IBM – NALAIYA THIRAN PROJECT

SMART FASHION RECOMMENDER APPLICATION

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ABSTRACT

Fashion is perceived as a meaningful way of self-expressing that people use for different purposes. It seems to be an integral part of every person in modern societies, from everyday life to exceptional events and occasions. Fashionable products are highly demanded, and consequently, fashion is perceived as a desirable and profitable industry. Although this massive demand for fashion products provides an excellent opportunity for companies to invest in fashion-related sectors, it also faces different challenges in answering their customer needs.

In recent years, the textile and fashion industries have witnessed an enormous amount of growth in fast fashion. On e-commerce platforms, where numerous choices are available, an efficient recommendation system is required to sort, order, and efficiently convey relevant product content or information to users. Smart Fashion Recommender Application have attracted a huge amount of attention from fast fashion retailers as they provide a personalized shopping experience to consumers. Smart Fashion Recommender Application have been introduced to address these needs.

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1. INTRODUCTION

1. PROJECT OVERVIEW

The Fashion industry is one of the larger industries around the world. One of the things that has remained constant throughout human civilization is humans covering their bodies with a piece of cloth. Initially, this cloth was worn as protection from the harsh climates of those ages. Later on, as we humans learned to fend for ourselves from the unforgiving climates, the cloth started to serve a different purpose. Fashion these days showcases the individuality of the person. There are many things that can be said about a person based on their fashion sense.

2. PURPOSE

There is currently no existing system that is capable of recommending clothes based on the occasion. Different occasions call for different clothing. Moreover, a lot of fashion is based on the color combinations of outfits. A person with no or little fashion sense will have a hard time to decide on clothes that leave a lasting impression. The proposed Fashion Recommendation System is intended to be used by individual users in order to store images of the clothes that they own in what is called a digital wardrobe and also to get recommendations by the system on what clothes to wear for a given occasion. The main aim of the project is to recommend the most appropriate clothes for a given occasion based on the clothes existing in the user's wardrobe to relieve the user of the burden of making decisions about what clothing to wear. Such a system should be capable of helping someone who has no fashion sense to wear clothes that leave a good impression on others. The system should be such that it is easily accessible and easy to take advantage of the various features that it provides. One of the features should be the ability to store images that the user uploads into a wardrobe. A wardrobe is a very useful entity that the user can use to view and manage the images of clothes that they have uploaded. This feature can also be used by the recommendation algorithm to recommend the clothes. Another feature is the classification of the type and color of the clothing that is uploaded by the user. The system should be capable of handling the 4 basic clothing types: Shirt, T-Shirt, Pants and Shoes.

2. LITERATURE SURVEY

EXISTING PROBLEM:

In existing system only simple web application and their rating has been implemented in existing system, An ecommerce product recommendation engine is a piece of technology that displays recommended products to shoppers throughout your store. It uses machine learning to get smarter and show increasingly relevant products to shoppers based on their interests and previous browsing behavior

In existing model is content based filtering scheme has been employed in existing model **The content-based filtering method** analyzes customer data on the likes and dislikes of each user (cookies allow tracking over multiple visits), then makes recommendations based on the browsing history of that user. The idea behind content-based filtering is that if you enjoy a certain item, you'll likely also enjoy a similar item. An example of a content-based filtering system would be if you were listening to Pandora and consistently 'liked' downtempo jazz music.

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

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

2. REFERENCES:

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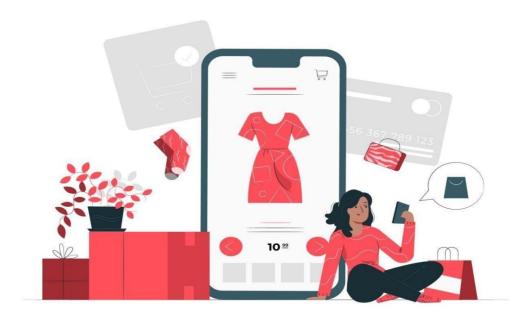
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3. PROBLEM STATEMENT DEFINITION

The personal information collected by recommenders raises the risk of unwanted exposure of that information. Also, malicious users can bias or sabotage the recommendations that are provided to other users. In recent years, the textile and fashion industries have witnessed an enormous amount of growth in fast fashion. On e-commerce platforms, where numerous choices are available, an efficient recommendation system is required to sort, order, and efficiently convey relevant product content or information to users.

- ➤ The problem of the work is to design static web applications deployments with customer deployment
- ➤ Lack of interaction between application and user
- ➤ User need to navigate across multiple pages to choose right product
- ➤ Confusion in choosing product
- ➤ Lack of sales
- ➤ Complex User Interface.
- Lack of proper guidance.



3.IDEATION & PROPOSED SOLUTION

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 chatbot.

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 Chatbot regarding the products. Get the recommendations based on information provided by the user.

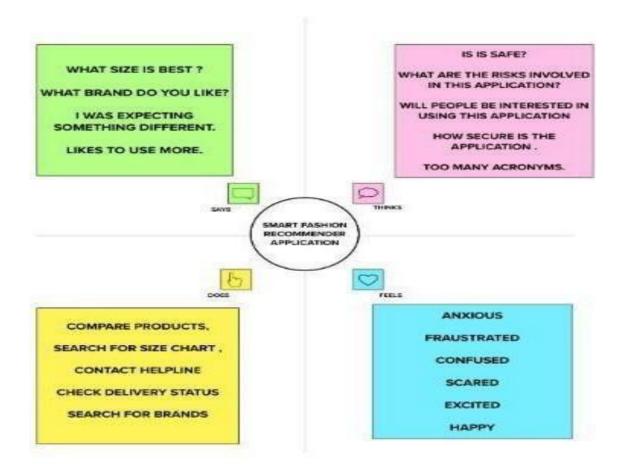
FEATURES OF CHATBOT:

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

EMPATHY MAP CANVAS:

An empathy map is a simple, easy-to-digest visual that captures knowledge about a user's behaviours and attitudes. It is a useful tool to helps teams better understand their users. Creating an effective solution requires understanding the true problem and the person who is experiencing it. The exercise of creating the map helps participants consider things from the user's perspective along with his or her goals and challenges. An empathy map is a collaborative tool teams can use to gain a deeper insight into their customers.

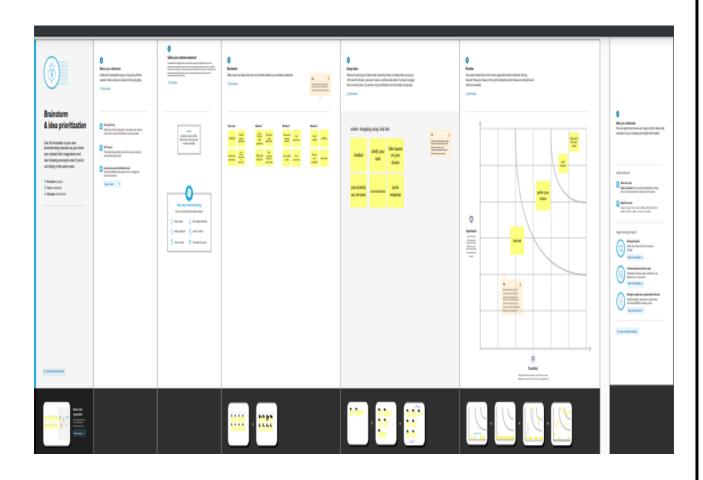
SMART FASHION RECOMMENDERAPPLICATIONN



IDEATION & BRAINSTROMING:

A group problem-solving technique that involves the spontaneous contribution of ideas from all members of the group.

The mulling over of ideas by one or more individuals in an attempt to devise or find a solution to a problem



PROPOSED SOLUTION:

SMART FASHION RECOMMENDER APPLICATION

S.NO.	PARAMETER	DESCRIPTION
1.		•In E-commerce websites, users need to search for products and navigate across screens to view the product and order product.
20	Problem statement(problem To be solved)	•A new innovative solution came up through which can directly make online shopping based on the choice of the user without any search.
		•It can be done by using the chatbot which can be achieved by a smart fashion recommender application.
2.	Idea/ solution description	•The smart fashion recommender application leverages the use of a chatbot to interact with the users, gather information about their preferences, and recommend suitable products to the users.
		•User can be able to mention their preferences by interacting with chatbot.
		•The user must receive a notification on order confirmation/failure.
		•The chatbot must gather feedback from the user at the end of order confirmation
3.	Novelty/ Uniqueness	•Chatbot asks and learns from user preference which recommends appropriate products to the user without making them search through various filters which reduces time and thus increases sales.
		•Instead of searching manually a chatbot will help to find the right product effectively, with this feature user can save time and it is an easy process, chat keep sending a notification about new collections
	Social impact/Customer	•Feedback from the user at the end of the session or
4.	satisfaction	after placing an order is one of the most important factors in deriving customer satisfaction and providing better services.
		•The model can recommend products that are more suitable to the customer.
		Directly do online shopping based on customer

		choice without any search.
		• It can also save a lot of time.
5.	Buisness model (Revenue model)	•Due to market dynamics and customer preferences, there is a large vocabulary of distinct fashion products, as well as high turnover.
3.		 This leads to sparse purchase data, which challenges the usage of traditional recommender systems. Better experience and Feasibility.
		Charles Cha
6.	Scalability of the solution	•The solution can be made scalable by using micro service architecture provided that each server is responsible for certain functionality of the application.
•		•Storing user preferences along with the product in the browser cookie will enable it to provide a response instantly and allows for fetching related products.
		•The scalability can be increased by increasing the number of products and also the accuracy of the product suggestions

PROBLEM SOLUTION FIT

Purpose / Vision **Problem-Solution Fit canvas** SMART FASHION RECOMMENDER APPLICATION CS 6. CUSTOMER LIMITATIONS EG. BUDGET, DEVICES 5. AVAILABLE SOLUTIONS PROS & CONS 1. CUSTOMER SEGMENT(S) · FAQs to sort out queries of customers. . Chatbot Shoppers who prefer the ease of contacting a . Website speed and search function. · Availability of refund and return option. chatbot to buy a product instead of search. . A quick finding of customer-related products. Search for a specific product through the search bar. . Website shoppers who browse online to buy products. • Reviews and ratings can distract customers. . Showing similar products of the selected product. . Discount seeking customers who often seek for discount · Customers cannot bargain. in the product. · Category-wise product arrangement. 9. PROBLEM ROOT / CAUSE 7. BEHAVIOR + ITS INTENSITY 2. PROBLEMS / PAINS + ITS FREQUENCY • The presence of a chatbot can help in asking and . Network issue so that product could not load fast. · Cross-check and compare with other sites. resolving customer queries. . Long delivery. · Purchase the product and write a review. · Customer review of a product. · Poor Tracking. Dispose goods and services over the internet. · Availability of sort and filter options to show products · Product research and cross shopping. · Monitoring and evaluation. relevant to customers. . During the festival, times may face network traffics and not-· Identify the issues. . Showing a comparison between products. on-time delivery issue. · Searching for the best fashion and good product. . Showing products that are most relevant to them. · May be slight variations in dresses on delivery than they · Giving the best deals from sellers to customers. . Availability of refund and return policies. Track Order option. · Sometimes customer service is not available. СН 8. CHANNELS of BEHAVIOR 3. TRIGGERS TO ACT 10. YOUR SOLUTION ONLINE · Easy return and refund policy. · A chatbot will recommend products related to the shoppers' search. · Chat with chatbot. · Time-consuming. · Get detailed information about the product and the product . Buy products. · Social proof and novelty. . Track and pay for the purchased products. · Through advertisements, the users are triggered. · Availability of review and rating options to give their feedback about the product bought. EM OFFLINE 4. EMOTIONS BEFORE / AFTER · Can compare products with various brands. • In place search for a relevant shop. . Before: Want to buy products on huge rush and . To provide a fashion recommender filter that clears their · Search for products by walk. frequently ask the vendor to show more products. fashion queries. · Purchasing and manual billing. . After: Anywhere anytime shopping and can easily see · And save the customer-related queries for future any number of products even if they don't buy. recommendation. · Buy the products from the salesperson directly.

