

SMART FASHION RECOMMENDER APPLICATION

A PROJECT REPORT

Submitted by

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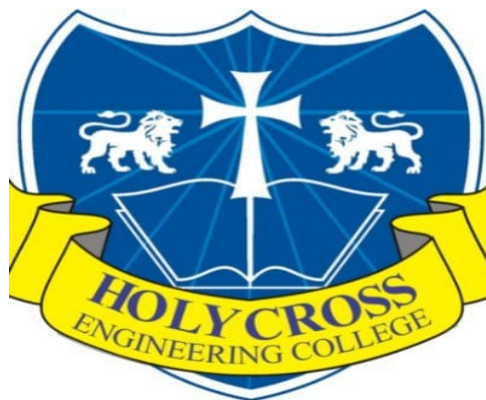
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ACKNOWLEDGEMENT

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DATE:

20/11/2022

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1.INTRODUCTION

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. Image-based fashion recommendation systems (FRSs) have attracted a huge amount of attention from fast fashion retailers as they provide a personalized shopping experience to consumers. With the technological advancements, this branch of artificial intelligence exhibits a tremendous amount of potential in image processing, parsing, classification, and segmentation. Despite its huge potential, the number of academic articles on this topic is limited. The available studies do not provide a rigorous review of fashion recommendation systems and the corresponding filtering techniques. To the best of the authors' knowledge, this is the first scholarly article to review the state-of-the-art fashion recommendation systems and the corresponding filtering techniques. In addition, this review also explores various potential models that could be implemented to develop fashion recommendation systems in the future. This paper will help researchers, academics, and practitioners who are interested in machine learning, computer vision, and fashion retailing to understand the characteristics of the different fashion recommendation systems.

1.1 Overview of Recommendation System

The era of recommendation systems originally started in the 1990s based on the widespread research progress in Collective Intelligence. During this period, recommendations were generally provided to consumers based on their rating structure. The first consumer-focused recommendation system was developed and commercialized by Goldberg, Nichols, Oki and Terry in 1992. Tapestry, an electronic messaging system was developed to allow users only to rate messages as either a good or

bad product and service . However, now there are plenty of methods to obtain information about the consumer's liking for a product through the Internet. These data can be retrieved in the forms of voting, tagging, reviewing and the number of likes or dislikes the user provides. It may also include reviews written in blogs, videos uploaded on YouTube or messages about a product. Regardless of communication and presentation, medium preferences are expressed in the form of numerical values. Table 1 presents the history of the progress of fashion recommendation systems over the last few decades.

1.2 purpose

Recommendation system (RS) is referred to as a decision-making approach for users under a multidimensional information environment . RS has also been defined as an e-commerce tool, which helps consumers search based on knowledge that is related to a consumer's choices and preferences . RS also assists in augmenting social processes by using the recommendations of other users when there is no abundant personal information or knowledge of the alternatives. RS handles the complication of information overload that consumers usually encounter by offering customized service, exclusive content, and personalized recommendations. There are multiple phases involved in the recommendation system that develop the foundation of any state-of-the-art recommendation system. These are defined as the information collection phase, the learning phase, and the recommendation phase. The interrelationship of these phases involved in the recommendation process. It shows that information collection is the initial stage of RS, which is followed by the learning phase and the recommendation phase. The recommendation provided in the last phase can be generated based on information gathered during the information collection phase.

2.LITERATURE SURVEY

2.1Existing problem

Too many choices

Alternatively, you could employ an off-the-shelf solution from a third-party company, but with so many options available on the market, how do you know which is the right one for your business? Evaluating different solutions can be enormously time consuming, as you need to evaluate their case studies, the technology, how the solution will be integrated into your current company setup, and so on.

Lack of data analytics capability

Like all AI-based technologies, recommendation engines rely on data – if you do not have high-quality data, or cannot crunch and analyze it properly, you will not be able to make the most of the recommendation engine. To ensure the best-quality data, you should ask yourself four questions: How recent is it? How noisy is it? How diverse is it? How quickly can you feed new data to your deep learning model? Deep learning-based recommendation engines can demand high computational complexity. If the data that is fed to the model is less accurate or valuable, the result will be less useful. So, before investing in recommendation engines, make sure your business is up to the complex data analytics demands required.

Inability to capture changes in user behavior

Consumers do not stand still – they are constantly behaving and evolving both as people and customers. Staying on top of these changes is a constant battle. A strong recommendation engine will be able to identify changes (or signs of an impending changes) in customers' preferences and behavior, and constantly auto-train themselves in real time in order to serve relevant recommendations.

Privacy concerns

The more the algorithm knows about the customer, the more accurate its recommendations will be. However, many customers are

hesitant to hand over personal information, especially given several high-profile cases of customer data leaks in recent years. However, without this customer data, the recommendation engine cannot function effectively. Therefore, building trust between the business and customers is key.

2.2References

CASE STUDY I TITLE

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

AUTHOR

Pegah Malekpour Alamdari, N. J. Navimipour, M. Hosseinzadeh: 2020

PROJECT DESCRIPTION

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).Implementation of e-commerce used on cloud computing using asp.net technology

AUTHOR

Samson Oluwaseun Fadiya, Acheme Odeh, Emeka Joshua Chukwuemeka :2016 PROJECT DESCRIPTION In this paper, the client is given an e-commerce website that is utilized as a part of a cloud domain to

discover the store and its locations online. To actualize this.

CASE STUDY 2 TITLE

as a web application, we utilized ASP.NET as the Technology. ASP.NET has a few preferences, for example, improved execution, scalability, built-in security and simplicity. To build any web application utilizing ASP.NET we require a programming language, for example, C#, VB.NET, J# and so on. VB.NET was the language used to build this application. For the customer browser to associate with the ASP.NET engine, we utilized Microsoft's Internet Information Services (IIS) as the Web Server. ASP.NET utilizes ADO.NET to interact with the database as it gives in-memory caching that takes out the need to contact the database server as often as possible and it can without much of a stretch send and keep up an ASP.NET application. MSSQL was utilized as back-end database since it gives quick data access, easy installation, and simplicity.

CASE STUDY 3 TITLE

Predicting Customer Lifetime Value with AIP Platform on cloud based ecommerce website or web application

AUTHOR

Ziv Pollak:2021

PROJECT DESCRIPTION

Predicting customer future purchases and lifetime value is a key metrics for managing marketing campaigns and optimizing marketing spend. This task is specifically challenging when the relationships between the customer and the firm are of a noncontractual nature and therefore the future purchases need to be predicted based mostly on historical purchases. This work compares two approaches to predict customer future purchases, first using a “buytill-you-die” statistical model to predict customer behavior and later using a neural network on the same dataset and comparing the results. This comparison will lead to both quantitative and qualitative analysis of those two methods as well as recommendation on how to proceed in different cases and opportunities for future research.

CASE STUDY 4

TITLE

A Case Study on Recommendation Systems Based on Big Data

AUTHOR

M. Sandeep Kumar and J. Prabhu :2019

PROJECT DESCRIPTION

Recommender systems mainly utilize for finding and recover contents from large datasets; it has been determining and analysis based on the scenario—Big Data. In this paper, we describe the process of recommendation system using big data with a clear explanation in representing the operation of mapreduce. We demonstrate the various stage of recommendation namely data collection rating, types of filtering. Analysis Scenario based drug recommender system, it consists of three components namely drug storage, cloud server, and recommender server. The system is evaluating with specific parameters like Fscore, Precision, and recall. Finally, we describe the challenge of recommendation systems like data sparsity, cold start, sentimental analysis and No surprise.

