):
        arr.append(sunrow) # appending all dictionaries in arr
        sunrow = ibm_db.fetch_tuple(sunstmt) # incrementing that is to next row
    for i in range(constlen, len(arr)):
        arr[i] = list(arr[i])
    for j in range(constlen, len(arr)):
        imageapi2 = fetchapi(arr[j][4])
        arr[j][3] = imageapi2 + arr[j][3]
    return arr

```

### **connect.py**

```

#connecting to IBM Db2
import ibm_db
dsn_hostname = "9938aec0-8105-433e-8bf9-
0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud" # e.g.: "54a2f15b-5c0f-46df-8954-
7e38e612c2bd.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud"
dsn_uid = "t zg17937"      # e.g. "abc12345"
dsn_pwd = "RxjZkDB5SpKoGhvS"    # e.g. "7dBZ3wWt9XN6$00J"
dsn_driver = "{IBMDB2CL1}"
dsn_database = "bludb"        # e.g. "BLUDB"
dsn_port = "32459"            # e.g. "32733"
dsn_protocol = "TCPIP"        # i.e. "TCPIP"
dsn_security = "SSL"          #i.e. "SSL"
dsn_cert="DigiCertGlobalRootCA.crt"
dsn = (
    "DRIVER={0};"

```

```

"DATABASE={1};"
"HOSTNAME={2};"
"PORT={3};"
"PROTOCOL={4};"
"UID={5};"
"PWD={6};"
"SECURITY={7};"
"SSLServerCertificate={8};").format(dsn_driver, dsn_database, dsn_hostname, dsn_port,
dsn_protocol, dsn_uid, dsn_pwd,dsn_security,dsn_cert)
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())
# sql = "insert into user values('105','sahana@gmail.com','1234','sahanaparveen')"
# ibm_db.exec_immediate(conn, sql)
print(dsn)

```

### addstock.html

```

<!DOCTYPE html>
<html>
  <head>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Sash Vogue</title>
    <link rel="icon" type="image/jpeg" href="{ {url_for('redirect_to',link='https://s3.jp-tok.cloud-
object-
storage.appdomain.cloud/smartfashion2001/logo.jpeg') } } " sizes="200x200">
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css" integrity="sha384-
xOoIHfLEh07PJGoPkLv1IbcEPTNtaed2xpHsD9ESMhqIYd0nLMwNLD69Npy4HI+N"
crossorigin="anonymous">
    <link rel="stylesheet" href="{ {url_for('static',filename='styles/styles.css') } } " type="text/css">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <script src="{ {url_for('static',filename='script.js') } } "/>
    <script defer src="https://use.fontawesome.com/releases/v5.15.4/js/all.js"></script>
    <script defer src="https://use.fontawesome.com/releases/v6.2.0/js/all.js"></script>
    <link
href="https://fonts.googleapis.com/css2?family=Alex+Brush&family=Quicksand:wght@300&family=
Jost:wght@500&display=swap" rel="stylesheet">
    <style>
      h1 {

```

```

margin-top:5%;
text-align:center;
  color:white;}
.row
{
margin-top:20px;
margin-left:300px;
margin-right:300px;
display:flex;
color:gray;
}
.row1
{
margin-top:20px;
margin-left:300px;
margin-right:300px;
display:flex;
color:gray;
}

```

```

.addstockbtn
{
  margin: 2% 50%;
  background: rgba(161,25,75,255);
  color: white;
  font-weight: bolder;}

```

```

</style>

```

```

</head>

```

```

<body style="background:url({ {url_for('redirect_to',link='https://s3.jp-tok.cloud-object-storage.appdomain.cloud/smartfashion2001/adminbg.jpg')}});background-repeat: OPACITY:0.4; no-repeat; background-attachment: fixed; background-position: center; background-size: cover; ">

```

```

  <nav class="navbar navbar-expand-lg fixed-top " style="padding:0rem 1rem;  background: black;">

```