4.REQUIREMENTANALYSIS

FUNCTIONAL REQUIREMENT:

SMART FASHION RECOMMENDER APPLICATION

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement Sub Requirement (Story / Sub-Task) (Epic)					
FR-1	Sign up	Register by using mobile number/ Register by using email id.				
FR-2	User Verification	Verify via Email Verify via OTP				
FR-3	Login	Login by using username / password				
FR-4	Profile Updation	Update the profile details like Name, Gender, Age , Address & mobile number , etc,.				
FR-5	Chatbot	Chatbot is useful to search products, view offers, discounts and stock availability. It is also used to solve queries and issues.				
FR-6	Ordering the product	After confirming the product, buy the product via Cash on Delivery or online transactions.				
FR-7	Tracking the ordered Product	After ordering the product , track the delivery via link received to your registered mobile number through SMS or registered email id.				
FR-8	Logout	After receiving the product ,user can logout the account when he/she needs				

NON-FUNCTIONAL REQUIREMENTS:

SMART FASHION RECOMMENDER APPLICATION

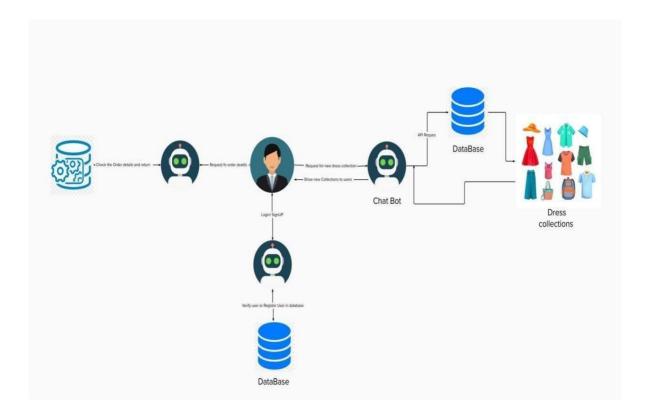
Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The application will be designed in such a way that any user can easily navigate through it and user can easily view, order and track the product until delivery.(Easy and Compact design.)
NFR-2	Security	Using of SSL (Secure Socket Layer) certificate (Python Flask to Cloud connect) will provide security to the project. The user details will be kept as more secure.
NFR-3	Reliability	To make sure the application doesn't go down due to network traffic and the details entered in this application is kept as highly confidential, so it is highly reliable.
NFR-4	Performance	It focus on loading the application as quickly as possible irrespective of the number of users/integrator traffic.
NFR-5	Availability	This application will be available to all users (network connectivity is necessary) at any given point of time. Users can access the chatbot for raising any queries/ questions.
NFR-6	Scalability	Chatbot can be very useful during festival season to know about offers and discounts. It will be helpful whenever we make online shopping.

5.PROJECT DESIGN

DATA FLOW DIAGRAMS:

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



SOLUTION & TECHNICALARCHITECTURE:

We have developed 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 chatbot. In this project you will be working on two modules:

- Admin
- User

Instead of searching for products in the search bar and navigating to individual products to find required preferences, this project leverages the use of chatbots to gather all required preferences and recommend products to the user. The solution is implemented in such a way as to improve the interactivity between customers and applications. The chatbot sends messages periodically to notify offers and preferences. For security concerns, this application uses a token to authenticate and authorize users securely. The token has encoded user id and role. Based on the encoded information, access to the resources is restricted to specific users.

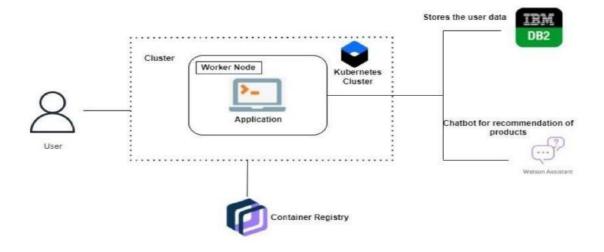


FIG 1: TECHNICAL MODEL

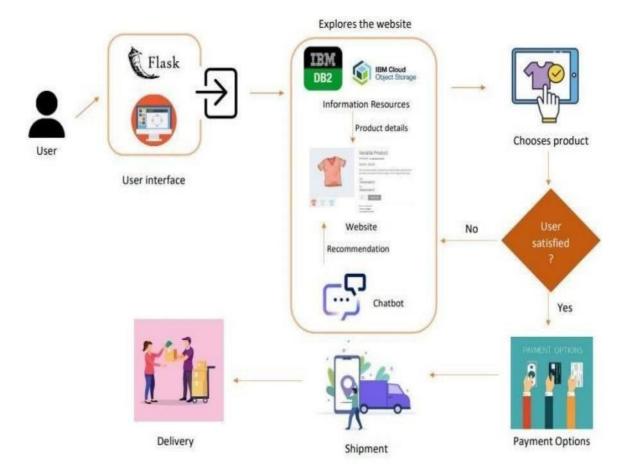


FIG 2: DEMO WORKING MODEL

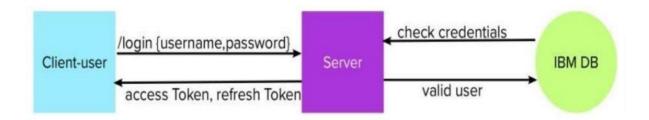


FIG 3: AUTHENTICATION PROCESS

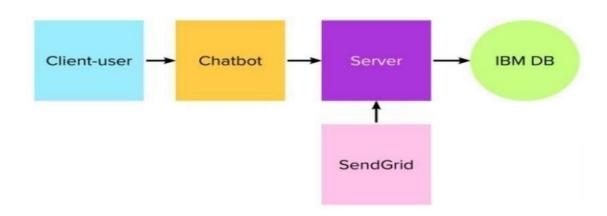
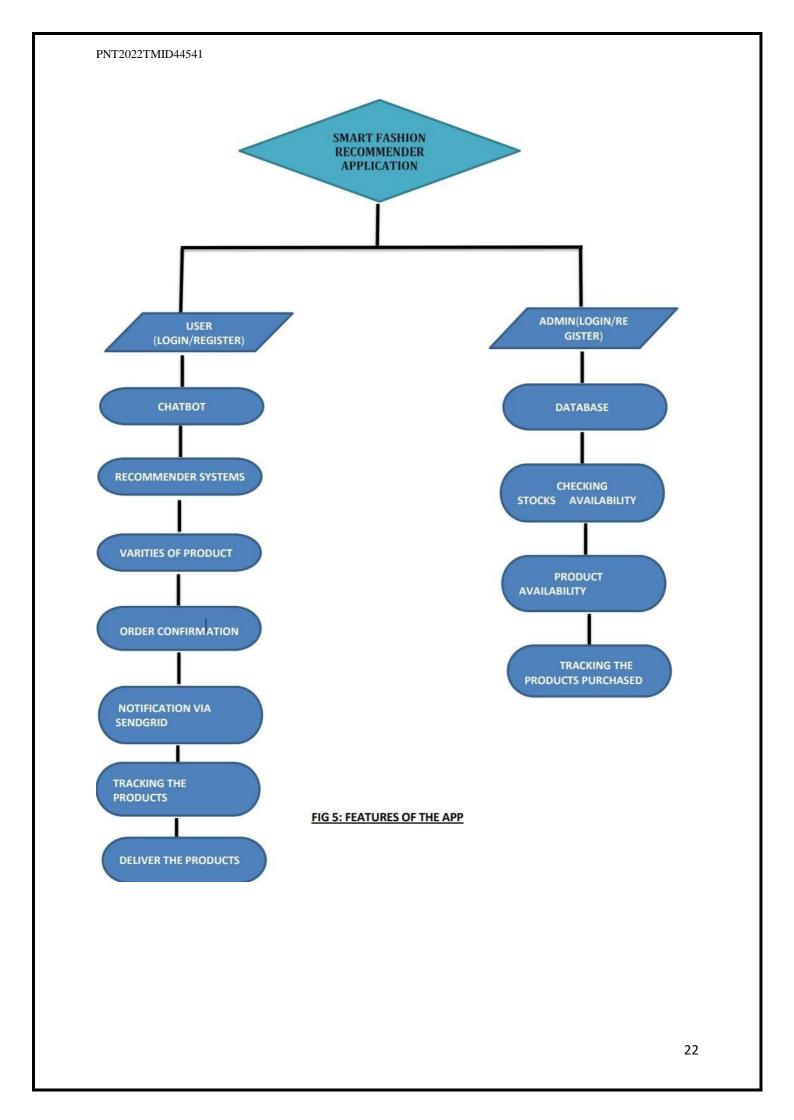


FIG 4: CLIENT-SERVER PROCESS



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

5. PROJECT PLANNING & SCHEDULE SPRINT PLANNING & ESTIMATION:

Milestones	Activities	Description
Project Development Phase	Delivery of Sprint – 1,2,3,4	To develop the code and submit the developed code by testing it
Setting up App environment	Create IBM Cloud account	Signup for an IBM Cloud account
	Create flask project	Getting started with Flask to create project
	Install IBM Cloud CLI	Install IBM Command LineInterface
	Docker CLI Installation	Installing Docker CLI on laptop
	Create an account in send grid	Create an account in sendgrid. Use the service as email integration to our application for sending emails
Implementing web Application	Create UI to interact with Application	Create UI Registration page Login page View products page Add products page
	Create IBM DB2 & connect with python	Create IBM DB2 service in IBM Cloud and connect with python code with DB
Integrating sendgrid service	Sendgrid integration with python	To send emails form the application we need to integrate the Sendgrid service
Developing a chatbot	Building a chatbot and Integrate to application	Build the chatbot and Integrate it to the flask application
Deployment of App in BMCloud	Containerize the App	Create a docker image of your application and push it to the IBM container registry
	Upload image to IBM container registry	Upload the image to IBM container registry
	Deploy in kubernetes cluster	Once the image is uploaded to IBM Container registry deploy the image to IBM Kubernetes cluster

Milestones	Activities	Description
Ideation Phase	Literature Survey	Literature survey on the selected project & information gathering
	Empathy Map	Prepare Empathy map to capture the user Panis & Gains, prepare list of problem statement
	Ideation	Organizing the brainstorming session and priorities the top 3 ideas based on feasibility & Importance
Project Design Phase I	Proposed Solution	Prepare proposed solution document which includes novelty, feasibility of ideas, business model, social impact, Scalability of solution
	Problem Solution Fit	Prepare problem solution fit document
	Solution Architecture	Prepare solution architecture document
Project Design Phase II	Customer Journey	Prepare customer journey map to understand the user interactions & experience with the application
	Functional requirement	Prepare functional & non functional requirement document
3	Data Flow Diagram	Prepare Data Flow Diagramand user stories
	Technology architecture	Draw the technology architecture diagram
Project Planning Phase	Milestones & Activity list	Prepare milestones and activity list of the project
	Sprint Delivery Plan	Prepare sprint delivery plan

