SMART FASHION RECOMMENDER APPLICATION

IBM – DOCUMENTATION

UNDER THE GUIDANCE OF

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S.NO	TABLE OF CONTENT	TABL
		E OF
		CONT
1	INTRODUCTION	ENT 1
1.1	PROJECT OVERVIEW	1
1.2	PURPOSE	1
2	LITERATURE SURVEY	2
2.1	EXISTING PROBLEM	2
2.1	EXISTINGTROBLEM	2
2.2	REFERENCES	3
2.3	PROBLEM STATEMENT DEFINITION	3
3	IDEATION & PROPOSED SOLUTION	4
3.1	EMPATHY MAP CANVAS	4
3.2	IDEATION & BRAINSTORMING	4
3.3	PROPOSED SOLUTION	5
3.4	PROBLEM SOLUTION FIT	6
4	REQUIREMENT ANALYSIS	7
4.1	FUNCTIONAL REQUIREMENT	7
4.2	NON-FUNCTIONAL REQUIREMENT	7
5	PROJECT DESIGN	8
5.1	DATA FLOW DIAGRAM	8
5.2	SOLUTION & TECHNICAL ARCHITECTURE	8
5.3	USER STORIES	9
6	PROJECT PLANNING & SCHEDULING	10
6	PROJECT PLANNING & SCHEDULING	10
6.2	SPRINT DELIVERY SCHEDULE	10
6.3	REPORTS FROM JIRA	11
7	CODING & SOLUTIONING	12
7.1	FEATURE 1	12

7.2	DATABASE SCHEMA	13
8	TESTING	14
8.1	TEST CASES	14
8.2	USER ACCEPTANCE TESTING	15
9	RESULTS	16
9.1	PERFORMANCE METRICS	16
10	ADVANTAGES & DISADVANTAGES	17
11	CONCLUSION	18
12	FUTURE SCOPE	19
13	APPENDIX	20
13.1	SOURCE CODE	20
13.2	GITHUB REPOSITORY & DEMO LINK	43

1. INTRODUCTION

1.1 PROJECT OVERVIEW

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

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

In this project you will be working on two modules:

- 1. Admin and
- 2. User

Admin:

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

User:

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

1.2 PURPOSE

- a) Using chatbot we can manage user's choices and orders.
- b) The chatbot can give recommendations to the users based on their interests.
- c) It can promote the best deals and offers on that day.
- d) It will store the customer's details and orders in the database.
- e) The chatbot will send a notification to customers if the order is confirmed.
- f) Chatbots can also help in collecting customer feedback.

2. LITERATURE SURVEY

2.1 EXISTING PROBLEM

1. Fashion item representation

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

2. Fashion item compatibility

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

3. Personalization and fit

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

4. Interpretability and explanation

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

5. Discovering trends

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

2.2 REFERENCES

"A Systematic Study on the Recommender Systems in the E-Commerce"

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

2.3 PROBLEM STATEMENT DEFINITION

Problem Statement 1:

The User Needs a way to Find Trending Fashion Clothes so that Here find the All Collections Problem Statement 2:

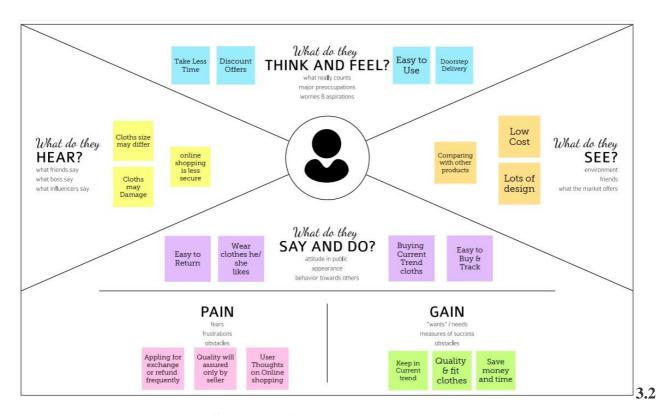
The User Needs a way to Find Offers and Discounts so that Here User easy to find Daily Offers Problem Statement 3:

The User Needs a way to Assistant for finding Clothes so that Here User got the Chat Bot assistant Problem Statement 4:

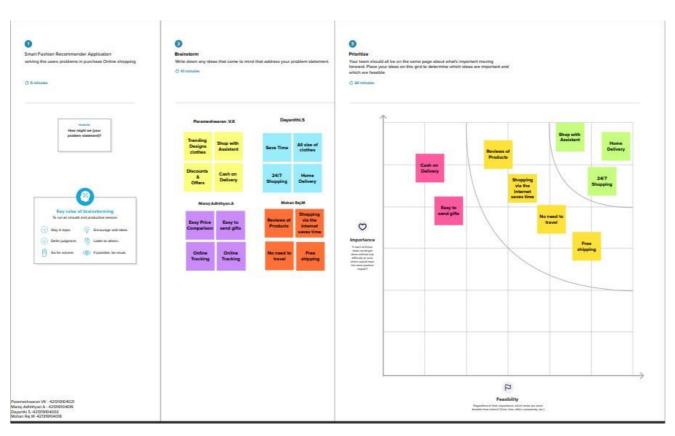
The Sellers Needs a way to struggling to sells products offline so that Here Sellers will Sell Products via our application.