```

    <a class="navbar-brand" id="brand" style="color:white;">SASH VOGUE</a>

```

```

  </nav>

```

```

<h1>ADD STOCK</h1>

```

```

<form>

```

```

  <div class="row">

```

```

    <div class="col">

```

```

      <input type="text" class="form-control" placeholder="PRODID">

```

```

    </div>

```

```

    <div class="col">

```

```

      <input type="text" class="form-control" placeholder="PRODNAME">

```

```

    </div>

```

```

  </div>

```

```
<div class="row">
  <div class="col">
    <input type="text" class="form-control" placeholder="PRICE">
  </div>
  <div class="col">
    <input type="text" class="form-control" placeholder="MATERIAL">
  </div>
</div>
<div class="row">
  <div class="col">
    <input type="text" class="form-control" placeholder="COLOR">
  </div>
  <div class="col">
    <input type="text" class="form-control" placeholder="BRAND">
  </div>
</div>
<div class="row">
  <div class="col">
    <input type="text" class="form-control" placeholder="OFFER">
  </div>
  <div class="col">
    <input type="text" class="form-control" placeholder="CATEGORY">
  </div>
</div>

<div class="row">
  <div class="col">
    <input type="text" class="form-control" placeholder="CAREINST">
  </div>
  <div class="col">
    <input type="text" class="form-control" placeholder="NETQTY">
  </div>
</div>
<div class="row">
  <div class="col">
    <input type="text" class="form-control" placeholder="DARTS">
  </div>
  <div class="col">
    <input type="text" class="form-control" placeholder="ORIGIN">
  </div>
</div>
<div class="row">
  <div class="col">
    <input type="text" class="form-control" placeholder="TYPE">
  </div>
</div>
<div class="row1">
  <div class="col">
```

```
        <textarea
type="text"
class="form-control"
rows="4"cols="40"
placeholder="MARK
ETEDBY"></textare
a>
```

```
    </div>
```

```
    <div
class="col">
```

```
        <textarea
type="text"
class="form-control"
rows="4"cols="40"
placeholder="PACK
CONT"></textarea>
```

```
    </div>
```

```
    <div
class="col">
```

```
        <textarea
type="text"
class="form-control"
rows="4"cols="40"
placeholder="MAN
UFACTURED"></te
xtarea>
```

```
    </div>
```

```
</div>
```

```
    <button
class="addstoc
kbtn
btn">ADD</b
utton>
```

```
</form>
```

```
</body>
```

```
</html>
```

## adminlogin.html

```
<!DOCTYPE html>
<html lang="en">

  <head>
    <meta content="text/html; charset=utf-8" http-equiv="Content-Type">
    <meta content="utf-8" http-equiv="encoding">
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <meta name="theme-color" content="#6495ED">
    <link rel="shortcut icon" href="%PUBLIC_URL%/favicon.ico">
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
    <link href="{ { url_for('static', filename='css/custom.css') } }" rel="stylesheet" type="text/css" />
    <script defer src="https://use.fontawesome.com/releases/v5.0.6/js/all.js"></script>
    <script src="https://code.jquery.com/jquery-1.11.0.min.js"></script>

  </head>
  <body>
    <!-- Modal -->
    <div class="modal fade" id="modalCenter" tabindex="-1" role="dialog" aria-
labelledby="exampleModalCenterTitle" aria-hidden="true">
      <div class="modal-dialog modal-dialog-centered modal-lg" role="document">
        <div class="modal-content">
          <div class="modal-header">
            <h5 class="modal-title" id="exampleModalLongTitle">Shopping Cart</h5>
            <button type="button" class="close" data-dismiss="modal" aria-label="Close">
              <span aria-hidden="true">&times;</span>
            </button>
          </div>
          <div class="modal-body">
            <div id="shoppingCart">
              <div class="container">
                <div class="row">
                  <div class="col-sm">
                    <table class="table table-sm">
                      <thead>
                        <tr>
                          <th scope="col">#</th>
                          <th scope="col">Item</th>
                          <th scope="col">Name</th>
                          <th scope="col">Quantity</th>
                          <th scope="col">Unit Price</th>
                          <th scope="col">Sub-Total</th>
                          <th scope="col"></th>
                        </tr>
                      </thead>
                      <tbody>
```