SPRINT DELIVERY SCHEDULE:

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	User Panel	USN-1	The user will login into the website and go through the products available on the website	20	High	Suji Priya R Selvanayaki G Vinothini M Shailesh B
Sprint-2	Admin panel	USN-2	The role of the admin is to check out the database about the stock and have a trackof all the things that the users are purchasing.	20	High	Suji Priya R Selvanayaki G Vinothini M Shailesh B
Sprint-3	Chat Bot	USN-3	The user can directly talk to Chatbot regarding the products. Get the recommendations based on informationprovided by the user.	20	High	Suji Priya R Selvanayaki G Vinothini M Shailesh B
Sprint-4	final delivery	USN-4	Container of applications using docker kubernets and deployment the application. Create the documentation and final submit the application	20	High	Suji Priya R Selvanayaki G Vinothini M Shailesh B

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

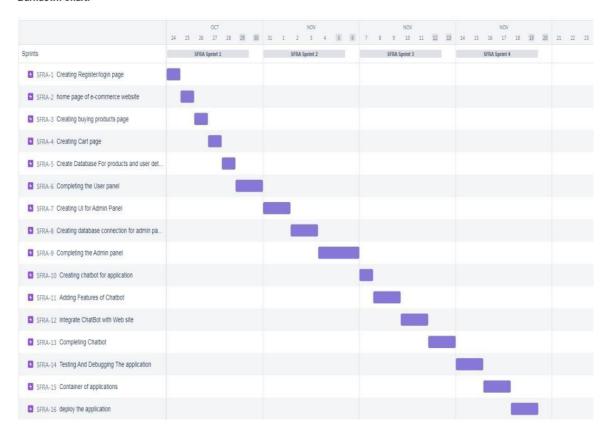
Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

REPORTS FROM JIRA:

Burndown Chart:



6. CODING & SOLUTIONING

FEATURE-1:

HOMEPAGE.HTML

```
<html>
  <head>
    <title> FASHION FREAK </title>
  </head>
  <style>
    *{
  margin: 0;
  padding: 0;
  font-family: "Times New Roman", Times, serif;
}
.main{
  width: 100%;
  background: linear-gradient(to top,rgba(0,0,0,0.5),rgba(0,0,0,0.5)50%);
  background-position: center;
  background-size: cover;
  height: 100%;
  font-family: "Times New Roman", Times, serif;
}
.navbar{
  width: 100%;
  height: 75px;
  margin: auto;
}
```

```
.icon{
  width: 200px;
  float: left;
  height: 70px;
}
.logo\{
  color:#FFFFF;
  font-size: 35px;
  padding-left: 20px;
  float: left;
  padding-top: 10px;
}
.menu{
  width: 400px;
  float: left;
  height: 70px;
}
ul\{
 float: left;
 display: flex;
 justify-content: center;
 align-items: center;
}
ul li{
  list-style: none;
  margin-left: 62px;
  margin-top: 27px;
  font-size: 15px;
```

```
}
ul li a{
  text-decoration: none;
  color: #FFFFF;
  font-weight: bold;
  transition: 0.4s ease-in-out;
}
ul li a:hover{
  color: rgb(98, 246, 152);
}
. search \{
  width: 330px;
  float: left;
  margin-left: 270px;
}
.srch\{\\
  width: 200px;
  height: 40px;
  background: transparent;
  border: 1px solid rgb(98, 246, 152);
  margin-top: 13px;
  color: #FFFFF;
  border-right: none;
  font-size: 16px;
  float: left;
  padding: 10px;
```

```
border-bottom-left-radius: 5px;
  border-top-left-radius: 5px;
}
.btn{
  width: 100px;
  height: 40px;
  background:rgb(98, 246, 152);
  border: 2px solid rgb(98, 246, 152);
  margin-top: 13px;
  color: #FFFFFF;
  font-size: 15px;
  border-bottom-right-radius: 5px;
  border-bottom-right-radius: 5px;
}
.btn:focus{
  outline: none;
}
.srch:focus{
  outline: none;
}
.content{
  width: 1200px;
  height: auto;
  margin: auto;
  color: #800080;
  position: relative;
.content.par{
```

```
padding-left: 20px;
  padding-bottom: 25px;
  letter-spacing: 1.2px;
  line-height: 30px;
}
.content h1{
  font-size: 50px;
  padding-left: 20px;
  margin-top: 9%;
  letter-spacing: 2px;
}
.content .cn{
  width: 160px;
  height: 40px;
  background: rgb(98, 246, 152);
  border: none;
  margin-bottom: 10px;
  margin-left: 20px;
  font-size: 18px;
  border-radius: 10px;
  cursor: pointer;
  transition: .4s ease;
}
.content .cn a{
  text-decoration: none;
  color: #FBE7A1;
  transition: .3s ease;
}
```

```
.cn:hover{
  background-color: #FBE7A1;
}
.content span{
  color:rgb(98, 246, 152);
  font-size: 60px;
}
.form{
  width: 250px;
  height: 380px;
  background: linear-gradient(to top,hsla(89, 43%, 51%, 0.3));
  position: absolute;
  top: -20px;
  left: 870px;
  border-radius: 10px;
  padding: 25px;
}
.form h2{
  width: 220px;
  text-align: center;
  color:rgb(98, 246, 152);
  font-size: 22px;
  border-radius: 10px;
  margin: 2px;
  padding: 8px;
```

```
.form input{
  width: 240px;
  height: 35px;
  background: rgba(0, 255, 0, 0.5);
}
.form input{
  width: 240px;
  height: 35px;
  background: rgba(0, 255, 0, 0.5);
  border-bottom: 1px solid rgb(98, 246, 152);
  border-top: none;
  border-right: none;
  border-left: none;
  color: #fff;
  font-size: 15px;
  letter-spacing: 1px;
  margin-top: 30px;
}
.form input:focus{
  outline: none;
}
::placeholder{
  color: #fff;
}
.btnn\{\\
  width: 240px;
  height: 40px;
```

34

```
background: rgb(98, 246, 152);
  border: none;
  margin-top: 30px;
  font-size: 18px;
  border-radius: 10px;
  cursor: pointer;
  color: #fff;
  transition: 0.4s ease;
}
.btnn:hover{
  background: #fff;
  color: rgb(98, 246, 152);
}
.btnn a{
  text-decoration: none;
  color: #000;
  font-weight: bold;
}
. form . link \{
  font-size: 17px;
  padding-top: 20px;
  text-align: center;
}
.form .link a{
  text-decoration: none;
  color: rgb(98, 246, 152);
}
```

```
.liw{
         padding-top: 15px;
         padding-bottom: 10px;
         text-align: center;
         </style>
         <body>
                   <div class="main">
                                <div class="navbar">
                                         <div class="icon">
                                                 <h2 class="logo">FASHIONZZ</h2>
                                       </div>
                                       <div class="menu">
                                                 \langle ul \rangle
                                                           <a href="#">HOME</a>
                                                           <a href="#">ABOUT</a>
                                                 </div>
                                       <div class="search">
                                                 <input class="srch" type="search" name="" placeholder="TYPE TO SEARCH">
                                                 <a href="#"><button class="btn">SEARCH</button></a>
                                       </div>
                                                                         <\!\!img\ src="C:\ Vsers\ HP\ Downloads\ fashion-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-banner-people-cartoon-characters-flation-characters-flation-characters-flation-characters-flation-characters-flation-characters-flation-characters-flati
vector-illustration-isolated-fashion-banner-people-cartoon-characters-190292392.jpg">
                             </div>
                    </div>
```

```
<\!\!body>
```

</html>







INDEXPAGE.HTML:

```
background: linear-gradient(to top, rgba(0,0,0,0.5),rgba(0,0,0,0.5)50%);
  background-position: center;
  background-size: cover;
  height: 100%;
  font-family: "Times New Roman", Times, serif;
}
.navbar{
  width: 100%;
  height: 75px;
  margin: auto;
}
.icon{
  width: 200px;
  float: left;
  height: 70px;
}
.logo{
  color:#FFFFF;
  font-size: 35px;
  padding-left: 20px;
  float: left;
  padding-top: 10px;
}
.menu{
  width: 400px;
  float: left;
  height: 70px;
```

```
}
ul{
  float: left;
 display: flex;
 justify-content: center;
 align-items: center;
}
ul li{
  list-style: none;
  margin-left: 62px;
  margin-top: 27px;
  font-size: 15px;
}
ul li a{
  text-decoration: none;
  color: #FFFFF;
  font-weight: bold;
  transition: 0.4s ease-in-out;
}
ul li a:hover{
  color: rgb(98, 246, 152);
}
. search \{
  width: 330px;
  float: left;
  margin-left: 270px;
```

```
.srch\{
  width: 200px;
  height: 40px;
  background: transparent;
  border: 1px solid rgb(98, 246, 152);
  margin-top: 13px;
  color: #FFFFF;
  border-right: none;
  font-size: 16px;
  float: left;
  padding: 10px;
  border-bottom-left-radius: 5px;
  border-top-left-radius: 5px;
}
.btn{
  width: 100px;
  height: 40px;
  background:rgb(98, 246, 152);
  border: 2px solid rgb(98, 246, 152);
  margin-top: 13px;
  color: #FFFFFF;
  font-size: 15px;
  border-bottom-right-radius: 5px;
  border-bottom-right-radius: 5px;
}
.btn:focus{
  outline: none;
}
```

.content .cn{

width: 160px;

height: 40px;

border: none;

background: rgb(98, 246, 152);

41

```
margin-bottom: 10px;
  margin-left: 20px;
  font-size: 18px;
  border-radius: 10px;
  cursor: pointer;
  transition: .4s ease;
}
.content .cn a{
  text-decoration: none;
  color: #000;
  transition: .3s ease;
}
.cn:hover{
  background-color: #fff;
.content span{
  color:rgb(98, 246, 152);
  font-size: 60px;
}
. form \{
  width: 250px;
  height: 380px;
  background: linear-gradient(to top,rgba(0,0,0,0.8)50%,rgba(0,0,0,0.8)50%);
  position: absolute;
  top: -20px;
  left: 870px;
  border-radius: 10px;
  padding: 25px;
```

42

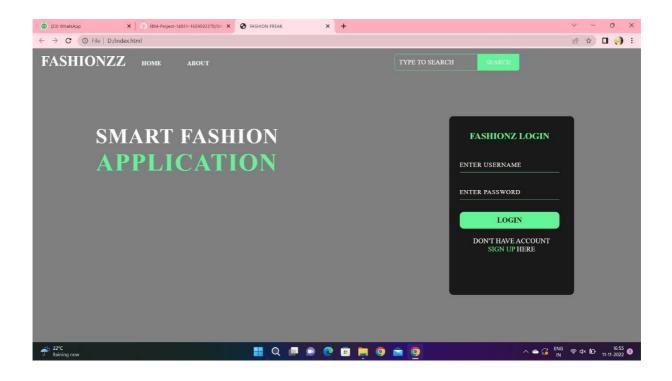
```
.form h2{
  width: 220px;
  text-align: center;
  color:rgb(98, 246, 152);
  font-size: 22px;
  border-radius: 10px;
  margin: 2px;
  padding: 8px;
.form input{
  width: 240px;
  height: 35px;
  background: transparent;
}
. form \ input \{
  width: 240px;
  height: 35px;
  background: transparent;
  border-bottom: 1px solid rgb(98, 246, 152);
  border-top: none;
  border-right: none;
  border-left: none;
  color: #fff;
  font-size: 15px;
  letter-spacing: 1px;
  margin-top: 30px;
```