Building an e-commerce recommendation system by using

CASE STUDY 5**TITLE**

Big Query Machine Learning

AUTHOR

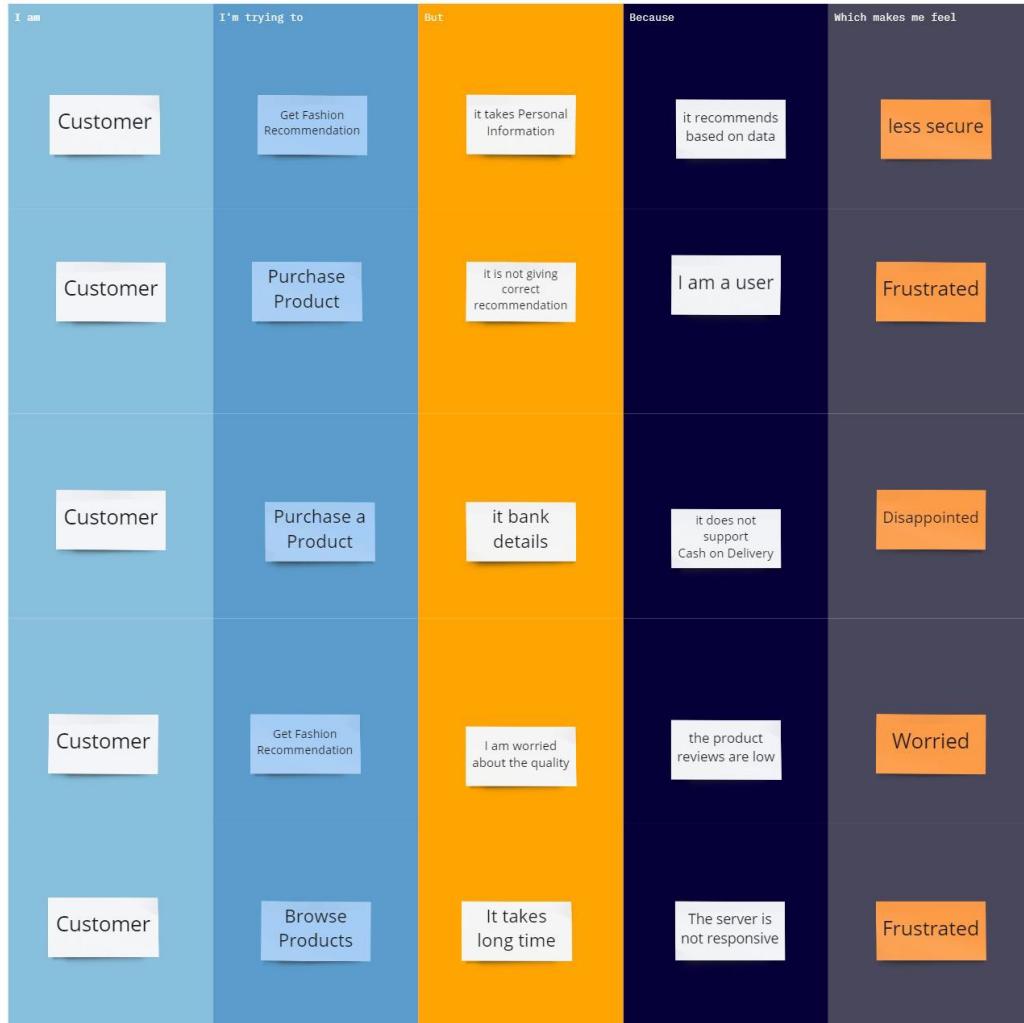
Farah Tawfiq Abdul Hussien , Abdul Monem S. Rahma :2021

PROJECT DESCRIPTION

The technological development in the devices and services provided via the Internet and the availability of modern devices and their advanced applications, for most people, have led to an increase in the expansion and a trend towards electronic commerce. The large number and variety of goods offered on e-commerce websites sometimes make the customers feel overwhelmed and sometimes make it difficult to find the right product. These factors increase the amount of competition between global commercial sites, which increases the need to work efficiently to increase financial profits. The recommendation systems aim to improve the e-

commerce systems performance by facilitating the customers to find the appropriate products according to their preferences. There are lots of recommendation system algorithms that are implemented for this purpose. However, most of these algorithms suffer from several problems, including: cold start, sparsity of user-item matrix, scalability, and changes in user interest. This paper aims to develop a recommendation system to solve the problems mentioned before and to achieve high realistic prediction results this is done by building the system based on the customers' behavior and cooperating with the statistical analysis to support decision making, to be employed on an e-commerce site and increasing its performance. The project contribution can be shown by the experimental results using precision, recall, F-function, mean absolute error (MAE), and root mean square error (RMSE) metrics, which are used to evaluate system performance.

2.3 Problem statement definition



miro

3 IDEATION & PROPOSED SOLUTION

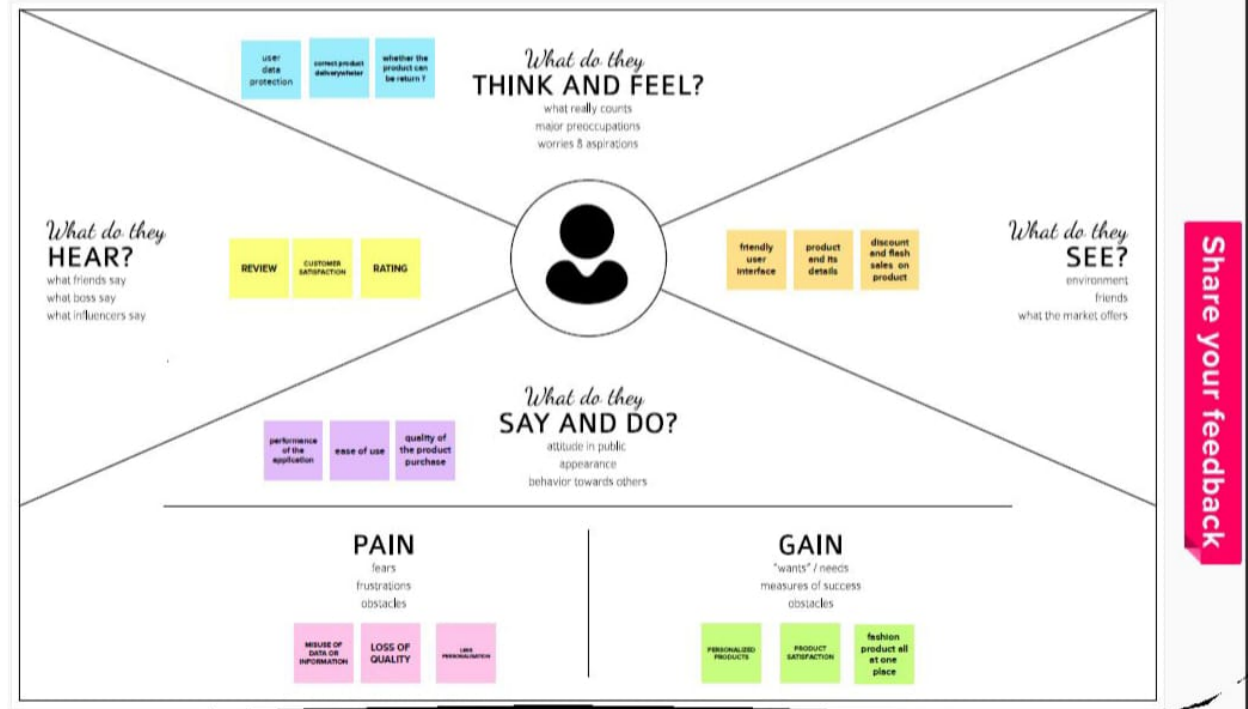
3.1 Empathy Map Canvas

Empathy Map Canvas

Gain insight and understanding on solving customer problems.

1

Build empathy and keep your focus on the user by putting yourself in their shoes.



3.2 Ideation & Brainstorming



Before you collaborate

This application provides us top-class fashion recommendation of choices for user preferences. It recommends products and notifies deals on products.

🕒 10 minutes



Team gathering

Jasmine mary (teamleader) will gather group and instruct,asked ideas and lead the group further.



Set the goal

- Clean UI
- improve soft skills
- plan new programming leneuege
- Accurate results



Learn how to use the facilitation tools

Youtube,IBM classes,websites

Open article →

1

Define your problem statement

In this project, we work on solving the product recommendation algorithm and fashion choices for users. It notifies the user on succesful purchasing and also on deals .

🕒 5 minutes

PROBLEM

Lack of data analytics capability.
Too many choices
inability to capture changing user
behavior. Privacy concerns, the
complex on boarding process.



Key rules of brainstorming

To run an smooth and productive session



Stay in topic.



Encourage wild ideas.



Defer judgment.



Listen to others.



Go for volume.



If possible, be visual.

2

Brainstorm

Ideas that come to mind that address your problem statement.

🕒 10 minutes

TIP



You can select a sticky note and hit the pencil [switch to sketch] icon to start drawing!

Jasmine mary.p

Requires lot amount of user data	The algorithm filters based on the user's interactions to make recommendation	privacy concerns may arise you're user data storing and accessing
security problem to arise which causes confidentiality or identity similarity to consumer interest	Significant investment is requirement for creating a recommendation	

manju.t

user behavior is not good tool because the trends are always changing	Learning new skills and tools is hard and time consuming	Each recommendation is unique, user data, habits, interest & likes a different user of experience will different time for the recommendation
there is less privacy for user data	This system would recommend some sort of products based on the privacy to every other user	

keerthika .e

Algorithm suggest will find recommendation is difficult if you unable to keep up with number trends	building and managing recommendation system today requires specialized expertise	changing preferences
could start problems to occur when items added to catalog for other items or user data interactive	Too many choices will be provided while recommending products	

durgadevi.k

Item recommendation don't work because there are too many product features attributes in features	In ability to capture changes in user behaviour	Attributes may be incorrect are inconsistent
Every time new product is added its attributes must be defined and tagged	Try to keep ideas clean and neat	

3

Group Ideas

Shared ideas and we can make further planning based on group discussion.