```

<!-- For Each shirt -->
{% if shopLen != 0 %}
{% for i in range(shopLen) %}
<tr>
<th scope="row">{{ i + 1 }}</th>
<td></td>
<td>{{ shoppingCart[i]["samplename"] }}</td>
<td>{{ shoppingCart[i]['SUM(qty)'] }}</td>
<td>{{ '${:,.2f}'.format(shoppingCart[i]["price"]) }}</td>
<td>{{ '${:,.2f}'.format(shoppingCart[i]['SUM(subTotal)']) }}</td><!--
<td>
<form action="/remove/" methods="GET">
<input type="hidden" name="id" value="{{ shoppingCart[i]["id"] }}" />
<button type="submit" class="btn btn-secondary btn-sm"
id="removeFromCart">Remove</button>
</form>
</td>-->
</tr>
</tbody>
{% endfor %}
<tfoot>
<tr>
<td colspan="7">Total: {{ format(total) }}<br /><br />
<div class="modal-footer">
<a href="/cart/"><button type="button" class="btn btn-primary checkout">Make
Changes</button></a>
<button type="button" class="btn btn-primary checkout" data-
dismiss="modal">Continue Shopping</button>
<a href="/checkout/"><button type="button" class="btn btn-success checkout">Quick
Checkout</button></a>
</div>
</td>
</tr>
</tfoot>
{% else %}
<tr>
<td colspan="7"><h3>Your cart is empty :</h3></td>
</tr>
</tbody>
<tfoot>
<tr>
<td colspan="7">Get some shirts now!<br />
<div class="modal-footer">
<button type="button" class="btn btn-primary" data-dismiss="modal">Continue
Shopping</button>
</div>
</td>
</tr>
</tfoot>
{% endif %}
</table>
</div>

```

```

</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
<header>
<nav class="navbar fixed-top navbar-dark bg-dark navbar-expand-sm box-Red">
  <a href="/" class="navbar-brand d-flex align-items-center">
    <strong><i class="fa fa-cart-plus"></i> SAM FASHIONS</strong>
  </a>
  { % if session % }
  <ul class="navbar-nav mr-auto">
    <li class="nav-item"><a href="/logout/" class="nav-link">Logout</a></li>
    <li class="nav-item"><a href="/history/" class="nav-link">You Bought</a></li>
  { % else % }
  <ul class="navbar-nav mr-auto">
    <li class="nav-item"><a href="/new/" class="nav-link">Register</a></li>
    <li class="nav-item"><a href="/login/" class="nav-link">Login</a></li>

  { % endif % }
  <li class="nav-item dropdown">
    <a class="nav-link dropdown-toggle" href="#" id="navbardrop" data-toggle="dropdown">
      Filter By
    </a>
    <div class="dropdown-menu">
      <a class="dropdown-item" href="/">All</a>
      <a class="dropdown-item" href="/filter/?typeClothes=shirt">Shirts</a>
      <a class="dropdown-item" href="/filter/?typeClothes=pant">Trousers</a>
      <a class="dropdown-item" href="/filter/?typeClothes=shoe">Shoes</a>
      <a class="dropdown-item" href="/filter/?kind=casual">Casual Clothing</a>
      <a class="dropdown-item" href="/filter/?kind=formal">Formal Clothing</a>
      <a class="dropdown-item" href="/filter/?sale=1">On Sale</a>
      <a class="dropdown-item" href="/filter/?price=1">Price $0-$000</a>
    </div>
  </li>
</ul>
<div>
  <button class="navbar-toggler" style="display:inline" type="button" data-toggle="modal" data-target="#modalCenter">
    <span class="glyphicon glyphicon-shopping-cart" data-toggle="modal" data-target="">
      <i class="fas fa-shopping-cart"></i>
      <span class="counter">No. of Items:00</span>
      <span class="counter">Total: $00</span>
    </span>
  </button>
</div>
</nav>
</header><br />
<main>
<div class="container">
  { % if display == 1 % }

```