}

```
.form input:focus{
   outline: none;
}
::placeholder{
  color: #fff;
}
.btnn\{\\
  width: 240px;
  height: 40px;
  background: rgb(98, 246, 152);
  border: none;
  margin-top: 30px;
  font-size: 18px;
  border-radius: 10px;
  cursor: pointer;
  color: #fff;
  transition: 0.4s ease;
}
.btnn:hover{
  background: #fff;
  color: rgb(98, 246, 152);
}
.btnn a{
  text-decoration: none;
  color: #000;
  font-weight: bold;
   }
```

```
. form . link \{\\
  font-size: 17px;
  padding-top: 20px;
  text-align: center;
.form .link a{
  text-decoration: none;
  color: rgb(98, 246, 152);
}
.liw{
  padding-top: 15px;
  padding-bottom: 10px;
  text-align: center;
  </style>
  <body>
    <div class="main">
       <div class="navbar">
         <div class="icon">
           <h2 class="logo">FASHIONZZ</h2>
         </div>
         <div class="menu">
           ul>
              <li><a href="#">HOME</a>
              <a href="#">ABOUT</a>
```

```
</div>
        <div class="search">
          <input class="srch" type="search" name="" placeholder="TYPE TO SEARCH">
          <a href="#"><button class="btn">SEARCH</button></a>
        </div>
      </div>
      <div class="content">
        <h1>SMART FASHION <br><span>APPLICATION</span></h1>
          <div class="FORM">
            <h2>FASHIONZ LOGIN</h2>
            <form action="/Login" method="post">
            <input type="text" name="username"</pre>
                                                placeholder="ENTER USERNAME">
            <input type="password" name="password" placeholder="ENTER PASSWORD">
            <button type="SUBMIT" class="btnn"><a href="#">LOGIN</a></button>
            DON'T HAVE ACCOUNT<br>
            <a href="/REGISTER">SIGN UP </a> HERE</a>
            </form>
          </div>
      </div>
    </div>
  </body>
</html>
```



REGISTER.HTML:

```
height: 100%;
  font-family: "Times New Roman", Times, serif;
}
.navbar{
  width: 100%;
  height: 75px;
  margin: auto;
}
.icon{
  width: 200px;
  float: left;
  height: 70px;
}
.logo{
  color:rgb(98, 246, 152);
  font-size: 35px;
  padding-left: 20px;
  float: left;
  padding-top: 10px;
}
.menu{
  width: 400px;
  float: left;
  height: 70px;
}
```

```
ul{
 float: left;
 display: flex;
 justify-content: center;
 align-items: center;
}
ul li{
  list-style: none;
  margin-left: 62px;
  margin-top: 27px;
  font-size: 15px;
}
ul li a{
  text-decoration: none;
  color: #ffff;
  font-weight: bold;
  transition: 0.4s ease-in-out;
}
ul li a:hover{
  color: rgb(98, 246, 152);
}
.search{
  width: 330px;
  float: left;
  margin-left: 270px;
}
```

```
.srch{}\{
  width: 200px;
  height: 40px;
  background: transparent;
  border: 1px solid rgb(98, 246, 152);
  margin-top: 13px;
  color: #ffff;
  border-right: none;
  font-size: 16px;
  float: left;
  padding: 10px;
  border-bottom-left-radius: 5px;
  border-top-left-radius: 5px;
}
.btn{
  width: 100px;
  height: 40px;
  background:rgb(98, 246, 152);
  border: 2px solid rgb(98, 246, 152);
  margin-top: 13px;
  color: #ffff;
  font-size: 15px;
  border-bottom-right-radius: 5px;
  border-bottom-right-radius: 5px;
}
.btn:focus{
  outline: none;
```

width: 160px;

height: 40px;

background: rgb(98, 246, 152);

```
51
```

```
border: none;
  margin-bottom: 10px;
  margin-left: 20px;
  font-size: 18px;
  border-radius: 10px;
  cursor: pointer;
  transition: .4s ease;
}
.content .cn a{
  text-decoration: none;
  color: #000;
  transition: .3s ease;
}
.cn:hover{
  background-color: #fff;
}
.content span{
  color:rgb(98, 246, 152);
  font-size: 60px;
}
.form{
  width: 250px;
  height: 380px;
  background: linear-gradient(to top,rgba(0,0,0,0.8)50%,rgba(0,0,0,0.8)50%);
  position: absolute;
  top: -20px;
```

```
padding: 25px;
}
.form h2{
  width: 220px;
  text-align: center;
  color:rgb(98, 246, 152);
  font-size: 22px;
  border-radius: 10px;
  margin: 2px;
  padding: 8px;
}
.form input{
  width: 240px;
  height: 35px;
  background: transparent;
}
.form input{
  width: 240px;
  height: 35px;
  background: transparent;
  border-bottom: 1px solid rgb(98, 246, 152);
  border-top: none;
  border-right: none;
  border-left: none;
  color: #fff;
  1
```

}

}

.btnn a{

.btnn:hover{

background: #fff;

color: rgb(98, 246, 152);

```
text-decoration: none;
  color: #000;
  font-weight: bold;
}
.form .link{
  font-size: 17px;
  padding-top: 20px;
  text-align: center;
}
.form .link a{
  text-decoration: none;
  color: rgb(98, 246, 152);
}
.liw{
  padding-top: 15px;
  padding-bottom: 10px;
  text-align: center;
}
  </style>
  <body>
     <div class="main">
       <div class="navbar">
          <div class="icon">
            <h2 class="logo">FASHIONZZ</h2>
          </div>
         <div class="menu">
```

```
<ul>
            <a href="#">HOME</a>
            <a href="#">ABOUT</a>
          </div>
        <div class="search">
          <input class="srch" type="search" name="" placeholder="TYPE TO</pre>
SEARCH">
          <a href="#"><button class="btn">SEARCH</button></a>
        </div>
      </div>
      <div class="content">
        <h1>SMART FASHION <br><span>APPLICATION</span></h1>
          <div class="form">
            <h2>FASHIONZZ REGISTER</h2>
            <form action="/Register" method="post">
            <input type="text" name="username" placeholder="USERNAME">
            <input type="email" name="email"</pre>
                                            placeholder="EMAIL ID">
            <input type="password" name="password" placeholder="PASSWORD">
            <button type="SUBMIT" class="btnn">REGISTER</button>
            ALREADY HAVE AN ACCOUNT<br>
            <a href="/Login">LOG IN</a> here</a>
            </form>
          </div>
```

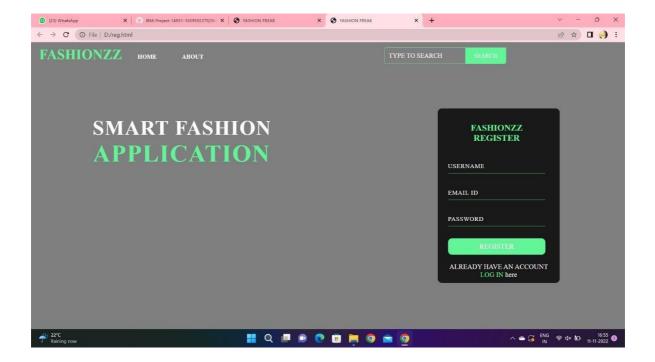
```
PNT2022TMID44541

</div>

</div>

</body>

</html>
```



FEATURE 2:

FINALHOME.HTML:

```
<html>
  <head>
    <meta name="viewpoint" content="width=device-width, initial-scale=1.0">
    <title>FASHION FREAK</title>
    link rel="stylesheet" href="https://storagedemo-madzh.s3.jp-tok.cloud-object-
storage.appdomain.cloud/MadmukFinalhomecss.css">
  </head>
  <body>
      <nav>
        <a class="logo" href="MadFinalhome.html"><h2>FASHIONZZ HOME</h2></a>
        <l>
           <input class="srch" type="search" name="" placeholder="TYPE TO</li>
SEARCH">
           <a href="#"><button class="btn">SEARCH</button></a>
           <a href="#">HOME</a>
           <a href="#">FEATURES</a>
           <a href="#">ABOUT</a>
        <img src="https://storagedemo-madzh.s3.jp-tok.cloud-object-</pre>
storage.appdomain.cloud/images/profile.jpeg" class="user-pic" onclick="toggleMenu()">
        <div class="sub-menu-wrap" id="subMenu">
           <div class="sub-menu">
             <div class="user-info">
               <img src="https://storagedemo-madzh.s3.jp-tok.cloud-object-</pre>
storage.appdomain.cloud/images/profile.jpeg">
               <h2>NAME</h2>
             </div>
```

```
<hr>>
             <a href="#" class="sub-menu-link">
                <img src="https://storagedemo-madzh.s3.jp-tok.cloud-object-</pre>
storage.appdomain.cloud/images/profile.jpeg">
                EDIT PROFILE
             </a>
             <a href="#" class="sub-menu-link">
                <imgsrc="https://storagedemo-madzh.s3.jp-tok.cloud-object-</pre>
storage.appdomain.cloud/images/settings.jpeg">
                SETTING & PRIVACY
             </a>
             <a href="#" class="sub-menu-link">
                <imgsrc="https://storagedemo-madzh.s3.jp-tok.cloud-object-</pre>
storage.appdomain.cloud/images/help.jpeg">
               HELP
             </a>
             <a href="/Login" class="sub-menu-link">
                <img src="https://cdn-icons-png.flaticon.com/512/56/56805.png">
               LOGOUT
             </a>
           </div>
         </div>
      </nav>
```

```
<div class="Banner">
         <div class="Bannerimg1"> <img img class="image" src="https://img.freepik.com/free-</pre>
photo/joyful-parisian-woman-beret-sunglasses-points-place-text-purple-wall 197531-
24604.jpg?w=2000"></div>
           <div class="Adcontent">
               <h1><br/>br>BEST FASHION FOR WOMEN</br></h1>
               <br/>domain  <
           </div>
       </div>
       <div class="rowstart">
           <div class="columnst"> <div class="depimg"> <img class="image"</pre>
src="https://cdn0.weddingwire.in/article/2617/original/1280/jpg/107162-wedding-dresses-
for-girls-6.jpeg"> </div> <div class="Bottom"> WEDDING & FESTIVE </div> </div>
           <div class="columnst"> <div class="depimg"> <img class="image"</pre>
src="https://previews.123rf.com/images/vadymvdrobot/vadymvdrobot1801/vadymvdrobot18
0102335/94122785-full-length-image-of-smiling-asian-woman-in-business-clothes-and-
eyeglasses-holding-smartphone-while.jpg"> </div> <div class="Bottom">BACK TO
DESK</div> </div>
           <div class="columnst"> <div class="depimg"> <img class="image"</pre>
src="https://i.pinimg.com/474x/29/00/fa/2900fa4d1599631766420338e531b2b2.jpg"> </div>
<div class="Bottom">VACAY MOOD</div> </div>
           <div class="columnst"> <div class="depimg"> <img class="image"</pre>
src="https://img.faballey.com/images/Product/DRS02948Z/1.jpg"> </div> <div
class="Bottom">PARTY ALL NIGHT</div> </div>
       </div>
       <div class="Banner">
           <div class="Bannerimg2"> <img img class="image"</pre>
src="https://bluejay.com.my/wp-content/uploads/2021/12/Kids-clothes-Hong-Kong-
seed.jpg"></div>
           <div class="Adcontent2">
               <h1><br>KIDS FASHION</br></h1>
               <br>LET OUR FUTURE BE STYLISH ....</br>
```

```
</div>
    </div>
    <div class="row">
      <div class="column"> <div class="depimg"> <img class="image"</pre>
src="https://cdn.shopify.com/s/files/1/0266/6276/4597/files/floral ethnic wear for kids by
utsa.jpg?v=1597833877"> </div> <div class="Bottom">ETHNIC WEAR</div> </div>
      <div class="column"> <div class="depimg"> <img class="image"</pre>
src="https://i.pinimg.com/736x/8a/f8/59/8af859d60ef9667726b206e1be2378e4.jpg"> </div>
<div class="Bottom">WINTER WEAR</div> </div>
      <div class="column"> <div class="depimg"> <img class="image"</pre>
src="https://i.pinimg.com/474x/9a/c2/85/9ac28569bd3bade0aa23bd74aaa8c0a9.jpg"> </div>
<div class="Bottom">DRESSES & JUMPSUITS</div> </div>
      <div class="column"> <div class="depimg"> <img class="image"</pre>
src="https://i.pinimg.com/564x/1b/c1/d5/1bc1d56f08959760738a0386f231d3fc.jpg"> </div>
<div class="Bottom">TOPS & TEES</div> </div>
    </div>
    <div class="Banner">
      <div class="Bannerimg1"> <img img class="image"</pre>
src="https://images.hindustantimes.com/rf/image_size_630x354/HT/p2/2018/01/30/Pictures/
_21667342-05ba-11e8-90ea-37dc70df54a3.jpg"></div>
      <div class="Adcontent">
         <h1><br>MENS FASHION</br></h1>
         <br/>br>WE ALSO PROVIDE TRENDY COLLECTIONS FOR MEN..ALWAYS
"MEN WILL BE MEN"</br>
      </div>
    </div>
    <div class="row">
      <div class="column"> <div class="depimg"> <img class="image"</pre>
src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRPYVjlrL-
```

```
LxLn_nhnDfHJx09_dUQsTRgkM69nENo7WKE6EKe555GjYDI7leLNGsKyGvR8&usqp= CAU"> </div> <div class="Bottom">T-SHIRTS & POLOS</div> </div>
```