🕒 20 minutes

Jasmine

**Try to keep
it clean and
simple**

Manju

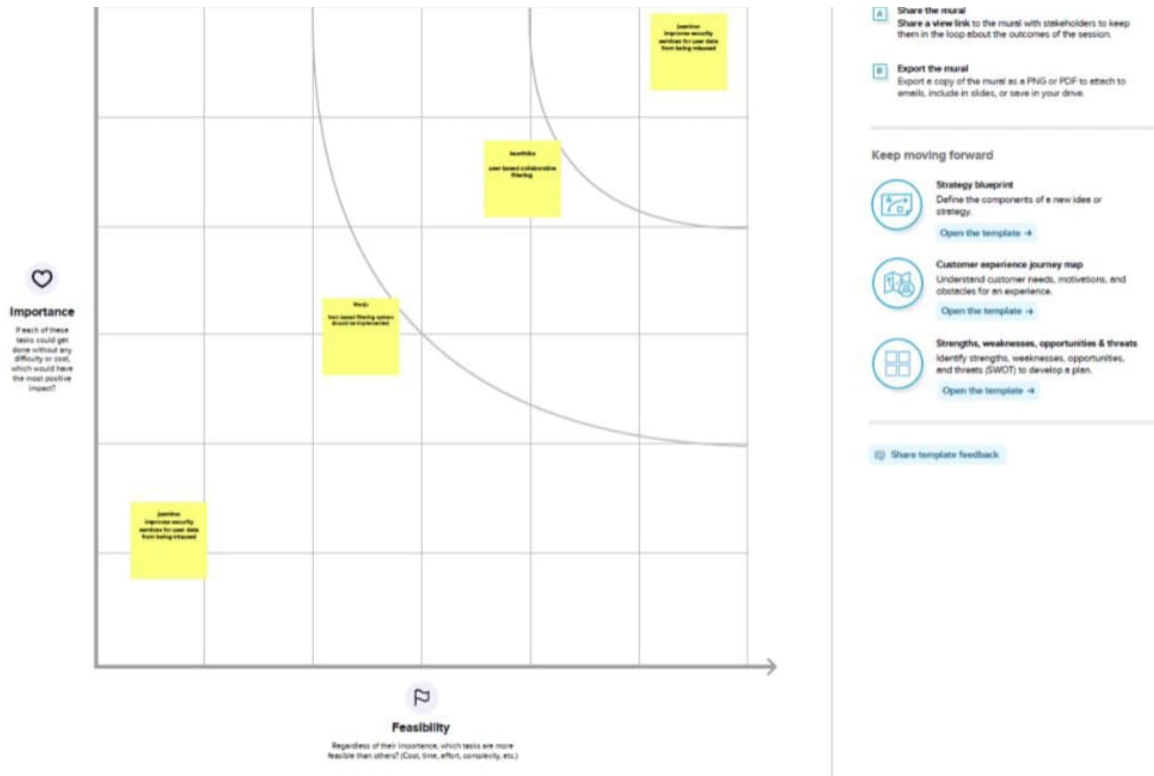
**reduce
complexity
by adding new
libraries**

keerthika

**improve
visualisation by
using flowcharts
e. t. c,**

durga devi

**improve
accuracy of
recommended
products**



3.3Proposed solution

parameter Description


Problem Statement (Problem to be solved)	<p>Navigating between various screens to make an online purchase. This One is the grumpy one.</p> <ul style="list-style-type: none"> Typically, e-commerce features include searching for a user's product may take more time. Search bar leads to the customer finding a product that is unrelated to what they were looking for.
Idea / Solution description	<ul style="list-style-type: none"> You can directly do your online shopping based on your choice


	<p>without any search. It can be done by using a chatbot.</p> <ul style="list-style-type: none"> • User recommendations can be made by the chatbot depending on their interests. • It may advertise the day's top specials and promotions. • It will keep a database of the customer's information and orders. • If the order is accepted, the chatbot will notify the customers. • Chatbots can be useful for gathering consumer reviews.
Novelty / Uniqueness	<ul style="list-style-type: none"> • Chatbot is like talking to a person • Customized product search • 24x7 support • Personalization • Reduced costs • Prioritize responsiveness
Social Impact / Customer satisfaction	<p>Increase sales and conversations Satisfaction</p> <ul style="list-style-type: none"> • Personalize the customer experience • Build brand awareness • Deal with customer queries • Accurate and quick product search
Business Model (Revenue Model)	Growth opportunities • Fits

	into the pocket <ul style="list-style-type: none"> • Economical Development • Uncomplicated interface
Scalability of the Solution	Improved customer engagement • Drive sales <ul style="list-style-type: none"> • Reduce customer acquisition cost • Immediate response for customer queries.

3.4 Problem Solution fit

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS Who is your customer? i.e. working parents of 0-5 y.o. kids 1. Everyone Example: Men, Women, Youngsters, childrens and so on.	6. CUSTOMER CONSTRAINTS CC What constraints prevent your customers from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available devices. 1. Network connections and no online payment for some value products. 2. Users need to search for products and navigate across screens to view the product, add them to the cart, and order products	5. AVAILABLE SOLUTIONS AS Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? i.e. pen and paper is an alternative to digital notetaking 1. Using different algorithms for effective interaction and response from chatbot. 2. Easy to explore products.	Explore AS, differentiate
	2. JOBS-TO-BE-DONE / PROBLEMS J&P 1. Determine the input given by the Users. 2. Helps user to navigate easily 3. User friendly 4. Chatbots understands the customer concerns and assists them just right, round the clock.	9. PROBLEM ROOT CAUSE RC 1. Security 2. Adapting new technologies 3. Business model 4. Society	7. BEHAVIOUR BE 1. Collecting data and help user to use the application cool. 2. Find right products that the user wants. 3. Conversion of Chatbot leads customer better experience and feasibility. 4. Chatbots using shopping serve as a powerful lead generation tool for online retailers.	
Identify strong TR & EM	3. TRIGGERS TR 1. Have you ever had a decision fatigue? 2. Seeing neighbours using chatbot. 4. EMOTIONS: BEFORE / AFTER EM Before: Anxiety, Decision fatigue. After: Clearmind, Peacefulness.	10. YOUR SOLUTION SL 1. Creating an Interactive Chatbot. 2. Responsive Design for every screen sizes. 3. 24/7 Interaction. 4. Online Payment	8. CHANNELS of BEHAVIOUR CH 8.1 ONLINE Social Media-Brand through Social Media Online-Orders through online and Payments too. Subscription based services 8.2 OFFLINE Stores- Sales person at store Manual billing, manual selection.	Export online & offline CH of BE

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4. REQUIREMENT ANALYSIS

4.1 Functional requirement

FR NO	Functional Requirement (Epic)	Requirement (Story / Sub-Task)
FR 1	User Registration	Registration through mail Registration through Gmail
FR 2	User Confirmation	Confirmation via Email Confirmation via OTP
FR 3	User Login	user using user name & password
FR 4	Personal Details	Personal details through Form Personal details through UI Tab
FR 5	Delivery Confirmation	Confirmation via Email Confirmation via Phone

4.2 Non functional Requirements

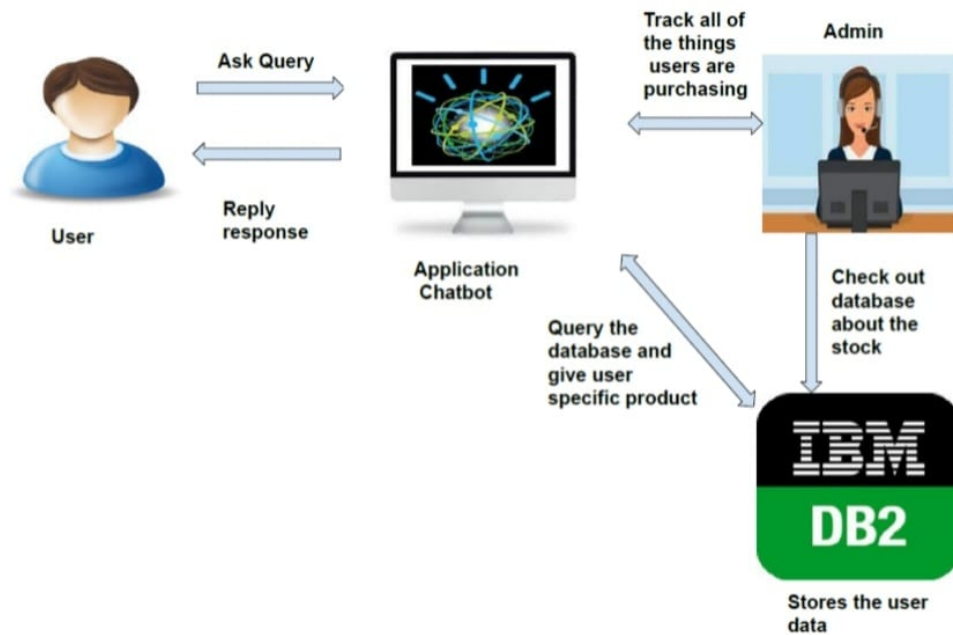
NFR	Non-Functional Requirement	Description
NFR 1	Usability	Ease of use of the application for the user
NFR 2	Security	User privacy is the highest priority of the application. Security measures are undertaken for the user
NFR 3	Reliability	It can handle more

		than 2000 users at a time. It can process and initialize most functions.
NFR 4	Performance	The application can handle complex tasks and supports multi-tasking.
NFR 5	Availability	It is a free web and application available on all platforms.
NFR 6	Scalability	With higher workloads the user will experience a 10 to 17% drop in performance.