```

        <th scope="col">Item</th>
        <th scope="col">samplename</th>
        <th scope="col">Quantity</th>
        <th scope="col">Unit Price</th>
        <th scope="col">Sub-Total</th>
        <th scope="col"></th>
    </tr>
</thead>
<tbody>
<!-- For Each shirt -->

    <tr>
        <th scope="row">{ i + 1 }</th>
        <td><img src = { { shoppingCart[i]["image"] } } width="30px" alt="{ {
shoppingCart[i]["samplename"] } }></td>
        <td>{ { shoppingCart[i]["samplename"] } }</td>
        <td><form action="/update/">
            <input type="number" name="id" value="{ { shoppingCart[i]["id"] } }" />
            <input type="number" name="quantity" min="1" max="10" size="5"
value="{ { shoppingCart[i]['SUM(qty)'] } }">
            <button type="submit" class="btn btn-warning checkout">Update</button>
        </form></td>
        <td>{ { '${:,.2f}'.format(shoppingCart[i]["price"]) } }</td>
        <td>{ { '${:,.2f}'.format(shoppingCart[i]['SUM(subTotal)']) } }</td>
        <td>
            <form action="/remove/" methods="GET">
                <input type="hidden" name="id" value="{ { shoppingCart[i]["id"] } }" />
                <button type="submit" class="btn btn-secondary btn-sm"
id="removeFromCart">Remove</button>
            </form>
        </td>
    </tr>
</tbody>
{ % endfor % }
<tfoot>
    <tr>
        <td colspan="7">Total:00.00<br /><br />
        <div class="modal-footer">
            <a href="/"><button type="button" class="btn btn-primary
checkout">Continue Shopping</button></a>
            <a href="/checkout/"><button type="button" class="btn btn-success
checkout">Proceed to Checkout</button></a>
        </div>
    </td>
</tr>
</tfoot>
{ % else % }
    <tr>
        <td colspan="7"><h3>Your cart is empty :</h3></td>

```



```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
</head>
<body
  style="background:url({ {url_for('redirect_to',link='https://s3.jp-tok.cloud-object-
storage.appdomain.cloud/smartfashion2001/hmbg.png')}});background-repeat: no-repeat;
background-attachment: fixed; background-position: center; background-size: cover; ">
  {% from 'nav.html' import usedalot %}
  {{usedalot(uname) }}
  {% if uname!= None: %}
<div style="display:flex;">
  <h4 style="font-family: 'Courgette', cursive;text-align: left;font-size: xx-large;margin-top:
```

```

8%;margin-left: 5%;font-weight: 100">Welcome {{uname}},</h4>
</div>
{% endif %}
{% if uname== None: %}
<div id="carouselExampleIndicators" class="carousel slide" style="margin:8% 3%;" data-
ride="carousel">
    {% else: %}
    <div id="carouselExampleIndicators" class="carousel slide" style="margin:3%;" data-
ride="carousel">
        {% endif %}
<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>
    <li data-target="#carouselExampleIndicators" data-slide-to="3"></li>
    <li data-target="#carouselExampleIndicators" data-slide-to="4"></li>
    <li data-target="#carouselExampleIndicators" data-slide-to="5"></li>
    <li data-target="#carouselExampleIndicators" data-slide-to="6"></li>
    <li data-target="#carouselExampleIndicators" data-slide-to="7"></li>
</ol>
<div class="carousel-inner">
    <div class="carousel-item ">
        <a href="{{ url_for('products_page',category='Kids',type='Boys T-Shirts')}}" "> </a>
    </div>
    <div class="carousel-item active">
        
    </div>
    <div class="carousel-item">
        <a href="{{ url_for('products_page',category='Women',type='Ethnic Wear')}}" ">
    </a>
    </div>
    <div class="carousel-item ">
        <a href="{{ url_for('products_page',category='Women',type='Ethnic Wear')}}" ">
    </a>
    </div>
    <div class="carousel-item">
        <a href="{{ url_for('products_page',category='Footwears',type='Men')}}" ">
        