3. IDEATION & PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS



3.2 IDEATION & BRAINSTORMING



3.3 PROPOSED SOLUTION

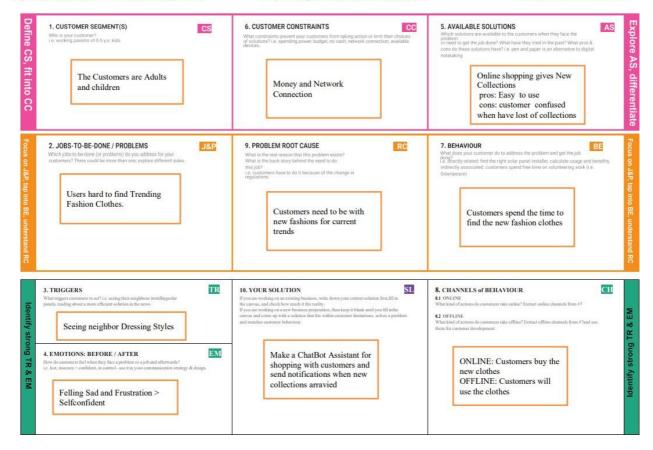
S. No	Parameter	Description
1.	Problem Statement (Problem to be solved)	Customers feels difficult when Search many websites to find Fashion clothes and accessories.
2.	Idea / Solution description	Customers directly make online shopping based on customer choice without any search.
3.	Novelty / Uniqueness	The customer will talk to Chat Bot regarding the Products. Get the recommendations based on information provided by the user
4.	Social Impact / Customer Satisfaction	The user friendly interface, Assistants form chat bot finding dress makes customer satisfied.
5.	Business Model (Revenue Model)	The chat bot sells our Products to customer. Customers buy our products and generate revenue
6.	Scalability of the Solution	We can easily scalable our Applications by increases the items and products

3.4 PROBLEM SOLUTION FIT

Project Title: Smart Fashion Recommender Application

Project Design Phase-I - Solution Fit Template

Team ID: PNT2022TMID38912



4. REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENTS

Following are the functional requirements of the proposed solution.

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

4.2NON-FUNCTIONAL REQUIREMENTS

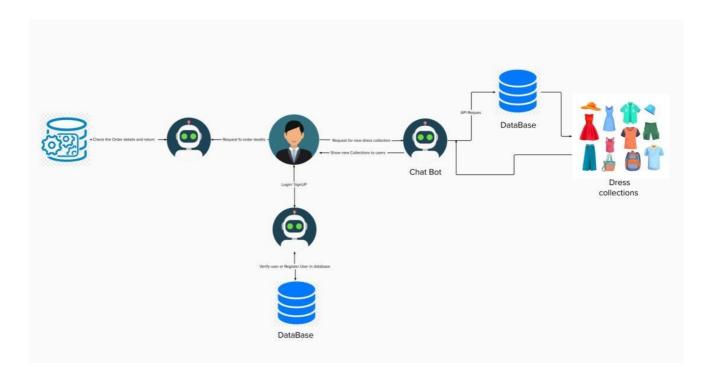
Following are the non-functional requirements of the proposed solution.

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

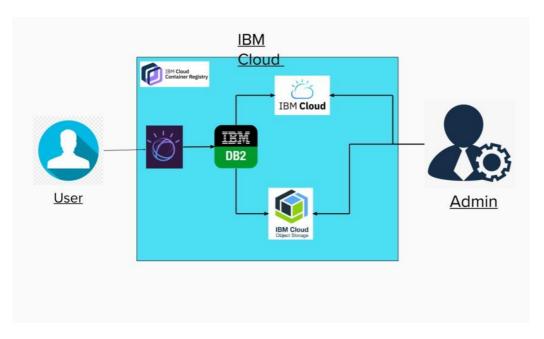
5. PROJECT DESIGN

5.1DATA FLOW DIAGRAMS

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



5.2 SOLUTION & TECHNICAL ARCHITECTURE



5.3 USER STORIES

User Stories

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

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can access my data by login	High	Sprint-1
	Dashboard	USN-6	As a user , I can view the dashboard and by products		High	Sprit -2
Customer (Web user)	Registration / Login	USN-7	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard		Sprint -1
Customer Care Executive	Contact with Customers	USN-8	As a Customer customers care executive, I solve the customer Requirements and feedback	I can receive calls from customers	High	Sprint-1
Administrator	Check stock and Price , orders	USN_9	As a Administrator , I can Check the database And stock details and buying and selling prices	I am the administrator of the company	High	Sprint -2

6. PROJECT PLANNING & SCHEDULING

6.1 SPRINT PLANNING & ESTIMATION

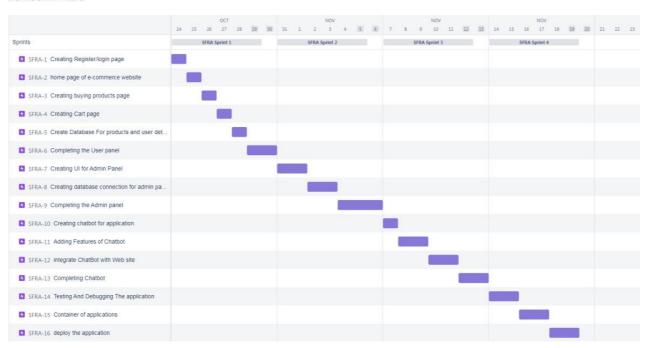
Sprint	Functional Requirement(Epic)	Use Story Number	User Story Task	Story Points	Priority	Team Members
Sprint-1	User Panel	USN-1	The user will login into the website and go through the products available on the website	20	High	ANUPADMA S JAYA SHERIN J PREETHA R SELIN MARY S SHEELA V
Sprint-2	Admin panel	USN-2	The role of the admin check out the data base about the stock and have a track of all the things that users are purchasing	20	High	ANUPADMA S JAYA SHERIN J PREETHA R SELIN MARY S SHEELA V
Sprint-3	Chat Bot	USN-3	The user can directly talk to cahtbot regarding the products.Get the recommendations based on information provided by the user.	20	High	ANUPADMA S JAYA SHERIN J PREETHA R SELIN MARY S SHEELA V
Sprint-4	Final delivery	USN-4	Contanier the applications using docker kubernetes ans deployment the application. Create the documentation and final sunmit the application	20	High	ANUPADMA S JAYA SHERIN J PREETHA R SELIN MARY S SHEELA V