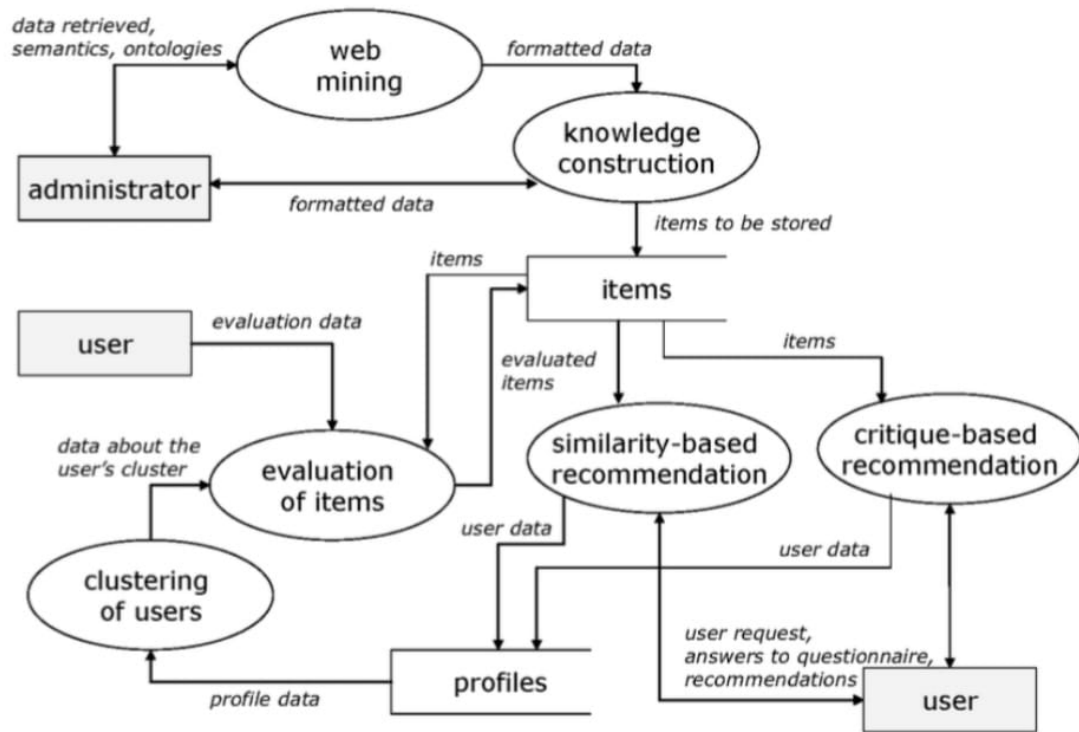
5.PROJECT DESIGN

5.1 Data flow Diagrams

Fashion Recommender: (Simplified)

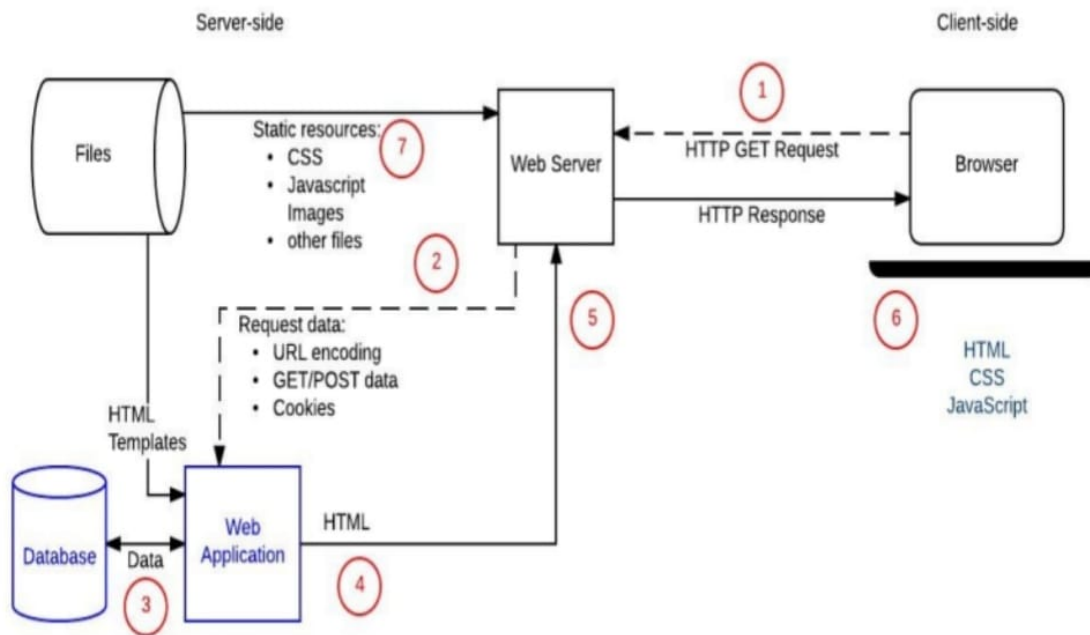


DFD of Fashion Recommender (Industry Standard)



5.2 Solution & technical Architecture

Solution Architecture



Technical Architecture



Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	user interaction with application e.g. Web UI & Chatbot	HTML, CSS,Bootstrap JavaScript
2.	Application Logic	Logic for a process in the application	Python - Flask
3.	Email Service	For verify user and mail ads	SendGrid
4.	Chatbot	Get details from user and store	IBM Watson Assistant
5.	Cloud Database	Database Service on Cloud	IBM DB2
6.	Infrastructure (Server / Cloud)	Application Deployment on Cloud System	Docker, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Used Web technologies	HTML , CSS , JS , Python , Flask
2.	Security Implementations	User verification through Email Service	Sendgrid
3.	Scalable Architecture	Run the app in Local and Cloud System	Docker and Kubernetes
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Docker , IBM Cloud
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	IBM Cloud , Kubernetes Cluster , Container Registry

5.3 User Stories

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 Email	I can register & access the dashboard with Email Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail	I can register & access the dashboard with Gmail Login	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering my username/email & password	I can login into the application with Gmail Login	High	Sprint-1
	Dashboard	USN-5	As a user, I can log access the Dashboard of the application by logging into the application	I can access the Dashboard by logging into the application	High	Sprint-1
Customer (Web user)	Registration	USN-1	As a user, I can register for the web-page 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 web-page	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the web-page through Email	I can register & access the dashboard with Email Login	Low	Sprint-2
		USN-4	As a user, I can register for the web-page through Gmail	I can register & access the dashboard with Gmail Login	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the web-page by entering my username/email & password	I can login into the application with Gmail Login	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
	Dashboard	USN-5	As a user, I can log access the Dashboard by logging into the web-page	I can access the Dashboard by logging into the web-page.	High	Sprint-1
Customer Care Executive	Login	USN-1	As a Customer Care Executive, I can log into the application by entering my Executive email id & password	I can login into the application with Gmail Login	High	Sprint-1
	Dashboard	USN-1	As a Customer Care Executive, I can access the Dashboard of the application by logging into the application	I can access the Dashboard by logging into the application	High	Sprint-1
	Service	USN-1	As a Customer Care Executive, I can access the Customer service page of the application by logging and accessing the page	I can access the Service page by logging & accessing the page	High	Sprint-1
Administrator	Login	USN-1	As a Administrator, I can log into the application by entering my Administer email id & password	I can login into the application with Gmail Login	High	Sprint-1
	Dashboard	USN-1	As a Administrator, I can access the Dashboard of the application by logging into the application	I can access the Dashboard by logging into the application	High	Sprint-1
	Administration & Service	USN-1	As administrator, I can access Administration & service page of the application by logging & accessing the page	I can access the Administration & Service page by logging and accessing the page	High	Sprint-1

6 PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint 1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	JASMINE MARY P DURGADEVI K KEERTHIKA E MANJU T
Sprint 1	Login	USN-2	As a user, I can log into the application by entering email or Username & password which I had registered	1	High	JASMINE MARY P DURGADEVI K KEERTHIKA E MANJU T
Sprint 2	Dashboard	USN-3	As a user, I can explore the web page to find the latest fashion and details about those products	2	Medium	JASMINE MARY P DURGADEVI K KEERTHIKA E MANJU T
Sprint 3	Assistant	USN-4	As a user, I can use the personal assistant offered by the website to make my job easier	2	High	JASMINE MARY P DURGADEVI K KEERTHIKA E MANJU T
Sprint 4	Request	USN-5	If any problem occurred or any doubts you can contact Customer care executive	1	Medium	JASMINE MARY P DURGADEVI K KEERTHIKA E MANJU T