    </a>
    </div>

```

```

<div class="carousel-item">
  <a href="{ {url_for('products_page',category='Men',type='Formals')}} ">
    </a>
  </div>
<div class="carousel-item">
  <a href="{ {url_for('products_page',category='Accessories',type='Men watches')}} ">
    </a>
  </div>
<div class="carousel-item">
  <a href="{ {url_for('products_page',category='Women',type='Saree')}} ">
    </a>
  </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="container">
  <div class="row">
    <div class="col-sm-12">
      <div class="section-title">
        <div class="divider"></div>
      </div>
    </div>
  </div>
</div>
<section id="featuresec">
  <h1 style="text-align:center; text-align: center;padding: 2%;font-weight: bolder;"
class="h1style">F E A T U R E S</h1>
  <div class="container">
    <div class="row">
      <div class="col-sm">
        <h4>Free Shipping</h4>
        
        <h4>Get Free shipping on all orders</h4>
      </div>
    </div>
  </div>

```



```

    <h4>Easy Returns</h4>
    
    <h4>7 days Return Policy</h4>
  </div>
  <div class="col-sm">
    <h4>Customer Support</h4>
    
    <h4>24/7 Customer Support By our experts</h4>
  </div>
</div>
</div>
</div>
</section>
<div class="container">
  <div class="row">
    <div class="col-sm-12">
      <div class="section-title">
        <div class="divider"></div>
      </div>
    </div>
  </div>
</div>
<!--chatbot script -->
{% from 'footer.html' import footer %}
{{ footer() }}
<script>
  window.watsonAssistantChatOptions = {
    integrationID: "cba0c163-9f9a-42ce-b6e9-979ac6318cc0", // The ID of this integration.
    region: "au-syd", // The region your integration is hosted in.
    serviceInstanceID: "245858a6-01a2-41fc-8707-d603be17b8f0", // 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>
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"
integrity="sha384-

```