6.2 SPRINT DELIEVERY SCHEDULE

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

6.3REPORTS FROM JIRA

Burndown Chart:



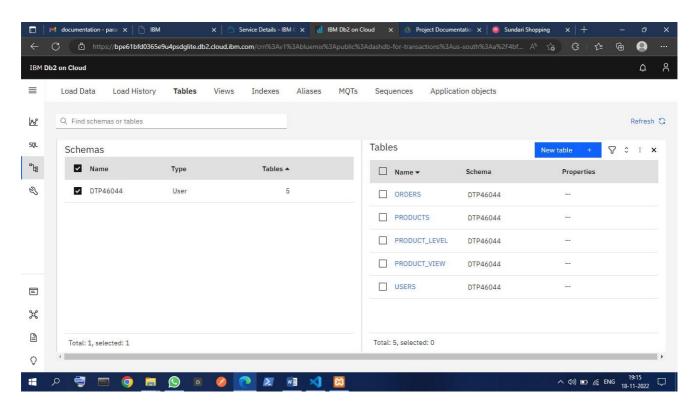
7.CODING & SOLUTIONING

7.1 FEATURE 1

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



7.2 DATABASE SCHEMA



8.TESTING

8.1 TEST CASES

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

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

8.2 USER ACCEPTANCE TESTING

Purpose of Document

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

Defect Analysis

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

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

9.RESULT

9.1 PERFORMANCE METRICS

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

					NFT - Risk Asse	ssment			
S.No	Project Name	Scope/feature	Functional Changes	Hardware Changes	Software Changes	Impact of Downtime	Load/Voluem Changes	Risk Score	Justification
1	Smart Fashion Recommender Application	New	Low	No Changes	Moderate		>5 to 10%	ORANGE	As we have seen the chnages
					NFT - Detailed 1	est Plan			
			S.No	Project Overview	NFT Test approach	Assumptions/Dependencies/Risks	Approvals/SignOff		
			1	Smart Fashion Recommender Application	Manual testing	laptop or mobile with internet connection	n vkparameshwaran		
								_	
	()	End Of Test F	leport			aV
					8 X		Identified Defects	10 00	
S.No	Project Overview	NFT Test approach	NFR - Met	Test Outcome	GO/NO-GO decision	Recommendations	(Detected/Closed/Open)	Approvals/SignOff	
	Smart Fashion Recommender Application	Manule		Worked as we expected		Use Laptop / desktop Mode	No Defects	Vkparameshwaran	

10.ADVANTAGES & DISADVANTAGES

ADVANTAGES:

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

DISADVANTAGES:

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

11.CONCLUSION

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

12.FUTURE SCOPE

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

13.APPENDIX

13.1 SOURCECODE

Home.html

```
<!DOCTYPE html>
<html lang="en">
 <head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
   href="https://fonts.googleapis.com/css?family=Roboto&display=swap"
   rel="stylesheet"
  />
  link
   rel="stylesheet"
   href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.13.0/css/all.min.css"
  <link rel="stylesheet" href="/static/style2.css" />
  <title>Fashion</title>
 </head>
 <body>
  <header>
   <nav>
    <div class="logo">
     <h1>FASHION</h1>
    </div>
    <a href="#" class="link">HOME</a>
     <a href="#" class="link">COLLECTION</a>
     <a href="#" class="link">CONTACT US</a>
     <a href="#" class="link">ABOUT US</a>
    <div class="nav-btns">
     <a href="#" class="btn-nav-i"><i class="fas fa-cart-plus"></i>
     <a href="#" class="btn-nav-i"><i class="fas fa-search"></i></a>
    </div>
   </nav>
   <div class="main">
    <div class="main-left">
     <div class="social-media">
      <a href="#" class="s-btn"><i class="fab fa-facebook-f"></i></a>
      <a href="#" class="s-btn"><i class="fab fa-twitter"></i></a>
      <a href="#" class="s-btn"><i class="fab fa-instagram"></i></a>
     </div>
     <div class="banner">
                                                 20
      <div class="f-text">
```

```
<h1>
         FASHION
         <br/>br />
         <span>MADE</span>
         <br />
         SIMPLE.
        </h1>
       </div>
      <a href="/login" class="btn" >LOGIN TO SHOP </a>
    </div>
    <div class="main-right">
     <img src="/static/background.jpg" />
    </div>
   </div>
  </header>
 </body>
</html>
```

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Complete Responsive Fashion Website Design Tutorial</title>
  k rel="stylesheet" href="https://unpkg.com/swiper@7/swiper-bundle.min.css" />
  <link rel="stylesheet" href="static/style.css">
</head>
<body>
<header class="header">
  <a href="#" class="logo"> <i class="fas fa-shopping-cart"></i> shopme </a>
  <nav class="navbar">
  <a href="#home">home</a>
    <a href="#products">products</a>
    <a href="#featured">featured</a>
    <a href="#review">review</a>
    <a href="#contact">contact</a>
    <a href="#blogs">blogs</a>
  </nav>
  <div class="icons">
  <div id="menu-btn" class="fas fa-bars"></div>
    <div id="search-btn" class="fas fa-search"></div>
    <a href="#" class="fas fa-shopping-cart"></a>
```