6.2 Sprint Delivery Schedule

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

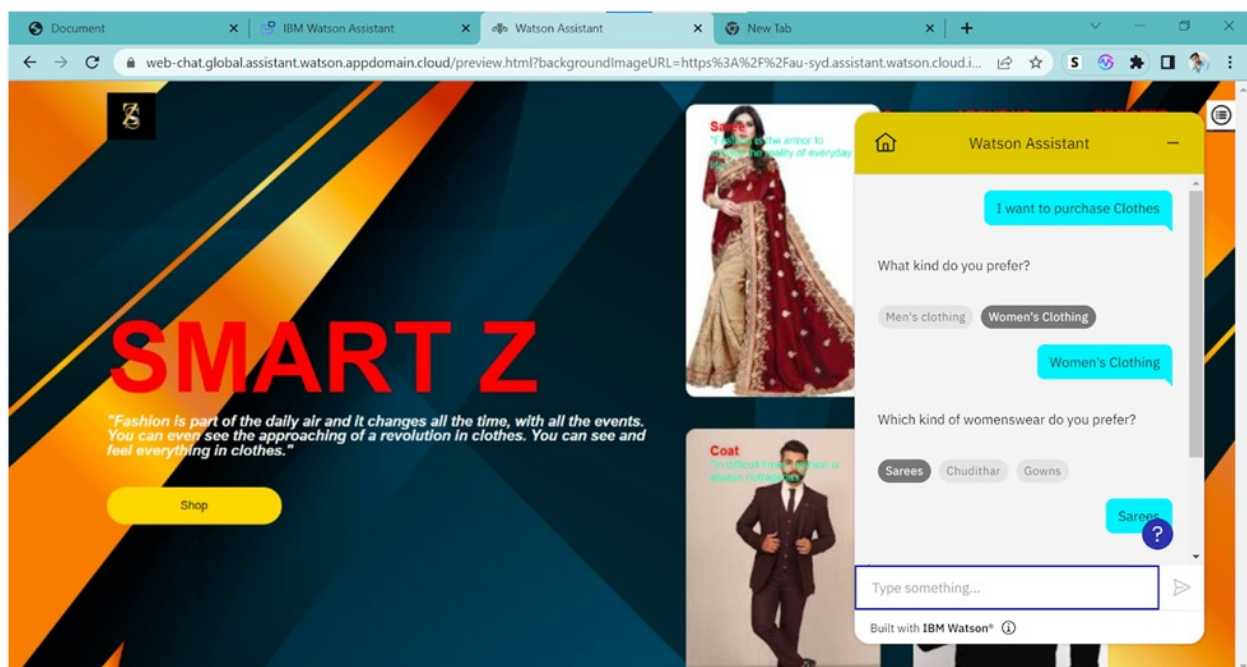
6.3 Reports from JIRA



7. CODING & SOLUTIONING

7.1 Feature 1

The first feature of our smart fashion Recommendor is the Chatbot (watson assistant).



Chatbot Script:

<script>

```

window.watsonAssistantChatOptions = {
  integrationID: "FYwLaniNZ2_RedlT0aedLBl3uKnML6bG9VWsmajNpxD
", // The ID of this integration.
  region: "jp-tok", // The region your integration is hosted in.
  serviceInstanceID: "cd93e7bc-8deb-4aec-aa9e-
5247a38c7653", // 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>

```

Chatbot link:

[https://web-
chat.global.assistant.watson.appdomain.cloud/preview.html
?backgroundImageUrl=https%3A%2F%2Fau-](https://web-chat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImageUrl=https%3A%2F%2Fau-)

syd.assistant.watson.cloud.ibm.com/public/images/Fupx-b32ad6df-bcd2-476f-847a-5a4e4e3d9cf9%3A%3Aa739c027-4bf5-4d40-b073-555f31719f8b&integrationID=234b5887-00dc-4ca7-9046-b96a97434afb®ion=au-syd&serviceInstanceID=b32ad6df-bcd2-476f-847a-5a4e4e3d9cf9

Feature code 2

The second feature code of our project is dashboard.
dashboard.html

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
  <meta charset="UTF-8">
  <!--<title> Responsive Admin Dashboard | CodingLab </title>-->
  <link rel="stylesheet" href="style3.css">
  <!-- Boxicons CDN Link -->
  <link href='https://unpkg.com/boxicons@2.0.7/css/boxicons.min.css'
rel='stylesheet'>
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
  <div class="sidebar">
    <div class="logo-details">
      <i class='bx bxl-c-plus-plus'></i>
      <span class="logo_name">SMART Z</span>
    </div>
    <ul class="nav-links">
      <li>
        <a href="#" class="active">
          <i class='bx bx-grid-alt' ></i>
```

```
    <span class="links_name">Dashboard</span>
  </a>
</li>
<li>
  <a href="#">
    <i class='bx bx-box' ></i>
<span class="links_name">Product</span>
    </a>
</li>
<li>
  <a href="#">
    <i class='bx bx-list-ul' ></i>
    <span class="links_name">Order list</span>
  </a>
</li>
<li>
  <a href="#">
    <i class='bx bx-pie-chart-alt-2' ></i>
    <span class="links_name">Analytics</span>
  </a>
</li>
<li>
  <a href="#">
    <i class='bx bx-coin-stack' ></i>
    <span class="links_name">Stock</span>
  </a>
</li>
<li>
  <a href="#">
    <i class='bx bx-book-alt' ></i>
    <span class="links_name">Total order</span>
  </a>
</li>
```

```
</li>
<li>
  <a href="#">
    <i class='bx bx-user' ></i>
    <span class="links_name">Team</span>
  </a>
</li>
<li>
  <a href="#">
    <i class='bx bx-message' ></i>
    <span class="links_name">Messages</span>
  </a>
</li>
<li>
  <a href="#">
    <i class='bx bx-heart' ></i>
    <span class="links_name">Favorites</span>
  </a>
</li>
<li>
  <a href="#">
    <i class='bx bx-cog' ></i>
    <span class="links_name">Setting</span>
  </a>
</li>
<li class="log_out">
  <a href="#">
    <i class='bx bx-log-out'></i>
    <span class="links_name">Log out</span>
  </a>
</li>
</ul>
```



```
</div>
<section class="home-section">
  <nav>
    <div class="sidebar-button">
      <i class='bx bx-menu sidebarBtn'></i>
      <span class="dashboard">Dashboard</span>
    </div>
    <div class="search-box">
      <input type="text" placeholder="Search...">
      <i class='bx bx-search' ></i>
    </div>
    <div class="profile-details">
      <!---->
      <span class="admin_name">MAJAKADU</span>
      <i class='bx bx-chevron-down' ></i>
    </div>
  </nav>

  <div class="home-content">
    <div class="overview-boxes">
      <div class="box">
        <div class="right-side">
          <div class="box-topic">Total Order</div>
          <div class="number">40,876</div>
          <div class="indicator">
            <i class='bx bx-up-arrow-alt'></i>
            <span class="text">Up from yesterday</span>
          </div>
        </div>
        <i class='bx bx-cart-alt cart'></i>
      </div>
      <div class="box">
```

```
<div class="right-side">
  <div class="box-topic">Total Sales</div>
  <div class="number">38,876</div>
  <div class="indicator">
    <i class='bx bx-up-arrow-alt'></i>
    <span class="text">Up from yesterday</span>
  </div>
</div>
<i class='bx bxs-cart-add cart two' ></i>
</div>
<div class="box">
  <div class="right-side">
    <div class="box-topic">Total Profit</div>
    <div class="number">$12,876</div>
    <div class="indicator">
      <i class='bx bx-up-arrow-alt'></i>
      <span class="text">Up from yesterday</span>
    </div>
  </div>
  <i class='bx bx-cart cart three' ></i>
</div>
<div class="box">
  <div class="right-side">
    <div class="box-topic">Total Return</div>
    <div class="number">11,086</div>
    <div class="indicator">
      <i class='bx bx-down-arrow-alt down'></i>
      <span class="text">Down From Today</span>
    </div>
  </div>
  <i class='bx bxs-cart-download cart four' ></i>
</div>
```

</div>

<div class="sales-boxes">

<div class="recent-sales box">

<div class="title">Recent Sales</div>

<div class="sales-details">

<ul class="details">

<li class="topic">Date

02 Jan 2021

02 Jan 2021

02 Jan 2021

02 Jan 2021

02 Jan 2021

02 Jan 2021

02 Jan 2021

<ul class="details">

<li class="topic">Customer

Alex Doe

David Mart

Roe Parter

Diana Penty

Martin Paw

Doe Alex

Aiana Lexa

Rexel Mags

Tiana Loths

<ul class="details">

<li class="topic">Sales

Delivered

Pending

```

<li><a href="#">Returned</a></li>
<li><a href="#">Delivered</a></li>
<li><a href="#">Pending</a></li>
<li><a href="#">Returned</a></li>
<li><a href="#">Delivered</a></li>
<li><a href="#">Pending</a></li>
<li><a href="#">Delivered</a></li>
</ul>
<ul class="details">
  <li class="topic">Total</li>
  <li><a href="#">$204.98</a></li>
  <li><a href="#">$24.55</a></li>
  <li><a href="#">$25.88</a></li>
  <li><a href="#">$170.66</a></li>
  <li><a href="#">$56.56</a></li>
  <li><a href="#">$44.95</a></li>
  <li><a href="#">$67.33</a></li>
  <li><a href="#">$23.53</a></li>
  <li><a href="#">$46.52</a></li>
</ul>
</div>
<div class="button">
  <a href="#">See All</a>
</div>
</div>
<div class="top-sales box">
  <div class="title">Top Seling Product</div>
  <ul class="top-sales-details">
    <li>
      <a href="#">
        <!---->
        <span class="product">Vuitton Sunglasses</span>

```