 $\label{lem:class} $$ \cdiv class="depimg">< img class="image" $$ src="https://assets.myntassets.com/dpr_1.5,q_60,w_400,c_limit,fl_progressive/assets/images/10498568/2020/6/10/f1bc48ac-9997-4be1-8ce3-81cc6d5e61061591736177979-HRX-by-Hrithik-Roshan-Men-Grey-Solid-Regular-Fit-Training-Jo-1.jpg"></div></div></div></div></div></div></div>$

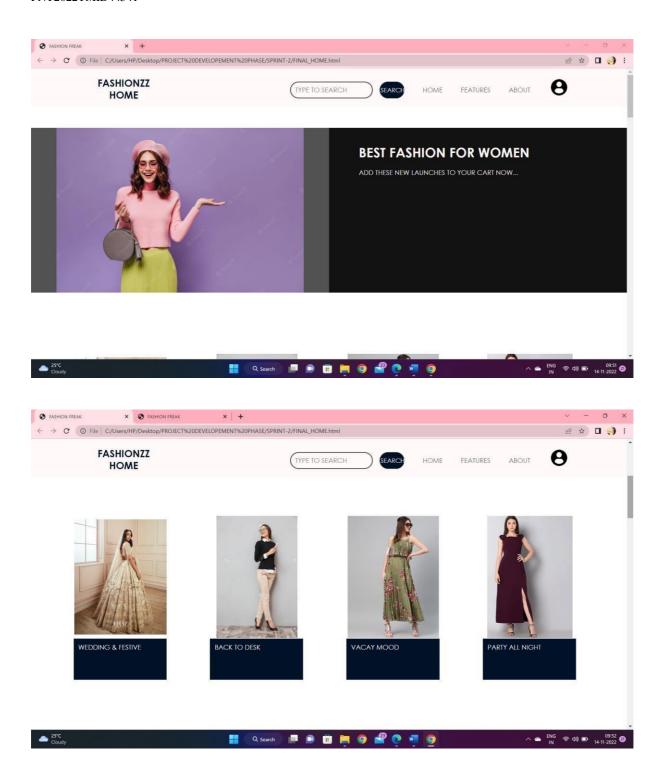
<div class="rowend">

</div>

</div>

<div class="depimg"><img class="image"
src="https://5.imimg.com/data5/FJ/AH/MY-42396081/combo-sets-28american-diamond-jewellery-29-500x500.jpg"></div><div class="Bottom">JEWELLERY</div></div></div></div></div></ti>

```
<div class="columnend"> <div class="depimg"> <img class="image"</pre>
src="https://encrypted-
tbn0.gstatic.com/images?q=tbn:ANd9GcTaoxLoX2lgaVWFtaGkCvyrozucBLTpaV4LJd9xx
2sRoqoums9kp9soRVXOKw6_rkVxsZk&usqp=CAU"> </div> <div
class="Bottom">SUNGLASSES</div> </div>
     <div class="columnend"> <div class="depimg"> <img class="image"</pre>
src="https://encrypted-
tbn0.gstatic.com/images?q=tbn:ANd9GcRJKjvaIU1qatbXinxMNRfWE338fXEl7t69TQ&usq
p=CAU"> </div> <div class="Bottom">WATCHES</div> </div>
     <div class="columnend"> <div class="depimg"> <img class="image"</pre>
src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQSWDKgpQeZ-3VNR7-
9SfaVGVvqOawrkZiLdNfSpjNNQJNI6hl8cJg0Qs_DZfpJtizUst0&usqp=CAU"></div>
<div class="Bottom">HANDBAGS & CLUTCHES</div> </div>
    </div>
  <script>
    let subMenu = document.getElementById("subMenu");
    function toggleMenu(){
      subMenu.classList.toggle("open-menu");
    }
 </script>
  </body>
  <footer>
   <div class="footer"> <H1>BE HAPPY</H1></div>
  </footer>
</html>
```



LOGIN.HTML:

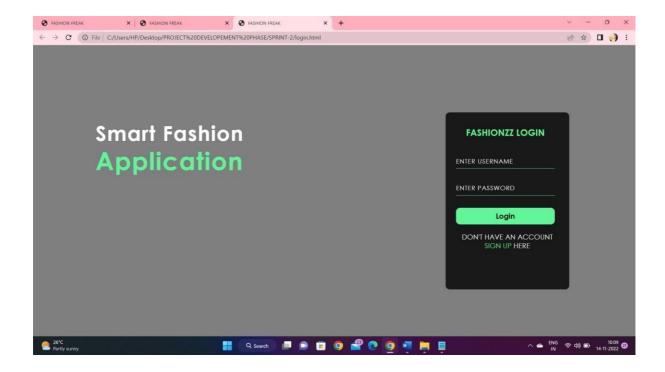
```
<html>
  <head>
    <meta name="viewpoint" content="width=device-width, initial-scale=1.0">
    <title>FASHION FREAK</title>
    link rel="stylesheet" href="https://storagedemo-madzh.s3.jp-tok.cloud-object-
storage.appdomain.cloud/Regcss.css">
  </head>
  <body>
    <div class="main">
      <div class="navbar">
         <div class="menu">
           ul>
           </div>
      </div>
```

```
<div class="content">
        <h1>Smart Fashion <br/>
<br/>
span>Application</span></h1>
          <div class="form">
            <h2>FASHIONZZ LOGIN</h2>
            <form action="/Login" method="post">
            <input type="text" name="username"</pre>
                                                 placeholder="ENTER
USERNAME">
            <input type="password" name="password" placeholder="ENTER</pre>
PASSWORD">
            <button type="SUBMIT" class="btnn"><a href="#">Login</a></button>
            DON'T HAVE AN ACCOUNT<br>
            <a href="/Register">SIGN UP </a> HERE </a>
            </form>
          </div>
      </div>
    </div>
```

PNT2022TMID44541

</body>

</html>



INTEGRATING CHATBOT WITH HTML PAGE (SOURCE CODE):

window.watsonAssistantChatOptions =

{

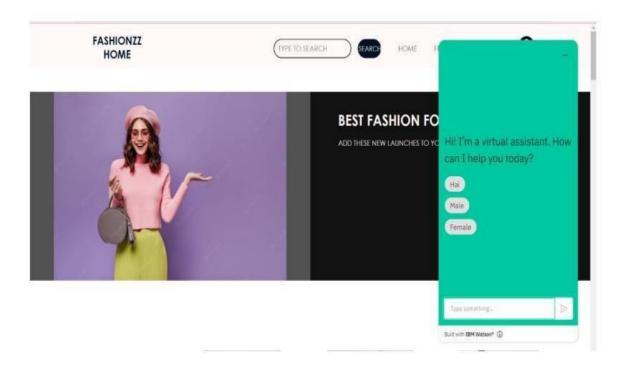
integrationID:

"614a4315-ff80-41878fe4-2fd9b506b723", //
The ID of this
integration.region: "ausyd", // The region your
integration is hosted in.
serviceInstanceID: "9670dcf8789f-4609-8d7a-6e25c412a9ec",

<script>

```
// 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>
```

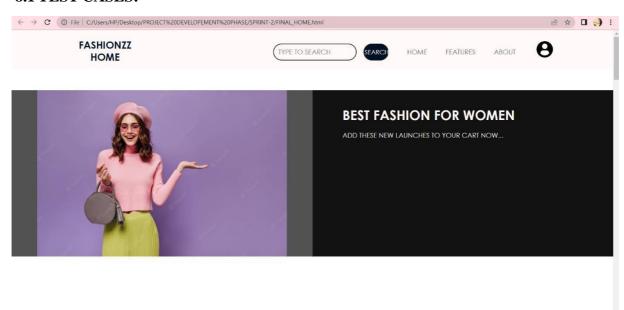
INTEGRATING CHATBOT WITH HTML PAGE:

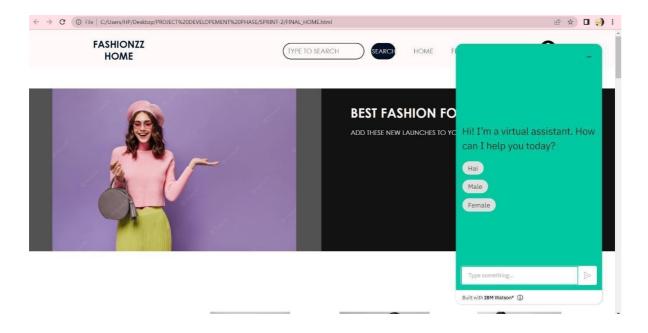


DATABASE SCHEMA:

7.TESTING

8.1 TEST CASES:





8. RESULTS

PERFORMANCE METRICS:

The performance of a recommendation algorithm is evaluated by using some specific metrics that indicate the accuracy of the system. The type of metric used depends on the type of filtering technique. Root Mean Square Error (RMSE), Receiver Operating Characteristics (ROC), Area Under Cover (AUC), Precision, Recall and F1 score is generally used toevaluate the performance or accuracy of the recommendation algorithms.