```
<form action="" class="search-form">
               <input type="search" name="" placeholder="search here..." id="search-box">
               <label for="search-box" class="fas fa-search"></label>
            </form>
          </header>
          <section class="home" id="home">
            <div class="swiper home-slider">
               <div class="swiper-wrapper">
                 <div class="swiper-slide slide" style="background:url(static/banner1.jpg) no-repeat">
                   <div class="content">
                      <span>upto 50% off</span>
                      <h3>women's Fashion</h3>
                      <a href="#" class="btn">shop now</a>
                    </div>
                 </div>
                 <div class="swiper-slide slide" style="background:url(static/banner2.jpg) no-repeat">
                   <div class="content">
                      <span>upto 50% off</span>
                      <h3>men's Fashion</h3>
                      <a href="#" class="btn">shop now</a>
                   </div>
                 </div>
                 <div class="swiper-slide slide" style="background:url(static/banner3.jpg) no-repeat">
                   <div class="content">
                      <span>upto 50% off</span>
                      <h3>kid's Fashion</h3>
                      <a href="#" class="btn">shop now</a>
                   </div>
                 </div>
               </div>
               <div class="swiper-button-next"></div>
               <div class="swiper-button-prev"></div>
            </div>
          </section>
           <section class="banner-container">
             <div class="banner">
<img src="static/shop_banner_img1.jpg" alt="">
            <div class="content">
                  <span>special offer</span>
                 <h3>upto 50% off</h3>
                 <a href="#" class="btn">shop now</a>
               </div>
            </div>
             <div class="banner">
               <img src="static/shop_banner_img2.jpg" alt="">
               <div class="content">
                  <span>special offer</span>
                                                               22
                 <h3>upto 50% off</h3>
```



```
<a href="#" class="btn">shop now</a>
                 </div>
</div>
</section>
<section class="products" id="products">
               <h1 class="heading"> exclusive <span>products</span> </h1>
               <div class="filter-buttons">
                 <div class="buttons active" data-filter="all">all</div>
                 <div class="buttons" data-filter="arrivals">new arrivals</div>
                 <div class="buttons" data-filter="featured">featured</div>
                 <div class="buttons" data-filter="special">special offer</div>
                 <div class="buttons" data-filter="seller">best seller</div>
               </div>
               <div class="box-container">
                 <div class="box" data-item="featured">
                 <div class="icons">
                      <a href="#" class="fas fa-shopping-cart"></a>
                      <a href="#" class="fas fa-heart"></a>
                      <a href="#" class="fas fa-search"></a>
                      <a href="#" class="fas fa-eye"></a>
                    </div>
                    <div class="image">
                      <img src="static/product_img1.jpg" alt="">
                    </div>
                    <div class="content">
                      <h3>product name</h3>
                      <div class="price">
                         <div class="amount">₹1000.00</div>
                         <div class="cut">₹800</div>
                         <div class="offer">20% off</div>
                      </div>
                      <div class="stars">
                         <i class="fas fa-star"></i>
                         <i class="fas fa-star"></i>
                         <i class="fas fa-star"></i>
                         <i class="fas fa-star"></i>
                         <i class="far fa-star"></i>
                         <span>(50)</span>
                      </div>
                    </div>
                 </div>
                 <div class="box" data-item="special">
                    <div class="icons">
```

```
<a href="#" class="fas fa-shopping-cart"></a>
    <a href="#" class="fas fa-heart"></a>
    <a href="#" class="fas fa-search"></a>
    <a href="#" class="fas fa-eye"></a>
  </div>
  <div class="image">
    <img src="static/product_img2.jpg" alt="">
  <div class="content">
    <h3>product name</h3>
    <div class="price">
       <div class="amount">₹1000.00</div>
       <div class="cut">₹800</div>
       <div class="offer">20% off</div>
    </div>
    <div class="stars">
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="far fa-star"></i>
       <span>(50)</span>
    </div>
  </div>
</div>
<div class="box" data-item="seller">
  <div class="icons">
    <a href="#" class="fas fa-shopping-cart"></a>
    <a href="#" class="fas fa-heart"></a>
    <a href="#" class="fas fa-search"></a>
    <a href="#" class="fas fa-eye"></a>
  </div>
  <div class="image">
    <img src="static/product_img3.jpg" alt="">
  </div>
  <div class="content">
    <h3>product name</h3>
    <div class="price">
       <div class="amount">₹1000.00</div>
       <div class="cut">₹800</div>
       <div class="offer">20% off</div>
    </div>
    <div class="stars">
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="far fa-star"></i>
       <span>(50)</span>
    </div>
```

</div>

```
</div>
```

```
<div class="box" data-item="arrivals">
  <div class="icons">
    <a href="#" class="fas fa-shopping-cart"></a>
    <a href="#" class="fas fa-heart"></a>
    <a href="#" class="fas fa-search"></a>
    <a href="#" class="fas fa-eye"></a>
  </div>
  <div class="image">
    <img src="static/product_img4.jpg" alt="">
  </div>
  <div class="content">
    <h3>product name</h3>
    <div class="price">
       <div class="amount">₹1000.00</div>
       <div class="cut">₹800</div>
       <div class="offer">20% off</div>
    </div>
    <div class="stars">
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="far fa-star"></i>
       <span>(50)</span>
    </div>
  </div>
</div>
<div class="box" data-item="featured">
  <div class="icons">
    <a href="#" class="fas fa-shopping-cart"></a>
    <a href="#" class="fas fa-heart"></a>
    <a href="#" class="fas fa-search"></a>
    <a href="#" class="fas fa-eye"></a>
  </div>
  <div class="image">
    <img src="static/product_img5.jpg" alt="">
  </div>
  <div class="content">
    <h3>product name</h3>
    <div class="price">
       <div class="amount">₹1000.00</div>
       <div class="cut">₹800</div>
       <div class="offer">20% off</div>
    </div>
     <div class="stars">
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
```