```
</a>
<span class="price">$1107</span>
</li>
<li>
  <a href="#">
    <!---->
    <span class="product">Hourglass Jeans </span>
  </a>
  <span class="price">$1567</span>
</li>
<li>
  <a href="#">
    <!-- -->
    <span class="product">Nike Sport Shoe</span>
  </a>
  <span class="price">$1234</span>
</li>
<li>
  <a href="#">
    <!---->
    <span class="product">Hermes Silk Scarves.</span>
  </a>
  <span class="price">$2312</span>
</li>
<li>
  <a href="#">
    <!---->
    <span class="product">Succi Ladies Bag</span>
  </a>
  <span class="price">$1456</span>
</li>
<li>
```

```

    <a href="#">
      <!---->
      <span class="product">Gucci Womens's Bags</span>
    </a>
    <span class="price">$2345</span>
  </li>
  <a href="#">
    <!---->
    <span class="product">Addidas Running Shoe</span>
  </a>
  <span class="price">$2345</span>
</li>
</li>
  <a href="#">
    <!---->
    <span class="product">Bilack Wear's Shirt</span>
  </a>
  <span class="price">$1245</span>
</li>
</ul>
</div>
</div>
</div>
</section>

```

```

<script>
  let sidebar = document.querySelector(".sidebar");
  let sidebarBtn = document.querySelector(".sidebarBtn");
  sidebarBtn.onclick = function() {
    sidebar.classList.toggle("active");
    if(sidebar.classList.contains("active")){
      sidebarBtn.classList.replace("bx-menu" ,"bx-menu-alt-right");
    }
  }

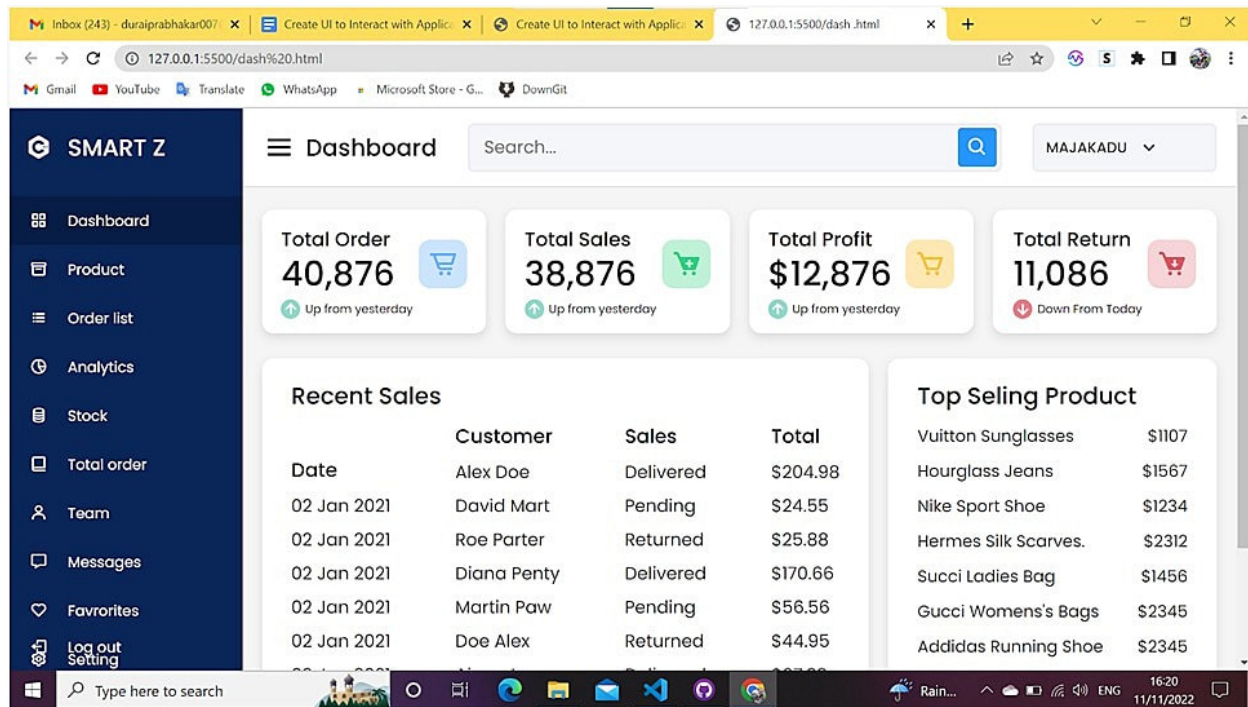
```

```

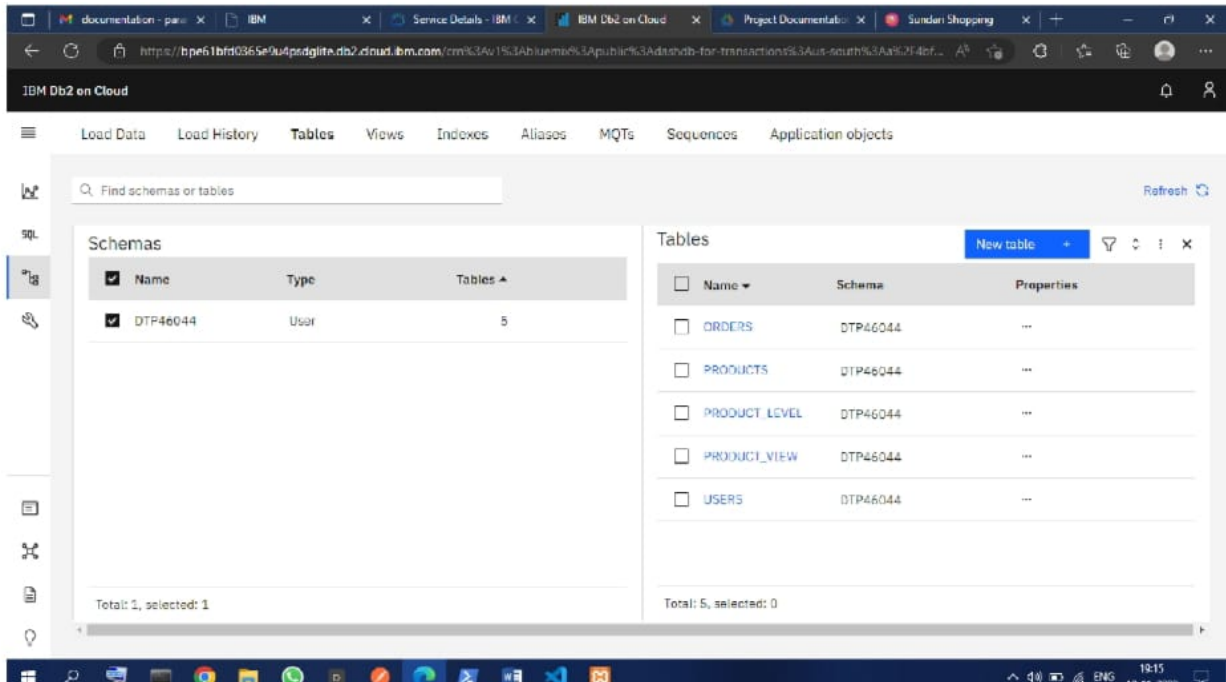
}else
    sidebarBtn.classList.replace("bx-menu-alt-right", "bx-menu");
}
</script>