Root-mean square error (RMSE). RMSE is widely used in evaluating and comparing the performance of a recommendation system model compared to other models. A lower RMSE value indicates higher performance by the recommendation model. RMSE, as mentioned by [61], can be as represented as

$$RMSE = \sqrt{\frac{1}{N_p} \sum_{u,i} (p_{ui} - r_{ui})^2}$$
 (1)

where, N_p is the total number of predictions, p_{ui} is the predicted rating that a user u will select item i and r_{ui} is the real rating.

Precision. Precision can be defined as the fraction of correct recommendations or predictions (known as True Positive) to the total number of recommendations provided, which can be as follows:

$$Precision = \frac{True\ Positive\ (TP)}{True\ Positive\ (TP) + False\ Positive\ (FP)}$$
(2)

It is also defined as the ratio of the number of relevant recommended items to the number of recommended items expressed as percentages.

Recall. Recall can be defined as the fraction of correct recommendations or predictions (known as True Positive) to the total number of correct relevant recommendations provided, which can be as represented as follows:

$$Recall = \frac{True\ Positive\ (TP)}{True\ Positive\ (TP) + False\ Negative\ (FN)} \tag{3}$$

It is also defined as the ratio of the number of relevant recommended items to the total number of relevant items expressed as percentages.

F1 Score. F1 score is an indicator of the accuracy of the model and ranges from 0 to 1, wherea value close to 1 represents higher recommendation or prediction accuracy. It represents precision and recall as a single metric and can be as represented as follows:

$$F1 \ score = 2 \times \frac{Precision * Recall}{Precision + Recall}$$
(4)

Coverage. Coverage is used to measure the percentage of items which are recommended by the algorithm among all of the items.

Accuracy. Accuracy can be defined as the ratio of the number of total correct recommendations to the total recommendations provided, which can be as represented as follows:

$$Accuracy = \frac{TP + FN}{TP + FN + TN + FP} \tag{5}$$

Intersection over union (IoU). It represents the accuracy of an object detector used on aspec

$$IoU = \frac{TP}{TP + FN + FP}$$
 (6)

ROC. ROC curve is used to conduct a comprehensive assessment of the algorithm's performance [57]. **AUC**. AUC measures the performance of recommendation and its baselines as well as the quality of the ranking based on pairwise comparisons [5].

Rank aware top-N metrics. The rank aware top-N recommendation metric finds some of the interesting and unknown items that are presumed to be most attractive to a user [63]. Mean reciprocal rank (MRR), mean average precision (MAP) and normalized discounted cumulative gain (NDCG) are three most popular rank aware metrics.

MRR. MRR is calculated as a mean of the reciprocal of the position or rank of first relevant

$$MRR = \frac{1}{N_u} \sum_{u \in N_u} \frac{1}{L_u^n [k] \in R_u}$$
(7)

recommendation [64][65]. MRR as mentioned by [64][65] can be expressed as follows:

where u, N_u and R_u indicate specific user, total number of users and the set of items rated by the user, respectively. L indicates list of ranking length (n) for user (u) and k represents the position of the item found in the he lists L.

MAP: MAP is calculated by determining the mean of average precision at the points where relevant

$$MAP = \frac{1}{N_u |R_u|} \sum_{k=1}^n \mathbb{1}\left(L_u^n [k] \in R_u\right) P_u@k$$
(8)

products or items are found. MAP as mentioned by [65] can be expressed as follows.

where P_n represents precision in selecting relevant item for the user.

NDCG: NDCG is calculated by determining the graded relevance and positional information of the recommended items, which can be expressed as follows [65].

$$NDCG_{u} = \frac{\sum_{k=1}^{n} G(u, n, k) D(k)}{\sum_{k=1}^{n} G^{*}(u, n, k) D(k)}$$
(9)

where D(k) is a discounting function, G(u, n, k) is the gain obtained recommending an item found at k-th position from the list L and $G^*(u, n, k)$ is the gain related to k-th item in the ideal ranking of n size for u user.

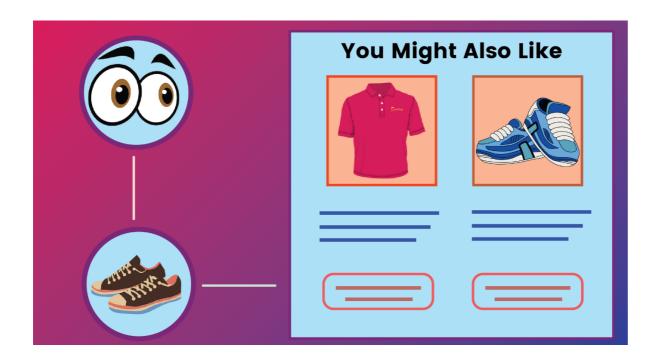
9. ADVANTAGES & DISADVANTAGES

ADVANTAGES:

- Smart fashion recommender application is the user friendly.
- With the help of chatbot user cand find the products very easily.
- This application used to discover the product based on the user's choice, very easily and quickly.
- It have ability to reduce transaction costs for consumers, and increase revenue for retailers.

DISADVANTAGES:

- It need active internet connection.
- Privacy concerns.
- Too many choices.
- Cold-start problem.



10. CONCLUSION

The Fashion Recommendation System is mainly used to recommend the best possible outfit combinations to a user who has no fashion sense based on their wardrobe. It may not always provide the best possible outfit to wear for an occasion as the system is dependent completely on the clothes present in the user's wardrobe. Also another reason is that fashion is highly dependent on the time period. However the system does a great job in inculcating a fashion sense among the users and can provide the best recommendations based on the user's wardrobe. Since the system is implemented as a website, it is very easy for the end users to access as well as use. The scope of this system can be expanded by including the ability to detect the various design and patterns on clothing, and to increase the number of occasions.

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.

11. FUTURE SCOPE

In the future, to implement this recommendation system to be extended to include male and non-binary fashion items including apparel, footwear, accessories etc. This work can further be enhanced to predict fashion items based on the skin colour and weather conditions.

Future research should concentrate on including time series analysis and accurate categorization of product images based on the variation in colour, 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.

For different markets, it could split in short-term and long-term recommendations in the future research. Current discussions and reviews are all based on short-term recommendations toward apparel retailing markets. It delivers real-time recommendations straight to the online shoppers as shopping advice and suggestions. Apart from online shopping, recommendations could also be utilized in design and manufacture by providing long term recommendations, such as predicting new trends through years and seasons.

12. APPENDIX

SOURCE CODE:

```
HOMEPAGE.html:
<html>
<head>
<title> FASHION FREAK </title>
</head>
<style>
*{
margin:
0;
padding: 0;
font-family: "Times New Roman", Times, serif;
}
.main{
width:
100%;
background: linear-gradient(to
top,rgba(0,0,0,0.5),rgba(0,0,0,0.5)50\%); background-position:
center;
background-size: cover;
height: 100%;
font-family: "Times New Roman", Times, serif;
}
.navbar{
width:
100%;
height:
75px;
margin:
auto;
}
.icon{
```

```
PNT2022TMID44541
        width:
        200px;float:
        left; height:
        70px;
        }
        logo{
        color:#FFFFF;
        font-size: 35px;
        padding-left:
        20px;float: left;
        padding-top: 10px;
        }
        .menu{
        width:
        400px;float:
        left; height:
        70px;
        }
        ul{
        float: left;
        display: flex;
        justify-content: center;
        align-items: center;
         }
ul li{
        list-style: none;
        margin-left:
        62px;margin-
        top: 27px;font-
        size: 15px;
        }
        ul li a{
        text-decoration:
        none;color:
```

```
PNT2022TMID44541
#FFFFFF;
font-weight: bold;
transition: 0.4s ease-in-
out;
}
ul li a:hover{
color: rgb(98, 246, 152);
}
.search{
width:
330px;
float: left;
margin-left: 270px;
}
.srch{
width:
200px;
height: 40px;
background: transparent;
border: 1px solid rgb(98, 246, 152);
margin-top: 13px; color: #FFFFFF; border-right:
none; font-size:
16px; float: left;
padding: 10px;
border-bottom-left-radius:
5px;border-top-left-radius:
5px;
}
.btn{
width:
100px;
height: 40px;
background:rgb(98, 246, 152);
border: 2px solid rgb(98, 246,
```

```
PNT2022TMID44541
152);margin-top: 13px;
color: #FFFFF;
font-size: 15px;
border-bottom-right-radius:
5px;border-bottom-right-
radius: 5px;
.btn:focus{
outline: none;
}
.content{
width: 1200px;
height: auto;
margin: auto;
color:
#800080;
position: relative;
.content.par{
padding-left:
20px;
padding-bottom:
25px;letter-spacing:
1.2px; line-height:
30px;
.content h1{
font-size:
50px;
padding-left: 20px;
margin-top: 9%;
letter-spacing:
```

2px;

```
PNT2022TMID44541
.content .cn{
width:
160px;
height: 40px;
background: rgb(98, 246,
152);border: none;
margin-bottom:
10px;margin-left:
20px; font-size:
18px; border-radius:
10px; cursor:
pointer; transition:
.4s ease;
}
.content .cn a{
text-decoration:
none;color:
#FBE7A1;
transition: .3s ease;
}
.cn:hover{
background-color: #FBE7A1;
}
.content span{
color:rgb(98, 246,
152);font-size: 60px;
}
.form{
width:
250px;height:
380px;
background: linear-gradient(to top,hsla(89, 43%, 51%, 0.3));
position: absolute;
top: -20px;
```

```
PNT2022TMID44541
left:
870px;
border-radius:
10px;padding:
25px;
}
.form h2{
width:
220px;
text-align: center;
color:rgb(98, 246,
152);font-size: 22px;
border-radius:
10px;margin: 2px;
padding: 8px;
.form input{
width:
240px;
height: 35px;
background: rgba(0, 255, 0, 0.5);
}
.form input{
width:
240px;
height: 35px;
background: rgba(0, 255, 0, 0.5);
border-bottom: 1px solid rgb(98, 246,
152);border-top: none;
border-right:
none;border-left:
none; color: #fff;
font-size: 15px;
letter-spacing:
1px;margin-top:
```

```
PNT2022TMID44541
30px;
.form
input:focus{
outline: none;
::placeholder{
color: #fff;
}
.btnn{
width:
240px;
height: 40px;
background: rgb(98, 246,
152);border: none;
margin-top: 30px;
font-size: 18px;
border-radius:
10px;cursor:
pointer; color: #fff;
transition: 0.4s
ease;
}
.btnn:hover{
background: #fff;
color: rgb(98, 246, 152);
}
.btnn a{
text-decoration:
none;color: #000;
font-weight: bold;
.form .link{
font-size:
```