```
<i class="far fa-star"></i>
       <span>(50)</span>
    </div>
  </div>
</div>
<div class="box" data-item="arrivals">
  <div class="icons">
    <a href="#" class="fas fa-shopping-cart"></a>
    <a href="#" class="fas fa-heart"></a>
    <a href="#" class="fas fa-search"></a>
    <a href="#" class="fas fa-eye"></a>
  </div>
  <div class="image">
    <img src="static/product_img6.jpg" alt="">
  </div>
  <div class="content">
    <h3>product name</h3>
    <div class="price">
       <div class="amount">₹1000.00</div>
       <div class="cut">₹800</div>
       <div class="offer">20% off</div>
    </div>
    <div class="stars">
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="far fa-star"></i>
       <span>(50)</span>
    </div>
  </div>
</div>
<div class="box" data-item="special">
  <div class="icons">
    <a href="#" class="fas fa-shopping-cart"></a>
    <a href="#" class="fas fa-heart"></a>
    <a href="#" class="fas fa-search"></a>
    <a href="#" class="fas fa-eye"></a>
  </div>
  <div class="image">
    <img src="static/product_img7.jpg" alt="">
  </div>
  <div class="content">
    <h3>product name</h3>
    <div class="price">
       <div class="amount">₹1000.00</div>
       <div class="cut">₹800</div>
       <div class="offer">20% off</div>
```

```
</div>
    <div class="stars">
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="far fa-star"></i>
       <span>(50)</span>
    </div>
  </div>
</div>
<div class="box" data-item="seller">
  <div class="icons">
    <a href="#" class="fas fa-shopping-cart"></a>
    <a href="#" class="fas fa-heart"></a>
    <a href="#" class="fas fa-search"></a>
    <a href="#" class="fas fa-eye"></a>
  <div class="image">
    <img src="static/product_img8.jpg" alt="">
  </div>
  <div class="content">
    <h3>product name</h3>
    <div class="price">
       <div class="amount">₹1000.00</div>
       <div class="cut">₹800</div>
       <div class="offer">20% off</div>
    </div>
    <div class="stars">
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="far fa-star"></i>
       <span>(50)</span>
    </div>
  </div>
</div>
<div class="box" data-item="seller">
  <div class="icons">
    <a href="#" class="fas fa-shopping-cart"></a>
    <a href="#" class="fas fa-heart"></a>
    <a href="#" class="fas fa-search"></a>
    <a href="#" class="fas fa-eye"></a>
  </div>
  <div class="image">
    <img src="static/product_img9.jpg" alt="">
  </div>
                                                 27
  <div class="content">
```

```
<h3>product name</h3>
    <div class="price">
       <div class="amount">₹1000.00</div>
       <div class="cut">₹800</div>
       <div class="offer">20% off</div>
    </div>
    <div class="stars">
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="far fa-star"></i>
       <span>(50)</span>
    </div>
  </div>
</div>
<div class="box" data-item="featured">
  <div class="icons">
    <a href="#" class="fas fa-shopping-cart"></a>
    <a href="#" class="fas fa-heart"></a>
    <a href="#" class="fas fa-search"></a>
    <a href="#" class="fas fa-eye"></a>
  </div>
  <div class="image">
    <img src="static/product_img10.jpg" alt="">
  </div>
  <div class="content">
    <h3>product name</h3>
    <div class="price">
       <div class="amount">₹1000.00</div>
       <div class="cut">₹800</div>
       <div class="offer">20% off</div>
    </div>
    <div class="stars">
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="far fa-star"></i>
       <span>(50)</span>
    </div>
  </div>
</div>
<div class="box" data-item="special">
  <div class="icons">
    <a href="#" class="fas fa-shopping-cart"></a>
    <a href="#" class="fas fa-heart"></a>
    <a href="#" class="fas fa-search"></a>
    <a href="#" class="fas fa-eye"></a>
  </div>
```

```
<div class="image">
    <img src="static/product_img11.jpg" alt="">
  </div>
  <div class="content">
    <h3>product name</h3>
    <div class="price">
       <div class="amount">₹1000.00</div>
       <div class="cut">₹800</div>
       <div class="offer">20% off</div>
    </div>
    <div class="stars">
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="far fa-star"></i>
       <span>(50)</span>
    </div>
  </div>
</div>
<div class="box" data-item="seller">
  <div class="icons">
    <a href="#" class="fas fa-shopping-cart"></a>
    <a href="#" class="fas fa-heart"></a>
    <a href="#" class="fas fa-search"></a>
    <a href="#" class="fas fa-eye"></a>
  </div>
  <div class="image">
    <img src="static/product_img12.jpg" alt="">
  <div class="content">
    <h3>product name</h3>
    <div class="price">
       <div class="amount">₹1000.00</div>
       <div class="cut">₹800</div>
       <div class="offer">20% off</div>
    </div>
    <div class="stars">
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="far fa-star"></i>
       <span>(50)</span>
    </div>
  </div>
</div>
```

</div>

```
<section class="deal">
  <div class="image">
    <img src="static/tranding_img.png" alt="">
  </div>
  <div class="content">
    <span>new season trending!</span>
    <h3>best summer collection</h3>
    sale get up to 50% off
    <a href="#" class="btn">shop now</a>
  </div>
</section>
<section class="featured" id="featured">
  <h1 class="heading"> <span>featured</span> products </h1>
  <div class="swiper featured-slider">
     <div class="swiper-wrapper">
       <div class="swiper-slide slide">
          <div class="icons">
            <a href="#" class="fas fa-shopping-cart"></a>
            <a href="#" class="fas fa-heart"></a>
            <a href="#" class="fas fa-search"></a>
            <a href="#" class="fas fa-eye"></a>
         </div>
         <div class="image">
            <img src="static/product_img1.jpg" alt="">
         </div>
         <div class="content">
            <h3>product name</h3>
            <div class="price">
              <div class="amount">₹1000.00</div>
              <div class="cut">₹800</div>
              <div class="offer">20% off</div>
            </div>
            <div class="stars">
              <i class="fas fa-star"></i>
              <i class="fas fa-star"></i>
              <i class="fas fa-star"></i>
              <i class="fas fa-star"></i>
                                                    30
              <i class="far fa-star"></i>
```

</section>