</body>
</html>

```



7.3 Database Schema



8 TESTING

8.1 Test Cases

Project Planning 2

TEST CASES

Test case ID	Feature Type	Component	Test Scenario	Steps To Execute	Test Data	Expected Result	Actual Result	Status	Comments	TC for Automation (Y/N)	BUG ID	Executed By
LoginPage_TC_001	Functional	Home Page	Verify user is able to see the Login/Signup page when user clicked on Sign up button	1.Enter URL and click go 2.Scroll down 3.Verify login/Signup popup displayed or not	http://109.51.2.104 https://115.90.106	Login/Signup popup should display	Working as expected	PASS	Successful			Manju T Jasmine Mary
LoginPage_TC_002	UI	Home Page	Verify the UI elements in Sign in/Signup popup	1.Enter URL and click go 2.Click on Signup button for User 3.Verify login/Signup popup with below UI elements: a.id text box b.password text box c.Login button d.New customer? Create account link e.Last password? Recovery password link	http://109.51.2.104 https://115.90.106	Application should show below UI elements: a. email text box b. password text box c. Login button d. New customer? Create account link	Working as expected	PASS	Successful			Manju T
LoginPage_TC_003	Functional	Home page	Verify user is able to log into application with Valid credentials	1.Enter URL and click go 2.Click on My Account dropdown button 3.Enter Valid ID in ID text box 4.Enter valid password in password text box 5.Click on login button	ID: 5342 password: Testing123	User should navigate to user account homepage	Working as expected	PASS	Successful			Manju T Jasmine Mary

Test Case (SPRINT 01) ³

LoginPage_TC_004	Functional	Login page	Verify user is able to log into application with Invalid credentials	1.Enter the url and click go 2.Click on My Account button 3.Enter Invalid ID in ID text box 4.Enter valid password in password text box 5.Click on login button	ID: 5342 password: Testing123	Application should show 'Incorrect email or password' validation message.	Working as expected	PASS	Successful			Manju T
LoginPage_TC_005	Functional	Login page	Verify user is able to log into application with Invalid credentials	1.Enter URL and click go 2.Click on My Account button 3.Enter Valid ID in ID text box 4.Enter Invalid password in password text box 5.Click on login button	ID: 5342 password: Testing12367868 6786876876	Application should show 'Incorrect email or password' validation message.	Working as expected	PASS	Successful			Manju T
LoginPage_TC_006	Functional	Login page	Verify user is able to log into application with Invalid credentials	1.Enter URL and click go 2.Click on My Account dropdown button 3.Enter Invalid ID in ID text box 4.Enter Invalid password in password text box 5.Click on login button	ID: 5342 password: Testing123	Application should show 'Incorrect email or password' validation message.	Working as expected	PASS	Successful			Manju T

Test Case (SPRINT 01) ⁴

LoginPage_TC_007	Functional	Login page	Verify User is able to log into application with Valid Credentials	1.Enter URL and click go 2.Click on My Account dropdown button 3.Enter Invalid ID in ID text box 4.Enter Invalid password in password text box 5.Click on login button	ID: 5434 password: Testing123	Application should show 'correct email or password' validation message.	Working as expected	PASS	Successful			Manju T Jasmine Mary
------------------	------------	------------	--	--	----------------------------------	---	---------------------	------	------------	--	--	-------------------------

Test Case (SPRINT 01) ⁴

LoginPage_TC_007	Functional	Login page	Verify User is able to log into application with Valid Credentials	1.Enter URL and click go 2.Click on My Account dropdown button 3.Enter Invalid ID in ID text box 4.Enter Invalid password in password text box 5.Click on login button	ID: 5434 password: Testing123	Application should show 'correct email or password' validation message.	Working as expected	PASS	Successful			Manju T Jasmine Mary
------------------	------------	------------	--	--	----------------------------------	---	---------------------	------	------------	--	--	-------------------------

LoginPage_TC_008	Functional	Login page for ADMIN	Verify User is able to log into application with Valid Credentials	1.Enter URL and click go 2.Click on My Account dropdown button 3.Enter Valid ID in ID text box 4.Enter valid password in password text box 5.Click on login button	ID: 1111 password: 3678	Application should show 'correct email or password' validation message.	Working as expected	PASS	Successful			Manju T Jasmine Mary
LoginPage_TC_009	UI	ADMIN PAGE	Verify all the Customer database is visible	1.Enter URL and click go 2.Click on My Account dropdown button 3.Enter Invalid ID in ID text box 4.Enter Invalid password in password text box 5.Click on login button	http://169.51.204 http://169.51.204	Customer database is visible	Working as expected	PASS	Successful			Manju T

Test Case (SPRINT 01) ⁵

LoginPage_TC_010	Functional	USER REGISTER	Verify Id sent to customer_email address	1.Enter URL and click go 1.Register the account by giving credentials 2. Click on button Submit	http://169.51.201.212:30106	Email sent successfully	Working as expected	PASS	Successful				Manju T
LoginPage_TC_011	Functional	AGENT REGISTER	Verify AGENT is able to log into application with Valid Credentials	1.Enter URL(http://169.51.201.212:30106) and click go 2.Click on My Account dropdown button 3.Enter Invalid ID in ID text box 4.Enter Invalid password in password text box 5.Click on login button	http://169.51.201.212:30106	ID sent successfully	Application should show a 'correct email or password' validation message.	PASS	Successful				Manju T

LoginPage_TC_012	Functional	Login page for ADMIN	Verify User is able to log into application with Invalid Credentials	1.Enter URL and click go 2.Click on account button 3.Enter Invalid ID in ID text box 4.Enter Invalid password in password text box 5.Click on login button	ID: 1111 password: 5678	Application should show 'incorrect ID or password' validation message.	Working as expected	PASS	Successful				Manju T P.Jasmine Mary
LoginPage_TC_013	UI	Home page for Agent	Verify user is able to see the agent home page when user finish on submitting Credentials	1.Enter URL and click go 2. To the Agent Login page and submit Your Credentials	ID: 1111 password: 5678	AGENT Home Page popup should display	Working as expected	PASS	Successful				Manju T

				3.Enter Invalid ID in ID text box 4.Enter Invalid password in password text box 5.Click on login button		ID or password validation message.							
LoginPage_TC_013	UI	Home page for Agent	Verify user is able to see the agent home page when user finish on submitting Credentials	1.Enter URL and click go 2. To the Agent Login page and submit Your Credentials	ID: 1111 password: 5678	AGENT Home Page popup should display	Working as expected	PASS	Successful				Manju T

Test Case (SPRINT 01) ⁶

LoginPage_TC_014	UI	Home page for USER	Verify user is able to see the User home page when user finish on submitting Credentials	1.Enter UR and click go 2. To the User Login page and submit Your Credentials	http://169.51.201.212:30106	USER Home Page popup should display	Working as expected	PASS	Successful				Manju T P.Jasmine Mary
LoginPage_TC_015	UI	Home page for ADMIN	Verify user is able to see the ADMIN home page when user finish on submitting Credentials	1.Enter URL and click go 2. To the User Login page and submit Your Credentials	http://169.51.201.212:30106	ADMIN Home Page popup should display	Working as expected	PASS	Successful				Manju T
LoginPage_TC_016	Functional	AGENT PAGE	On delete button the user Credentials will be detected	1.Enter URL and click go 2. To the Admin Page and detect the User Credentials	http://169.51.201.212:30106	ADMIN Home Page popup should display	Working as expected	PASS	Successful				Manju T

8.2 User Acceptance Testing

1. Purpose of Document

The purpose of this document is to briefly explain the test coverage and open issues of the [CUSTOMER CARE REGISTRY] project at the time of the release to User Acceptance Testing (UAT).

2. Defect Analysis

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

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	10	3	1	2	17
Duplicate	1	0	3	0	4
External	2	3	0	1	6
Fixed	11	2	4	20	40
Not Reproduced	0	0	1	0	1
Skipped	0	0	1	1	2
Won't Fix	0	5	2	1	8

Totals 24 13 12 25 78

3. Test Case Analysis

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

--

Section	Total Cases	Not Tested	Fail	Pass
Print Engine	10	0	0	10
Client Application	50	0	0	50
Security	1	0	0	1

Outsource Shipping	3	0	0	3
Exception Reporting	8	0	0	8
Final Report Output	4	0	0	4

9.RESULTS

9.1 Performance Metrics

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

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

End Of Test Report							
S.No	Project Overview	NFT Test approach	NFR - Met	Test Outcome	GO/NO-GO decision	Recommendations	Approval/SignOff
1	Smart Fashion Recommender Application	Manual		Worked as we expected		Use Laptop / desktop Mode	Vlgarameshwaran

10.ADVANTAGES & DISADVANTAGES

Advantages:

Drive Traffic

Through personalized email messages and targeted blasts, a recommendation engine can encourage elevated amounts of traffic to your site, thus increasing the opportunity to scoop up more data to further enrich a customer profile.

Deliver Relevant Content

By analyzing the customer's current site usage and previous browsing history, a recommendation engine can deliver relevant product recommendations as he or she shops based on said profile. The data is collected in real time so the software can react as shopping habits change on the fly.

Engage Shoppers

Shoppers become more engaged when personalized product recommendations are made to them across the customer journey. Through individualized product recs, customers are able to delve more deeply into your product line without having to dive into (and very likely get lost in) an

ecommerce rabbit hole.

Kibo Research shows that 52% of retailers are leveraging AI-driven personalization to deliver personalized product recommendations to their customers.

Convert Shoppers to Customers

Converting shoppers into customers takes a special touch. Personalized interactions from a recommendation engine show your customer that he or she is valued as an individual, in turn, engendering long-term loyalty.

Increase Average Order Value

Average order values typically go up when an engine is leveraged to display personalized options as shoppers are more willing to spend generously on items they thoroughly covet.

Increase Number of Items per Order

In addition to the average order value rising, the number of items per order also typically rises when an engine is employed. When the customer is shown options that meet his or her interest, they are far more likely to add items to their active purchase cart.

Control Merchandising and Inventory Rules

A recommendation engine can add your marketing and inventory control directives to a customer's profile to feature products that are on clearance or overstocked so as to avoid unnecessary shopping friction and tone deafness.

Reduce Workload and Overhead

The volume of data required to create a personal shopping experience for each customer is usually far too large to be managed manually. Using an engine automates this process, easing the workload for your IT staff

Disadvantages:

- a) Significant investments required
- b) Too many choices
- c) The complex onboarding process
- d) Lack of data analytics capability
- e) The 'cold start' problem
- f) Inability to capture changes in user behavior. ...
- d) Privacy concerns.

11. CONCLUSION

Recommendation systems have the potential to explore new opportunities for retail-ers 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 state-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 brandspecific 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

Online selling and purchasing offer innumerable benefits to both sellers and buyers, and these advantages are also the reasons for the rising scope of eCommerceWell, to put it bluntly, the scope of e-business in the near future looks to be ever-increasing and growing, because the trend has really caught on here. E-commerce giant Amazon is keen to conquer the Indian market and has already invested a greatdeal, especially with its 49% stake in the Future Group.Indian online retail giant Flipkart has already opened a few offline stores and plans more stores in smaller cities. They plan to combine online and offline stores to maximize their selling potential.Google and Tata Trust have launched a joint program 'Saathi' to increase internet and mobile penetration among rural women.The Government of India is also making a huge push for Ecommerce by providing numerous sops to startups,cyberparks, and so on through its Digital India program.As of now, there are close to 20,000 E-commerce companies in India, with many more expected to join the bandwagon every month.

13.APPENDIX

Source Code

Sprint1.py