17px;

```
PNT2022TMID44541
padding-top:
20px;text-align:
center;
.form .link a{
text-decoration: none;
color: rgb(98, 246, 152);
}
.liw{
padding-top: 15px;
padding-bottom:
10px;text-align:
center;
}
</style>
<body>
<div class="main">
<div class="navbar">
<div class="icon">
<h2 class="logo">FASHIONZZ</h2>
</div>
<div class="menu">
\langle ul \rangle
<a href="#">HOME</a>
<a href="#">ABOUT</a>
</div>
<div class="search">
<input class="srch" type="search" name="" placeholder="TYPE TO SEARCH">
<a href="#"><button class="btn">SEARCH</button></a>
</div>
<img src="C:\Users\HP\Downloads\fashion-banner-people-cartoon-characters-flat-</pre>
vector-illustration-isolated-fashion-banner-people-cartoon-characters-
190292392.jpg">
</div>
```

```
PNT2022TMID44541
</div>
</body>
</html>
INDEX PAGE.html:
<html>
<head>
<title> FASHION FREAK </title>
</head>
<style>
*{
margin:
0;
padding: 0;
font-family: "Times New Roman", Times, serif;
}
.main{
width: 100%;
background: linear-gradient(to top,
rgba(0,0,0,0.5), rgba(0,0,0,0.5)50\%); background-position: center;
background-size:
cover; height: 100%;
font-family: "Times New Roman", Times, serif;
}
.navbar{
width:
100%;
height:
75px;
margin:
auto;
}
.icon{
width:
200px;float:
```

```
PNT2022TMID44541
left; height:
70px;
}
.logo{
color:#FFFFF;
font-size: 35px;
padding-left:
20px;float: left;
padding-top: 10px;
.menu{
width:
400px;float:
left; height:
70px;
}
ul{
float: left;
display: flex;
justify-content:
center; align-items:
center;
}
ul li{
list-style: none;
margin-left:
62px; margin-top:
27px; font-size:
15px;
}
ul li a{
text-decoration:
none;color:
#FFFFF;
```

font-weight: bold;

```
PNT2022TMID44541
transition: 0.4s ease-in-
out;
}
ul li a:hover{
color: rgb(98, 246, 152);
}
.search{
width:
330px;float:
left;
margin-left: 270px;
.srch{
width:
200px;
height: 40px;
background: transparent;
border: 1px solid rgb(98, 246,
152);margin-top: 13px;
color: #FFFFF;
border-right:
none; font-size:
16px; float: left;
padding: 10px;
border-bottom-left-radius:
5px;border-top-left-radius:
5px;
}
.btn{
width:
100px;
height: 40px;
background:rgb(98, 246, 152);
border: 2px solid rgb(98, 246,
```

152);margin-top: 13px;

```
PNT2022TMID44541
color:
#FFFFF;font-
size: 15px;
border-bottom-right-radius:
5px;border-bottom-right-
radius: 5px;
}
.btn:focus{
outline: none;
}
.srch:focus{
outline: none;
}
.content{
width: 1200px;
height: auto;
margin: auto;
color: #FFFFF;
position: relative;
}
.content.par{
padding-left:
20px;
padding-bottom:
25px;letter-spacing:
1.2px; line-height:
30px;
}
.content h1{
font-size:
50px;
padding-left:
20px;margin-top:
9%; letter-
```

spacing: 2px;

```
PNT2022TMID44541
.content .cn{
width:
160px;
height: 40px;
background: rgb(98, 246,
152);border: none;
margin-bottom:
10px;margin-left:
20px;
font-size: 18px;
border-radius:
10px;cursor:
pointer; transition:
.4s ease;
}
.content .cn a{
text-decoration:
none;color: #000;
transition: .3s ease;
}
.cn:hover{
background-color: #fff;
}
.content span{
color:rgb(98, 246,
152);font-size: 60px;
}
.form{
width:
250px;height:
380px;
background: linear-gradient(to
top,rgba(0,0,0,0.8)50%,rgba(0,0,0,0.8)50%);position: absolute;
top: -20px;
```

```
PNT2022TMID44541
left: 870px;
border-radius:
10px;padding:
25px;
}
.form h2{
width:
220px;
text-align: center;
color:rgb(98, 246,
152);font-size: 22px;
border-radius:
10px;margin: 2px;
padding: 8px;
.form input{
width:
240px;
height: 35px;
background: transparent;
}
.form input{
width:
240px;
height: 35px;
background: transparent;
border-bottom: 1px solid rgb(98, 246,
152);border-top: none;
border-right:
none;border-left:
none; color: #fff;
font-size: 15px;
letter-spacing: 1px;
margin-top: 30px;
```

```
PNT2022TMID44541
.form
input:focus{
outline: none;
::placeholder
{color: #fff;
.btnn\{\\
width:
240px;
height: 40px;
background: rgb(98, 246,
152);border: none;
margin-top: 30px;
font-size: 18px;
border-radius:
10px;cursor:
pointer; color: #fff;
transition: 0.4s
ease;
}
.btnn:hover{
background:
#fff;
color: rgb(98, 246, 152);
}
.btnn a{
text-decoration:
none;color: #000;
font-weight: bold;
.form .link{
font-size:
17px;
```

padding-top:

```
PNT2022TMID44541
20px;text-align:
center;
}
.form .link a{
text-decoration: none;
color: rgb(98, 246, 152);
}
.liw{
padding-top: 15px;
padding-bottom:
10px;text-align:
center;
}
</style>
<body>
<div class="main">
<div class="navbar">
<div class="icon">
<h2 class="logo">FASHIONZZ</h2>
</div>
<div class="menu">
\langle ul \rangle
<a href="#">HOME</a>
<a href="#">ABOUT</a>
</div>
<div class="search">
<input class="srch" type="search" name="" placeholder="TYPE TO SEARCH">
<a href="#"><button class="btn">SEARCH</button></a>
</div>
</div>
<div class="content">
<h1>SMART FASHION <br><span>APPLICATION</span></h1>
<div class="FORM">
<h2>FASHIONZ LOGIN</h2>
```

```
PNT2022TMID44541
<form action="/Login" method="post">
<input type="text" name="username" placeholder="ENTER USERNAME">
<input type="password" name="password" placeholder="ENTER PASSWORD">
<but>button type="SUBMIT" class="btnn"><a href="#">LOGIN</a></button>
DON'T HAVE ACCOUNT<br/>a href="/REGISTER">SIGN UP </a> HERE</a>
</form>
</div>
</div>
</div>
</div>
</doty>
</html>
```

REGISTER PAGE.html:

```
<html>
<head>
<title> FASHION FREAK </title>
</head>
<style>
*{
margin:
0;
padding: 0;
font-family: "Times New Roman", Times, serif;
}
.main{
width:
100%;
background: linear-gradient(to top,
rgba(0,0,0,0.5),rgba(0,0,0,0.5)50%);background-position: center;
background-size: cover;
height: 100%;
font-family: "Times New Roman", Times, serif;
```

```
PNT2022TMID44541
.navbar{
width:
100%;
height:
75px;
margin:
auto;
}
.icon{
width: 200px;
float: left;
height: 70px;
}
.logo{
color:rgb(98, 246,
152);font-size: 35px;
padding-left: 20px;
float: left;
padding-top: 10px;
}
.menu{
width:
400px;float:
left; height:
70px;
}
ul{
float: left;
display: flex;
justify-content:
center; align-items:
center;
}
ul li{
```

```
PNT2022TMID44541
list-style: none;
margin-left:
62px;
margin-top:
27px;font-size:
15px;
}
ul li a{
text-decoration:
none;color: #ffff;
font-weight: bold;
transition: 0.4s ease-in-
out;
}
ul li a:hover{
color: rgb(98, 246, 152);
}
.search{
width:
330px;float:
left;
margin-left: 270px;
}
.srch\{
width:
200px;
height: 40px;
background: transparent;
border: 1px solid rgb(98, 246,
152);margin-top: 13px;
color: #ffff;
border-right:
none; font-size:
16px; float: left;
```

```
padding: 10px;
border-bottom-left-radius:
5px;border-top-left-radius:
5px;
}
.btn{
width:
100px;
height: 40px;
background:rgb(98, 246, 152);
border: 2px solid rgb(98, 246,
152);margin-top: 13px;
color: #ffff;
font-size: 15px;
border-bottom-right-radius:
5px;border-bottom-right-
radius: 5px;
.btn:focus{
outline: none;
}
.srch:focus{
outline: none;
}
.content{
width:
1200px;
height: auto;
margin: auto;
color: #ffff;
position: relative;
}
.content.par{
```

transition: .3s ease;

```
PNT2022TMID44541
.cn:hover{
background-color: #fff;
}
.content span{
color:rgb(98, 246,
152);font-size: 60px;
.}form{
width:
250px;height:
380px;
background: linear-gradient(to
top,rgba(0,0,0,0.8)50%,rgba(0,0,0,0.8)50%);position: absolute;
top: -20px;
left: 870px;
border-radius:
10px;padding:
25px;
}
.form h2{
width:
220px;
text-align: center;
color:rgb(98, 246,
152);font-size: 22px;
border-radius:
10px;margin: 2px;
padding: 8px;
}
.form input{
width:
240px;
height: 35px;
background: transparent;
```

```
form input{
width:
240px;
height: 35px;
background: transparent;
border-bottom: 1px solid rgb(98, 246,
152);border-top: none;
border-right:
none;border-left:
none; color: #fff;
font-size: 15px;
letter-spacing:
1px;
margin-top: 30px;
}
.form
input:focus{
outline: none;
}
::placeholder
{color: #fff;
}
.btnn{}
width:
240px;
height: 40px;
background: rgb(98, 246,
152);border: none;
margin-top: 30px; font-size: 18px;
color: #fff; transition:
0.4s ease;
```

.btnn:hover{

PNT2022TMID44541

```
PNT2022TMID44541
background: #fff;
color: rgb(98, 246, 152);
}
.btnn a{
text-decoration:
none;color: #000;
font-weight: bold;
}
.form .link{ font-
size: 17px;
padding-top:
20px;text-align:
center;
}
.form .link a{
text-decoration: none;
color: rgb(98, 246,
152);
}
.liw{
padding-top: 15px;
padding-bottom:
10px;text-align:
center;
}
</style>
<body>
<div class="main">
<div class="navbar">
<div class="icon">
<h2 class="logo">FASHIONZZ</h2>
</div>
<div class="menu">
ul>
```

```
PNT2022TMID44541
<a href="#">HOME</a>
<a href="#">ABOUT</a>
</div>
<div class="search">
<input class="srch" type="search" name="" placeholder="TYPE TO SEARCH">
<a href="#"><button class="btn">SEARCH</button></a>
</div>
</div>
<div class="content">
<h1>SMART FASHION <br><span>APPLICATION</span></h1>
<div class="form">
<h2>FASHIONZZ REGISTER</h2>
<form action="/Register" method="post">
<input type="text" name="username" placeholder="USERNAME">
<input type="email" name="email" placeholder="EMAIL ID">
<input type="password" name="password" placeholder="PASSWORD">
<button type="SUBMIT" class="btnn">REGISTER</button>
ALREADY HAVE AN ACCOUNT<br>
<a href="/Login">LOG IN</a> here</a>
</form>
</div>
</div>
</div>
</body>
</html>
LOGIN:
<html>
  <head>
    <meta name="viewpoint" content="width=device-width, initial-scale=1.0">
    <title>FASHION FREAK</title>
    k rel="stylesheet" href="https://storagedemo-madzh.s3.jp-tok.cloud-object-
```

```
storage.appdomain.cloud/Regcss.css">
  </head>
  <body>
     <div class="main">
       <div class="navbar">
         <div class="menu">
           ul>
           </div>
       </div>
       <div class="content">
         <h1> SMART FASHION <br/> <br/> <pan>APPLICATION</pan></h1>
           <div class="form">
             <h2>FASHIONZZ LOGIN</h2>
             <form action="/Login" method="post">
             <input type="text" name="username"</pre>
                                                 placeholder="ENTER
USERNAME">
             <input type="password" name="password" placeholder="ENTER</pre>
PASSWORD">
             <button type="SUBMIT" class="btnn"><a href="#">LOGIN</a></button>
             DON'T HAVE AN ACCOUNT<br>
             <a href="/Register">SIGN UP </a> HERE </a>
             </form>
          </div>
       </div>
     </div>
   </body>
</html>
```