```
<span>(50)</span>
     </div>
  </div>
</div>
<div class="swiper-slide slide">
  <div class="icons">
     <a href="#" class="fas fa-shopping-cart"></a>
     <a href="#" class="fas fa-heart"></a>
     <a href="#" class="fas fa-search"></a>
     <a href="#" class="fas fa-eye"></a>
  </div>
  <div class="image">
     <img src="static/product_img2.jpg" alt="">
  </div>
  <div class="content">
     <h3>product name</h3>
     <div class="price">
       <div class="amount">₹1000.00</div>
       <div class="cut">₹800</div>
       <div class="offer">20% off</div>
     </div>
     <div class="stars">
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="fas fa-star"></i>
       <i class="far fa-star"></i>
       <span>(50)</span>
    </div>
  </div>
</div>
<div class="swiper-slide slide">
  <div class="icons">
     <a href="#" class="fas fa-shopping-cart"></a>
     <a href="#" class="fas fa-heart"></a>
     <a href="#" class="fas fa-search"></a>
     <a href="#" class="fas fa-eye"></a>
  </div>
  <div class="image">
     <img src="static/product_img3.jpg" alt="">
  </div>
  <div class="content">
     <h3>product name</h3>
     <div class="price">
       <div class="amount">₹1000.00</div>
       <div class="cut">₹800</div>
       <div class="offer">20% off</div>
     </div>
                                              31
     <div class="stars">
```

```
<i class="fas fa-star"></i>
                           <i class="fas fa-star"></i>
                           <i class="fas fa-star"></i>
                           <i class="fas fa-star"></i>
                           <i class="far fa-star"></i>
                           <span>(50)</span>
                         </div>
                      </div>
                    </div>
                    <div class="swiper-slide slide">
                      <div class="icons">
                         <a href="#" class="fas fa-shopping-cart"></a>
                         <a href="#" class="fas fa-heart"></a>
                         <a href="#" class="fas fa-search"></a>
                         <a href="#" class="fas fa-eye"></a>
                      </div>
                      <div class="image">
                         <img src="static/product_img4.jpg" alt="">
</div>
                      <div class="content">
                         <h3>product name</h3>
                         <div class="price">
                           <div class="amount">₹1000.00</div>
                           <div class="cut">₹800</div>
                           <div class="offer">20% off</div>
                         </div>
                         <div class="stars">
                           <i class="fas fa-star"></i>
                           <i class="fas fa-star"></i>
                           <i class="fas fa-star"></i>
                           <i class="fas fa-star"></i>
                           <i class="far fa-star"></i>
                           <span>(50)</span>
                         </div>
                      </div>
                    </div>
                    <div class="swiper-slide slide">
                      <div class="icons">
                         <a href="#" class="fas fa-shopping-cart"></a>
                         <a href="#" class="fas fa-heart"></a>
                         <a href="#" class="fas fa-search"></a>
                         <a href="#" class="fas fa-eye"></a>
                      </div>
                      <div class="image">
                         <img src="static/product_img5.jpg" alt="">
                      </div>
                      <div class="content">
                         <h3>product name</h3>
                         <div class="price">
                                                                  32
                           <div class="amount">₹1000.00</div>
```

```
<div class="cut">₹800</div>
            <div class="offer">20% off</div>
         </div>
         <div class="stars">
            <i class="fas fa-star"></i>
            <i class="fas fa-star"></i>
            <i class="fas fa-star"></i>
            <i class="fas fa-star"></i>
            <i class="far fa-star"></i>
            <span>(50)</span>
         </div>
       </div>
    </div>
    <div class="swiper-slide slide">
       <div class="icons">
         <a href="#" class="fas fa-shopping-cart"></a>
         <a href="#" class="fas fa-heart"></a>
         <a href="#" class="fas fa-search"></a>
         <a href="#" class="fas fa-eye"></a>
       </div>
       <div class="image">
         <img src="static/product_img6.jpg" alt="">
       </div>
       <div class="content">
         <h3>product name</h3>
         <div class="price">
            <div class="amount">₹1000.00</div>
            <div class="cut">₹800</div>
            <div class="offer">20% off</div>
         </div>
         <div class="stars">
            <i class="fas fa-star"></i>
            <i class="fas fa-star"></i>
            <i class="fas fa-star"></i>
            <i class="fas fa-star"></i>
            <i class="far fa-star"></i>
            <span>(50)</span>
         </div>
       </div>
    </div>
  </div>
  <div class="swiper-button-next"></div>
  <div class="swiper-button-prev"></div>
</div>
```

```
<section class="review" id="review">
  <h1 class="heading"> client's <span>review</span> </h1>
  <div class="swiper review-slide">
    <div class="swiper-wrapper">
       <div class="swiper-slide slide">
         Lorem ipsum dolor sit amet, consectetur adipisicing elit. Consequuntur veniam deserunt
praesentium natus quibusdam ea nam commodi.
          <div class="user">
            <img src="static/pic-1.png" alt="">
            <div class="info">
              <h3>john deo</h3>
              <span>happy client</span>
            </div>
         </div>
       </div>
       <div class="swiper-slide slide">
         Lorem ipsum dolor sit amet, consectetur adipisicing elit. Consequuntur veniam deserunt
praesentium natus quibusdam ea nam commodi.
         <div class="user">
            <img src="static/pic-2.png" alt="">
            <div class="info">
              <h3>john deo</h3>
              <span>happy client</span>
            </div>
         </div>
       </div>
       <div class="swiper-slide slide">
         Lorem ipsum dolor sit amet, consectetur adipisicing elit. Consequuntur veniam deserunt
praesentium natus quibusdam ea nam commodi.
         <div class="user">
            <img src="static/pic-3.png" alt="">
            <div class="info">
              <h3>john deo</h3>
              <span>happy client</span>
           </div>
         </div>
       </div>
       <div class="swiper-slide slide">
         Lorem ipsum dolor sit amet, consectetur 3dipisicing elit. Consequentur veniam deserunt
praesentium natus quibusdam ea nam commodi.
```