```
Q6E9RHvblyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo"
crossorigin="anonymous"></script>
  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.min.js"
integrity="sha384-
OgVRvuATP1z7JjHLkuOU7Xw704+h835Lr+6QL9UvYjZE3Ipu6Tp75j7Bh/kR0JKI"
crossorigin="anonymous"></script>
  <script src="{ {url_for('static',filename='script.js')} }" />
  <script src="https://kit.fontawesome.com/0a56e63d65.js" crossorigin="anonymous"></script>
</body>
</html>
```

## payment.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Sash Vogue</title>
  <link rel="icon" type="image/jpeg" href="{ {url_for('redirect_to',link='https://s3.jp-tok.cloud-object-
storage.appdomain.cloud/smartfashion2001/logo.jpeg') } }" sizes="200x200">
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css"
integrity="sha384-
xOoIHfLEh07PJGoPkLv1IbcEPTNtaed2xpHsD9ESMhqIYd0nLMwNLD69Npy4HI+N"
crossorigin="anonymous">
  <link rel="stylesheet" href="{ {url_for('static',filename='styles/products.css') } }" type="text/css">
  <link rel="stylesheet" href="{ {url_for('static',filename='styles/payment.css') } }" type="text/css">
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <script defer src="https://use.fontawesome.com/releases/v6.2.0/js/all.js"></script>
  <script defer src="https://use.fontawesome.com/releases/v5.15.4/js/all.js"></script>
  <link
href="https://fonts.googleapis.com/css2?family=Jost:wght@500&family=Quicksand:wght@300&Ale
x+Brush&display=swap" rel="stylesheet">
  <title>Fashion</title>
</head>
<!--<body style="background:url({ {url_for('static',filename='bgs/PAYMENTBG.jpg') } });background-
repeat: no-repeat; background-attachment: fixed; background-position: center; background-size:
cover; ">-->
<body
  style="background:url({ {url_for('redirect_to',link='https://s3.jp-tok.cloud-object-
storage.appdomain.cloud/smartfashion2001/hmbg.png') } });background-repeat: no-repeat;
background-attachment: fixed; background-position: center; background-size: cover; ">
  {% from 'nav.html' import usedalot %}
  {{ usedalot(uname) }}
  <div class="path" style="margin: 7% 0% 0% 5%;">
    <a href="{ {url_for('home_page') } }">Home <i class="fa-solid fa-angle-right"></i></a>
    <a href="{ {url_for('cart_page') } }">Cart<i class="fa-solid fa-angle-right"></i></a>
    <a href="">Payment</a>
```

```

</div>
{% if(birthdaycoupon ==True): % }
<h1 style="font-family: 'Alex Brush', cursive;font-weight: 800;color:#1b8981;
text-align: center;">Hey it's your birthday!!! Check out your special birthday coupon</h1>
{%endif % }
<form method="post">
<div class="main" style="display:flex;">
<div class="deliaddress">
<h2 style="font-weight: bold;">Delivery Address</h2>
<textarea id="deliaddr" rows="7" cols="100" name="address"
value="{{ request.form['address'] }}">{{ res[1] }}</textarea><br>
<h2 style="font-weight: bold;">Bill Details</h2>
<!-- Final amount to be paid is displayed -->
<h5>Bill Amount: Rs. {{ netamt|round|int }}</h5>
<input type="checkbox" id="coupon" name="coupon" value="yes"
onclick="checkcouponprice('{{ netamt }}','{{ birthdaycoupon }}')> Apply Coupon<br><br>
<p>Coupon will be offered if your amount exceeds ₹1000</p>
<h2 style="font-weight: bold;">Payment Mode</h2>
<div style="display:flex; padding: 30px;">
<button class="paymentmode" id="razpay">
<a href="{{ url_for('payment_redirect') }}"></a>
</button>
<button class="paymentmode" id="cod" data-toggle="modal" data-target="#exampleModal">
 Cash on Delivery
</button>
</div>
</div>
<div class="modal fade" id="exampleModal" tabindex="-1" role="dialog" aria-
labelledby="exampleModalLabel" aria-hidden="true">
<div class="modal-dialog" role="document">
<div class="modal-content">
<div class="modal-header">
<h5 class="modal-title" id="exampleModalLabel">Thank You for Shopping! Order
Placed!!</h5>
<button type="button" class="close" data-dismiss="modal" aria-label="Close">
<span aria-hidden="true">&times;</span>
</button>
</div>
<div class="modal-body">
Your order will be delivered on 19th November, 2022.<br>Payment Mode: Cash on
Delivery<br>Amount: Rs. 8750
</div>
<div class="modal-footer">
<button type="button" class="btn btn-secondary" data-dismiss="modal">Close</button>
<a href="{{ url_for('home_page') }}"><button type="button" class="btn btn-primary"

```

```

id="done" style="background:#8c7987; border:#8c7987">Go to Home Page </button></a>
    </div>
</div>
</div>
</div>
<div class="couponcard" style="padding:1%" id="coupondiv">
    <h3 style="font-family: 'Lora', serif;">Coupons available for you</h3>
    <div class="couponimg" style="display:flex;flex-direction:column;align-items: center;">
        {% if birthdaycoupon==True: %}
        
        {% endif %}
        
        
        
        <!--      <input type="text" placeholder="Enter the Coupon code" name="couponcode"
value="{ { request.form['couponcode'] }}">-->
        <input style="border-radius: 25px;" class="form-control mr-sm-2" placeholder="Coupon Code"
name="couponcode" value="{ { request.form['couponcode'] }}">
        <input type="submit" class="btn couponbtn" name="submit" value="Apply">
    </div>
</div>
</div>
</form>
<!-- Modal -->
<script>
window.watsonAssistantChatOptions = {
    integrationID: "cba0c163-9f9a-42ce-b6e9-979ac6318cc0", // The ID of this integration.
    region: "au-syd", // The region your integration is hosted in.
    serviceInstanceID: "245858a6-01a2-41fc-8707-d603be17b8f0", // 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);
});
function checkcouponprice(price, bdaycoupon) {
    if (price < 1000 && bdaycoupon == "False")
        window.alert("Coupon will be offered if your amount exceeds ₹1000");
    else {
        document.getElementById('coupondiv').style.visibility = "visible";
    }
}