FINALHOME:

```
<html>
  <head>
    <meta name="viewpoint" content="width=device-width, initial-scale=1.0">
    <title>FASHION FREAK</title>
    k rel="stylesheet" href="https://storagedemo-madzh.s3.jp-tok.cloud-object-
storage.appdomain.cloud/MadmukFinalhomecss.css">
  </head>
  <body>
      <nav>
        <a class="logo" href="MadFinalhome.html"><h2>FASHIONZZ HOME</h2></a>
        ul>
           <input class="srch" type="search" name="" placeholder="TYPE TO</li>
SEARCH">
           <a href="#"><button class="btn">SEARCH</button></a>
           <a href="#">HOME</a>
           <a href="#">FEATURES</a>
           <a href="#">ABOUT</a>
        <img src="https://storagedemo-madzh.s3.jp-tok.cloud-object-</pre>
storage.appdomain.cloud/images/profile.jpeg" class="user-pic" onclick="toggleMenu()">
        <div class="sub-menu-wrap" id="subMenu">
           <div class="sub-menu">
             <div class="user-info">
               <img src="https://storagedemo-madzh.s3.jp-tok.cloud-object-</pre>
storage.appdomain.cloud/images/profile.jpeg">
               <h2>NAME</h2>
             </div>
             <hr>
             <a href="#" class="sub-menu-link">
               <img src="https://storagedemo-madzh.s3.jp-tok.cloud-object-</pre>
storage.appdomain.cloud/images/profile.jpeg">
```

```
PNT2022TMID44541
                                  EDIT PROFILE
                             </a>
                             <a href="#" class="sub-menu-link">
                                  <img src="https://storagedemo-madzh.s3.jp-tok.cloud-object-</pre>
storage.appdomain.cloud/images/settings.jpeg">
                                  SETTING & PRIVACY
                             </a>
                             <a href="#" class="sub-menu-link">
                                  <img src="https://storagedemo-madzh.s3.jp-tok.cloud-object-</pre>
storage.appdomain.cloud/images/help.jpeg">
                                 HELP
                             </a>
                            <a href="/Login" class="sub-menu-link">
                                  <img src="https://cdn-icons-png.flaticon.com/512/56/56805.png">
                                  LOGOUT
                             </a>
                        </div>
                   </div>
              </nav>
          <div class="Banner">
            <div class="Bannerimg1"> <img img class="image" src="https://img.freepik.com/free-</pre>
photo/joyful-parisian-woman-beret-sunglasses-points-place-text-purple-wall_197531-
24604.jpg?w=2000"></div>
              <div class="Adcontent">
                   <h1><br/>br>BEST FASHION FOR WOMEN</br></h1>
                   <br/>domain </pre
              </div>
         </div>
          <div class="rowstart">
```

```
<div class="columnst"> <div class="depimg"> <img class="image"</pre>
src="https://cdn0.weddingwire.in/article/2617/original/1280/jpg/107162-wedding-dresses-
      for-girls-6.jpeg"> </div> <div class="Bottom"> WEDDING & FESTIVE </div>
</div>
      <div class="columnst"> <div class="depimg"> <img class="image"</pre>
src="https://previews.123rf.com/images/vadymvdrobot/vadymvdrobot1801/vadymvdrobot18
0102335/94122785-full-length-image-of-smiling-asian-woman-in-business-clothes-and-
eyeglasses-holding-smartphone-while.jpg"> </div> <div class="Bottom">BACK TO
DESK</div></div>
      <div class="columnst"> <div class="depimg"> <img class="image"</pre>
src="https://i.pinimg.com/474x/29/00/fa/2900fa4d1599631766420338e531b2b2.jpg"> </div>
<div class="Bottom">VACAY MOOD</div> </div>
      <div class="columnst"> <div class="depimg"> <img class="image"</pre>
src="https://img.faballey.com/images/Product/DRS02948Z/1.jpg"> </div> <div
class="Bottom">PARTY ALL NIGHT</div> </div>
    </div>
    <div class="Banner">
      <div class="Bannerimg2"> <img img class="image"</pre>
src="https://bluejay.com.my/wp-content/uploads/2021/12/Kids-clothes-Hong-Kong-
seed.jpg"></div>
      <div class="Adcontent2">
         <h1><br>KIDS FASHION</br></h1>
         <br>LET OUR FUTURE BE STYLISH ....</br>
      </div>
```

```
PNT2022TMID44541
    </div>
    <div class="row">
      <div class="column"> <div class="depimg"> <img class="image"</pre>
src="https://cdn.shopify.com/s/files/1/0266/6276/4597/files/floral_ethnic_wear_for_kids_by_
      utsa.jpg?v=1597833877"> </div> <div class="Bottom">ETHNIC WEAR</div>
</div>
      <div class="column"> <div class="depimg"> <img class="image"</pre>
src="https://i.pinimg.com/736x/8a/f8/59/8af859d60ef9667726b206e1be2378e4.jpg"> </div>
<div class="Bottom">WINTER WEAR</div> </div>
      <div class="column"> <div class="depimg"> <img class="image"</pre>
src="https://i.pinimg.com/474x/9a/c2/85/9ac28569bd3bade0aa23bd74aaa8c0a9.jpg"> </div>
<div class="Bottom">DRESSES & JUMPSUITS</div> </div>
<div class="column"> <div class="depimg"> <img class="image"</pre>
src="https://i.pinimg.com/564x/1b/c1/d5/1bc1d56f08959760738a0386f231d3fc.jpg"> </div>
<div class="Bottom">TOPS & TEES</div> </div>
    </div>
    <div class="Banner">
      <div class="Bannerimg1"> <img img class="image"</pre>
src="https://images.hindustantimes.com/rf/image_size_630x354/HT/p2/2018/01/30/Pictures/
_21667342-05ba-11e8-90ea-37dc70df54a3.jpg"></div>
      <div class="Adcontent">
         <h1><br>MENS FASHION</br></h1>
         <br/>br>WE ALSO PROVIDE TRENDY COLLECTIONS FOR MEN..ALWAYS
"MEN WILL BE MEN"</br>
      </div>
    </div>
```

```
PNT2022TMID44541
```

```
<div class="row">
      <div class="column"> <div class="depimg"> <img class="image"</pre>
src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRPYVjlrL-
LxLn_nhnDfHJx09_dUQsTRgkM69nENo7WKE6EKe555GjYDI7leLNGsKyGvR8&usqp=
CAU"> </div> <div class="Bottom">T-SHIRTS & POLOS</div> </div>
      <div class="column"> <div class="depimg"> <img class="image"</pre>
src="https://encrypted-
tbn0.gstatic.com/images?q=tbn:ANd9GcTIFeIqHpb2srr3FnKvSDnAUdz225j0v_Ijo-
KuIZzvS2O5LHuyxBNYzfy8HgQ_Hi6WbDQ&usqp=CAU"> </div> <div
class="Bottom">CASUAL SHIRTS</div> </div>
      <div class="column"> <div class="depimg"> <img class="image"</pre>
src="https://assets.myntassets.com/dpr_1.5,q_60,w_400,c_limit,fl_progressive/assets/images/
10498568/2020/6/10/f1bc48ac-9997-4be1-8ce3-81cc6d5e61061591736177979-HRX-by-
Hrithik-Roshan-Men-Grey-Solid-Regular-Fit-Training-Jo-1.jpg"> </div> <div
class="Bottom">SPORTS WEAR</div> </div>
      <div class="column"> <div class="depimg"> <img class="image"</pre>
src="https://images.express.com/is/image/expressfashion/0037_04105431_0512?cache=on&
wid=361&fmt=jpeg&qlt=75,1&resmode=sharp2&op_usm=1,1,5,0&defaultImage=Photo-
Coming-Soon"> </div> <div class="Bottom"> SWEATSHIRTS & JACKETS </div> </div>
    </div>
    <div class="Banner">
      <div class="Bannerimg2"> <img class="image"</pre>
src="https://lh3.googleusercontent.com/KDJ_WZU_7c-
GHi14G03oqXb6ZSgTiDJr8L7Rid5jA9pRPAdUOgfQQYAPDLGN9Sn3eJC6B1F4qchid_0
mHWn_jficXrs=w400-rw"></div>
      <div class="Adcontent2">
        <h1><br>ACCESSORIES</br></h1>
```

```
<br/>STHE ANOTHER THING WHICH MAKES A PERSON FASHIONABLE IS
ACCESSORIES</br>
      </div>
    </div>
    <div class="rowend">
     <div class="columnend"> <div class="depimg"> <img class="image"</pre>
src="https://5.imimg.com/data5/FJ/AH/MY-42396081/combo-sets-28american-diamond-
jewellery-29-500x500.jpg"> </div> <div class="Bottom">JEWELLERY</div> </div>
     <div class="columnend"> <div class="depimg"> <img class="image"</pre>
src="https://encrypted-
tbn0.gstatic.com/images?q=tbn:ANd9GcTaoxLoX2lgaVWFtaGkCvyrozucBLTpaV4LJd9xx
2sRoqoums9kp9soRVXOKw6_rkVxsZk&usqp=CAU"> </div> <div
class="Bottom">SUNGLASSES</div> </div>
     <div class="columnend"> <div class="depimg"> <img class="image"</pre>
src="https://encrypted-
tbn0.gstatic.com/images?q=tbn:ANd9GcRJKjvaIU1qatbXinxMNRfWE338fXEl7t69TQ&usq
p=CAU"> </div> <div class="Bottom">WATCHES</div> </div>
     <div class="columnend"> <div class="depimg"> <img class="image"</pre>
src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQSWDKgpQeZ-3VNR7-
9SfaVGVvqOawrkZiLdNfSpjNNQJNI6hl8cJg0Qs_DZfpJtizUst0&usqp=CAU"></div>
<div class="Bottom">HANDBAGS & CLUTCHES</div> </div>
    </div>
  <script>
    let subMenu = document.getElementById("subMenu");
    function toggleMenu(){
```

```
PNT2022TMID44541
       subMenu.classList.toggle("open-menu");
    }
 </script>
  </body>
  <footer>
   <div class="footer"> <H1>BE HAPPY</H1></div>
  </footer>
</html>
INTEGRATING CHATBOT WITH HTML PAGE (SOURCE CODE):
<script>
Window.watsonAssisstantChatOptions
= {
integrationID: "614a4315-ff80-4187-8fe4-2fd9b506b723", // The ID of this integration. region:
"au-syd", // The region your integration is hosted in.
serviceInstanceID: "9670dcf8-789f-4609-8d7a-6e25c412a9ec", // 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>
```

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GITHUB & PROJECT DEMO LINK	
GITHUB LINK:	
https://github.com/IBM-EPBL/IBM-Project-47574-1660800255	
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