```
<div class="user">
            <img src="static/pic-4.png" alt="">
            <div class="info">
              <h3>john deo</h3>
              <span>happy client</span>
            </div>
         </div>
       </div>
       <div class="swiper-slide slide">
         Lorem ipsum dolor sit amet, consectetur adipisicing elit. Consequuntur veniam deserunt
praesentium natus quibusdam ea nam commodi.
         <div class="user">
            <img src="static/pic-5.png" alt="">
            <div class="info">
              <h3>john deo</h3>
              <span>happy client</span>
            </div>
         </div>
       </div>
       <div class="swiper-slide slide">
         Lorem ipsum dolor sit amet, consectetur adipisicing elit. Consequuntur veniam deserunt
praesentium natus quibusdam ea nam commodi.
         <div class="user">
            <img src="static/pic-6.png" alt="">
            <div class="info">
              <h3>john deo</h3>
              <span>happy client</span>
            </div>
         </div>
       </div>
    </div>
  </div>
</section>
<section class="contact" id="contact">
  <h1 class="heading"> <span>contact</span> us </h1>
  <div class="icons-container">
    <div class="icons">
       <i class="fas fa-map-marker-alt"></i>
       <h3>address</h3>
       >jogeshwari, mumbai, india - 400104
```

```
</div>
    <div class="icons">
      <i class="fas fa-envelope"></i>
      <h3>email</h3>
      shaikhanas@gmail.com
      anasbhai@gmail.com
    </div>
    <div class="icons">
      <i class="fas fa-phone"></i>
      <h3>phone</h3>
      +123-456-7890
      +111-222-3333
    </div>
 </div>
 <div class="row">
    <form action="">
      <h3>get in touch</h3>
      <div class="inputBox">
        <input type="text" placeholder="your name">
        <input type="email" placeholder="your email">
      </div>
      <div class="inputBox">
        <input type="number" placeholder="your number">
        <input type="text" placeholder="your subject">
      </div>
      <textarea placeholder="your message" cols="30" rows="10"></textarea>
      <input type="submit" value="send message" class="btn">
    </form>
    <iframe class="map"
61!3d11.011701573390447!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.1!3m3!1m2!1s0x3ba859af2f971cb5\%3A
0x2fc1c81e183ed282!2sCoimbatore%2C%20Tamil%20Nadu!5e0!3m2!1sen!2sin!4v1668834937237!5m2!1sen
!2sin" allowfullscreen="" loading="lazy"></iframe>
  </div>
</section>
<section class="blogs" id="blogs">
 <h1 class="heading"> our <span>blogs</span></h1>36
```

```
<div class="swiper blogs-slider">
  <div class="swiper-wrapper">
     <div class="swiper-slide slide">
       <div class="image">
         <img src="static/blog-1.jpg" alt="">
       </div>
       <div class="content">
         <h3>blog title goes here</h3>
         Lorem ipsum dolor sit amet consectetur adipisicing elit. Dolore.
         <a href="#" class="btn">read more</a>
         <div class="icons">
            a href="#"> <i class="fas fa-calendar"></i> 21st may, 2022 </a>
            <a href="#"> <i class="fas fa-user"></i> by admin </a>
         </div>
       </div>
     </div>
     <div class="swiper-slide slide">
       <div class="image">
          <img src="static/blog-2.jpg" alt="">
       </div>
       <div class="content">
         <h3>blog title goes here</h3>
         Lorem ipsum dolor sit amet consectetur adipisicing elit. Dolore.
         <a href="#" class="btn">read more</a>
         <div class="icons">
            <a href="#"> <i class="fas fa-calendar"></i> 21st may, 2022 </a>
            <a href="#"> <i class="fas fa-user"></i> by admin </a>
         </div>
       </div>
     </div>
     <div class="swiper-slide slide">
       <div class="image">
         <img src="static/blog-3.jpg" alt="">
       </div>
       <div class="content">
         <h3>blog title goes here</h3>
         Lorem ipsum dolor sit amet consectetur adipisicing elit. Dolore.
         <a href="#" class="btn">read more</a>
         <div class="icons">
            <a href="#"> <i class="fas fa-calendar"></i> 21st may, 2022 </a>
            <a href="#"> <i class="fas fa-user"></i> by admin </a>
         </div>
       </div>
     </div>
                                                  37
```