```

```

    document.getElementById('coupon').style.visibility = "hidden";
  }
}
document.getElementById("cashon").addEventListener("click", function(event) {
  event.preventDefault()
});

document.getElementById("okdeliaddr").addEventListener("click", function(event) {
  event.preventDefault()
});
document.getElementById("addredit").addEventListener("click", function(event) {
  event.preventDefault()
});
const delibtn1 = document.getElementById('addredit');
delibtn1.addEventListener('click', () => {
  // show change button, enable textarea
  document.getElementById('deliaddr').disabled = false;
  const delibtn2 = document.getElementById('okdeliaddr');
  delibtn2.style.visibility = 'visible';
});
const delibtn2 = document.getElementById('okdeliaddr');
delibtn2.addEventListener('click', () => {
  // hide change button, disable textare
  document.getElementById('deliaddr').disabled = true;
  delibtn2.style.visibility = 'hidden';
});
<
!--
const donebtn = document.getElementById('done');
-- >
<
!--donebtn.addEventListener('click', () => {
  -- >
  <
  !-- // Go to Home Page-->
  <
  !--window.location.replace("http://192.168.1.100:5000/");
  -- >
  <
  !--
});
-- >
</script>
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"
integrity="sha384-

```

```

Q6E9RHvblyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo"
crossorigin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.min.js"
integrity="sha384-
OgVRvuATP1z7JjHLkuOU7Xw704+h835Lr+6QL9UvYjZE3Ipu6Tp75j7Bh/kR0JIKI"
crossorigin="anonymous"></script>
<script src="{ { url_for('static',filename='script.js') } }" />
<script src="https://kit.fontawesome.com/0a56e63d65.js" crossorigin="anonymous"></script>
</body>
</html>

```

## History.html

```

{% extends "base.html" %}

{% block title %}
SAM FASHIONS - Home
{% endblock %}

{% block body %}
<!-- Main Store Body -->
<div class="row">
<div class="col-sm">
<h2>History</h2>
<p>Products you bought in the last week.</p>
<table class="table table-sm">
<thead>
<tr>
<th scope="col">#</th>
<th scope="col">Item</th>
<th scope="col">Name</th>
<th scope="col">Quantity</th>
<th scope="col">Date</th>
<th scope="col"></th>
</tr>
</thead>
<tbody>
<!-- For Each shirt -->
{% for i in range(myShirtsLen) %}
<tr>
<th scope="row">{ { i + 1 } }</th>
<td></td>
<td>{ { myShirts[i]["samplename"] } }</td>
<td>{ { myShirts[i]["quantity"] } }</td>
<td>{ { myShirts[i]["date"] } }</td>
<td><a href="/filter/?id={ { myShirts[i]["id"] } }"><button type="button" class="btn btn-warning">Buy
Again</button></a></td>
</tr>
</tbody>
{% endfor %}
<tfoot>
</tfoot>
</table>
</div>

```

```

    </div>
</div>
</main>

```

```
{% endblock % }
```

## Index.html

### SAM FASHIONS - Home

```
{% endblock % }
```

```
{% block body % }
```

```
<!-- Main Store Body -->
```

```
{% if session['user'] % }
```

```
<div class="alert alert-warning alert-dismissible fade show" role="alert">
```

```
<button type="button" class="close" data-dismiss="alert" aria-label="Close">
```

```
<span aria-hidden="true">&times;</span>
```

```
</button>
```

```
<strong>WELCOME, {{ session['user'] }}</strong> HAVE A HAPPY SHOPPING TIME
```

```
</div>
```

```
{% endif % }
```

```
<div class="row" id="shirtCard">
```

```
{% for i in range(shirtsLen) % }
```

```
<div class="col-sm">
```

```
<div class="card text-center">
```

```
<div class="card-body">
```

```
<form action="/buy/" methods="POST">
```

```
<h5 class="card-title">{{ shirts[i]["typeClothes"].capitalize() }}</h5>
```

```