```
<div class="image">
            <img src="static/blog-4.jpg" alt="">
         </div>
         <div class="content">
           <h3>blog title goes here</h3>
            Lorem ipsum dolor sit amet consectetur adipisicing elit. Dolore.
            <a href="#" class="btn">read more</a>
            <div class="icons">
              <a href="#"> <i class="fas fa-calendar"></i> 21st may, 2022 </a>
              <a href="#"> <i class="fas fa-user"></i> by admin </a>
         </div>
       </div>
       <div class="swiper-slide slide">
         <div class="image">
            <img src="static/blog-5.jpg" alt="">
         </div>
         <div class="content">
           <h3>blog title goes here</h3>
            Lorem ipsum dolor sit amet consectetur adipisicing elit. Dolore.
            <a href="#" class="btn">read more</a>
           <div class="icons">
              <a href="#"> <i class="fas fa-calendar"></i> 21st may, 2022 </a>
              <a href="#"> <i class="fas fa-user"></i> by admin </a>
            </div>
         </div>
       </div>
    </div>
    <div class="swiper-button-next"></div>
    <div class="swiper-button-prev"></div>
  </div>
</section>
<section class="footer">
  <div class="box-container">
     <div class="box">
       <h3>about us</h3>
       Lorem ipsum dolor sit amet consectetur adipisicing elit. Laborum, nesciunt!
    </div>
                                                    38
     <div class="box">
```

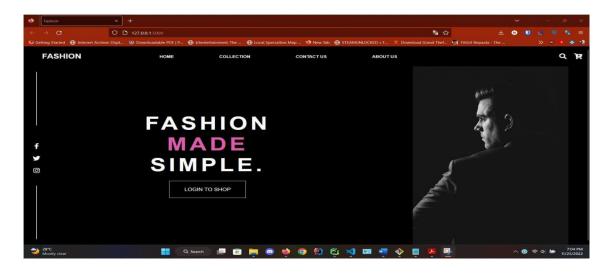
```
<h3>category</h3>
       <a href="#"> <i class="fas fa-arrow-right"></i> men </a>
       <a href="#"> <i class="fas fa-arrow-right"></i> women </a>
       <a href="#"> <i class="fas fa-arrow-right"></i> kids </a>
       <a href="#"> <i class="fas fa-arrow-right"></i> best seller </a>
       <a href="#"> <i class="fas fa-arrow-right"></i> new arrivals </a>
    </div>
     <div class="box">
       <h3>quick links</h3>
       <a href="#"> <i class="fas fa-arrow-right"></i> home </a>
       <a href="#"> <i class="fas fa-arrow-right"></i> products </a>
       <a href="#"> <i class="fas fa-arrow-right"></i> featured </a>
       <a href="#"> <i class="fas fa-arrow-right"></i> review </a>
       <a href="#"> <i class="fas fa-arrow-right"></i> contact </a>
       <a href="#"> <i class="fas fa-arrow-right"></i> blogs </a>
    </div>
    <div class="box">
       <h3>extra links</h3>
       <a href="#"> <i class="fas fa-arrow-right"></i> my order </a>
       <a href="#"> <i class="fas fa-arrow-right"></i> my account </a>
       <a href="#"> <i class="fas fa-arrow-right"></i> my listing </a>
       <a href="#"> <i class="fas fa-arrow-right"></i> sell now </a>
       <a href="#"> <i class="fas fa-arrow-right"></i> new offers </a>
    </div>
  </div>
  <div class="share">
    <a href="#" class="fab fa-facebook-f"></a>
    <a href="#" class="fab fa-twitter"></a>
    <a href="#" class="fab fa-pinterest"></a>
    <a href="#" class="fab fa-linkedin"></a>
    <a href="#" class="fab fa-instagram"></a>
  </div>
  <div class="credit"> &copy; copyright @ 2022 by <span>mr. bakh designer</span> </div>
</section>
  window.watsonAssistantChatOptions = {
  integrationID: "614a4315-ff80-4187-8fe4-2fd9b506b723",
  region: "au-syd",
  serviceInstanceID: "9670dcf8-789f-4609-8d7a-6e25c412a9ec",
  onLoad: function(instance) { instance.render(); }
```

};

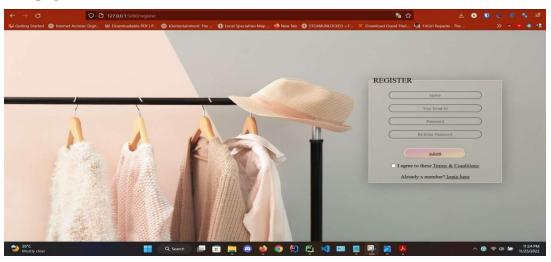
```
setTimeout(function(){
  const t=document.createElement('script');
  t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" +
  (window.watsonAssistantChatOptions.clientVersion || 'latest') +
   "/WatsonAssistantChatEntry.js";
  document.head.appendChild(t);
  });
  </script>
</script src="https://unpkg.com/swiper@7/swiper-bundle.min.js"></script>
</script src="js/script.js"></script>
</body>
  </html>
```

SCREENSHOTS

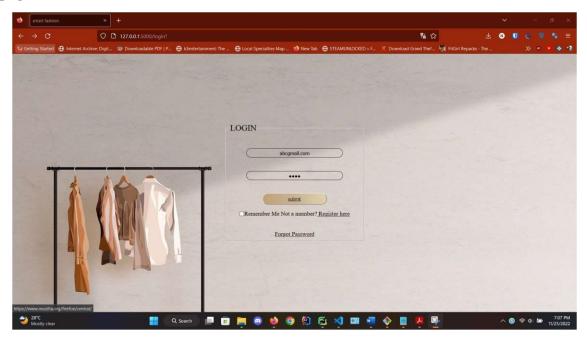
Home page



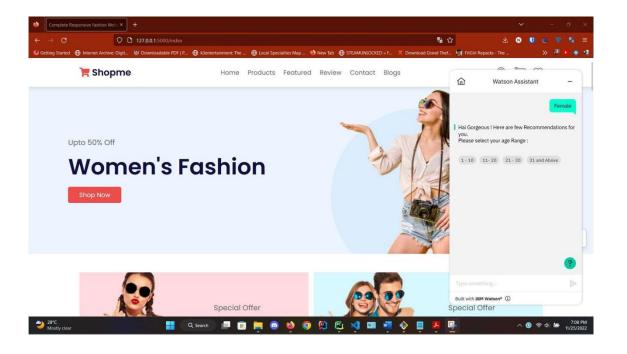
Register page



Login page



Integrate Chat Bot



13.2 GITHUB REPOSITORY & DEMO LINK

- ➤ Our GitHub Repository <u>IBM-EPBL/IBM-Project-5022-1658745420</u>: <u>Smart Fashion Recommender Application(github.com)</u>
- > Our Project Demo Link https://drive.google.com/file/d/10torzC1zsd8DZSFVdFol51VnkS0rOng3/vie w?usp=sharing