```

```
<h5 class="card-text">{{ shirts[i]["samplername"] }}</h5>
```

```
{% if shirts[i]["onSale"] % }
```

```

```

```
<h4 class="card-text price" style="color:red; display:inline">{{
```

```
{% if shirts[i]["onSalePrice"] % }}</h4>
```

```
{% else % }
```

```
<h4 class="card-text price">{{ '{:,.2f}'.format(shirts[i]["price"]) }}</h4>
```

```
{% endif % }
```

```
<div class="stepper-input">
```

```
<span class="decrement target">-</span>
```

```
<input class="quantity" name="quantity" value="0" />
```

```
<span class="increment target">+</span>
```

```
</div>
```

```
<input type="hidden" name="id" value="{{ shirts[i]["id"] }}" />
```

```
{% if not session % }
```

```
<input type="hidden" name="loggedin" value="0" />
```

```
{% else % }
```

```
<input type="hidden" name="loggedin" value="1" />
```

```
{% endif % }
```

```
<input type="submit" class="btn btn-primary addToCart" value="Add To Cart" /><br /><br />
```

```
<div class="alert alert-danger flashMessage" style="text-align: center; display:none; font-size:0.9em;"></div>
```

```
</form>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
{% endfor % }
```

```
</div>
```



```

</div>
</main>

{% endblock %}

```

## New.html

```

<!DOCTYPE html>
<html lang="en">
<head>
<meta content="text/html; charset=utf-8" http-equiv="Content-Type">
<meta content="utf-8" http-equiv="encoding">
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
<meta name="theme-color" content="#87CEEB">
<link rel="shortcut icon" href="%PUBLIC_URL%/favicon.ico">
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
<link href="{ { url_for('static', filename='css/custom.css') } }" rel="stylesheet" type="text/css" />
<script defer src="https://use.fontawesome.com/releases/v5.0.6/js/all.js"></script>
<script src="https://code.jquery.com/jquery-1.11.0.min.js"></script>

<title>SAM FASHIONS - Register</title>
</head>
<body>
<header>
<nav class="navbar fixed-top navbar-dark bg-dark navbar-expand-sm box-shadow">
<a href="/" class="navbar-brand d-flex align-items-center">
<strong><i class="fa fa-shopping-bag"></i>SAM FASHIONS </strong>
</a>
</nav>
</header><br />
<main>
<div class="container">
<div class="row">
<div class="col-sm">
<h2>Register</h2>
<p>{ { msg } }</p>
<form action="/register/" class="form" method="post">
<input type="text" name="username" id="username" placeholder="Username" autofocus required
> <span id="user-msg" class="alert alert-danger"></span><br /><br />
<input type="password" name="password" id="password" placeholder="Password" required >
<span id="password-msg" class="alert alert-danger"></span><br /><br />
<input type="password" name="confirm" id="confirm" placeholder="Confirm Password"
required> <span id="confirm-msg" class="alert alert-danger"></span><br /><br />
<input type="text" name="fname" id="fname" placeholder="First Name" required> <span
id="fname-msg" class="alert alert-danger"></span><br /><br />
<input type="text" name="lname" id="lname" placeholder="Last Name" required> <span
id="lname-msg" class="alert alert-danger"></span><br /><br />
<input type="email" name="email" id="email" placeholder="Email" required> <span id="email-
msg" class="alert alert-danger"></span><br /><br /><br />
<button type="reset" class="btn btn-secondary">Clear</button>
<button type="submit" id="submit" class="btn btn-primary">Register</button>
</form>
</div>
</div>
</div>

```

```
</main>
<!-- Custom JS Scripts -->
  <script src="{ { url_for('static',filename='js/validate.js') } }"></script>
</body>
</html>
```

## **GitHub & Project Demo Link**

GitHub Link: [IBM-EPBL/IBM-Project-32699-1660211481: Smart Fashion Recommender Application \(github.com\)](https://github.com/IBM-EPBL/IBM-Project-32699-1660211481)

PPT Video Link: <https://uploadnow.io/f/mqqXrXR>