```
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re
app = Flask(__name__)
```

```

app.secret_key = 'a'
conn =
ibm_db.connect("DATABASE=bludb;HOSTNAME=9938aec0-8105-433e-
8bf9-0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.clo
ud;PORT=32459;Security=SSL;SSLServerCertificate=DigiCertGlobalRootCA.
crt;UID=dpk79343;PWD=29Jm7EbzOubtoerk", "", "")
@app.route('/')
def homer():
return render_template('index.html')
@app.route('/Login', methods=['GET', 'POST'])
def login():
global userid
msg = "
if request.method == 'POST':
username = request.form['username']
password = request.form['password']
sql = "SELECT * FROM users WHERE username =? AND password=?"
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt, 1, username)
ibm_db.bind_param(stmt, 2, password)
ibm_db.execute(stmt)
account = ibm_db.fetch_assoc(stmt)
print(account)
if account:
session['loggedin'] = True
session['id'] = account['USERNAME']
userid =account["username"]

session['username'] = account['USERNAME']
msg = 'Logged in successfully !'
msg = 'Logged in successfully !'

```



```

return render_template('homepage.html', msg=msg)
else:
msg = 'Incorrect username / password !'
return render_template('index.html', msg=msg)
@app.route('/Register', methods=['GET', 'POST'])
def registet():
msg = "
if request.method == 'POST':
username = request.form['username']
email = request.form['email']
password = request.form['password']
sql = "SELECT * FROM users WHERE username =?"
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt, 1, username)
ibm_db.execute(stmt)
account = ibm_db.fetch_assoc(stmt)
print(account)
if account:
msg = 'Account already exists !'
elif not re.match(r'^@]+@[^@]+\.[^@]+' , email):
msg = 'Invalid email address !'
elif not re.match(r'[A-Za-z0-9]+' , username):
msg = 'name must contain only characters and numbers !'
else:
insert_sql = "INSERT INTO users VALUES (?, ?, ?)"
prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prepare_stmt, 1, username)
ibm_db.bind_param(prepare_stmt, 2, email)
ibm_db.bind_param(prepare_stmt, 3, password)
ibm_db.execute(prepare_stmt)
msg = 'You have successfully registered !'
elif request.method == 'POST':msg = 'Please fill out the form !'

```

```
return render_template('reg.html', msg=msg)
@app.route('/Homepage')
def dash():
    return render_template('homepage.html')
@app.route('/apply', methods=['GET', 'POST'])
def apply():
    msg = ""
    if request.method == 'POST':
        username = request.form['username']
        email = request.form['email']
        qualification = request.form['qualification']
        skills = request.form['skills']
        jobs = request.form['s']
        sql = "SELECT * FROM users WHERE username =?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt, 1, username)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            msg = 'there is only 1 job position! for you'
            return render_template('apply.html', msg=msg)
        insert_sql = "INSERT INTO job VALUES (?, ?, ?, ?, ?)"
        prep_stmt = ibm_db.prepare(conn, insert_sql)
        ibm_db.bind_param(prepare_stmt, 1, username)
        ibm_db.bind_param(prepare_stmt, 2, email)
        ibm_db.bind_param(prepare_stmt, 3, qualification)
        ibm_db.bind_param(prepare_stmt, 4, skills)
        ibm_db.bind_param(prepare_stmt, 5, jobs)
        ibm_db.execute(prepare_stmt)
        msg = 'You have successfully applied for job !'
        session['loggedin'] = True
```

```

TEXT = "Hello,a new application for job position" + jobs+"is requested"
elif request.method == 'POST':msg = 'Please fill out the form !'
return render_template('apply.html', msg=msg)
@app.route('/display')
def display():
print(session["username"], session['id'])
cursor = mysql.connection.cursor()
cursor.execute('SELECT * FROM job WHERE userid = % s', (session['id'],))
account = cursor.fetchone()
print("accountdisplay", account)
return render_template('display.html', account=account)
@app.route('/logout')
def logout():
session.pop('loggedin', None)
session.pop('id', None)
session.pop('username', None)
return render_template('home.html')
if __name__ == '__main__':
app.run(host='0.0.0.0')
</html>

```

Reg.html

```

<html>
<head>
<title> SFRA </title>
</head>
<style>
*{
margin: 0;
padding: 0;
font-family:"Century Gothic", CenturyGothic, AppleGothic, sans-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:"Century Gothic", CenturyGothic, AppleGothic, sans-serif;  
}  
.navbar{  
width: 100%;  
height: 75px;  
margin: auto;  
}  
.icon{  
width: 200px;  
float: left;height: 70px;  
}  
.logo{  
color:rgb(244, 27, 11);  
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: 14px;
}
ul li a{
text-decoration: none;
color:yellowgreen;
font-weight: bold;
transition: 0.4s ease-in-out;
}
ul li a:hover{
color:red;
}
.search{
width: 330px;
float: left;
margin-left: 270px;
}
.srch{
width: 200px;
height: 40px;
background: transparent;
border: 1px solidred;
margin-top: 13px;
color:yellowgreen;
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:red ;
border: 2px solidred;
margin-top: 13px;color:yellow;
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:yellowgreen;
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:red;
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:white;
}
.content span{
color:red;
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:red;  
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 solidred;  
border-top: none;  
border-right: none;  
border-left: none;
```



```
color:white;
font-size: 15px;
letter-spacing: 1px;
margin-top: 30px;
}
.form input:focus{
outline: none;
}
::placeholder{
color:white;
}
.btnn{
width: 240px;
height: 40px;
background:red;
border: none;
margin-top: 30px;
font-size: 18px;
border-radius: 10px;
cursor: pointer;
color:white;
transition: 0.4s ease;
}
.btnn:hover{
background:white;
color:red;
}
.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:white;
}
.liw{
padding-top: 15px;
padding-bottom: 10px;
text-align: center;
}
</style>
<body>
<div class="main">
<div class="navbar">
<div class="icon">
<h2 class="logo">Smart Z</h2>
</div>
<div class="menu">
<ul>
<li><a href="#">HOME</a></li>
<li><a href="#">ABOUT</a></li>
</ul>
</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>SMART 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>
<p class="link">Already have an account<br>
<a href="/Login">Log in</a> here</a></p>
</form>
</div>
</div>
</div>
</body>
</html>
```

Index.html

```
<!DOCTYPE html>
<html>
<head>
<title> SFRA </title>
</head>
<style>
*{
margin: 0;
padding: 0;
font-family:"Century Gothic", CenturyGothic, AppleGothic, sans-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:"Century Gothic", CenturyGothic, AppleGothic, sans-serif;
}
.navbar{
width: 100%;
height: 75px;
margin: auto;
}
.icon{
width: 200px;
float: left;
height: 70px;}
.logo{
color:rgb(244, 27, 11);
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: 14px;
}
ul li a{
text-decoration: none;
color:yellowgreen;
font-weight: bold;
transition: 0.4s ease-in-out;
}
ul li a:hover{
color:red;
}
.search{
width: 330px;
float: left;
margin-left: 270px;
}
.srch{
width: 200px;
height: 40px;
background: transparent;
border: 1px solidred;
margin-top: 13px;
color:yellowgreen;
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:red ;
border: 2px solidred;
margin-top: 13px;
color:yellow;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:yellowgreen;
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:red;
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:white;
}
.content span{
color:red;
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:re;
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 solidred;
border-top: none;
border-right: none;
border-left: none;
color:white;
font-size: 15px;
letter-spacing: 1px;
```



```
margin-top: 30px;
}
.form input:focus{
outline: none;
}
::placeholder{
color:white;
}
.btnn{
width: 240px;
height: 40px;
background:red;
border: none;
margin-top: 30px;
font-size: 18px;
border-radius: 10px;
cursor: pointer;
color:white;
transition: 0.4s ease;
}
.btnn:hover{
background:white;
color:red;
}
.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:white;
}
.liw{
padding-top: 15px;
padding-bottom: 10px;
text-align: center;
}
</style>
<body>
<div class="main">
<div class="navbar">
<div class="icon">
<h2 class="logo">Smart Z</h2>
</div>
<div class="menu">
<ul>
<li><a href="#">HOME</a></li>
<li><a href="#">ABOUT</a></li>
</ul>
</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>SMART 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>
<p class="link">Already have an account<br>
<a href="/Login">Log in</a> here</a></p>
</form>
</div>
</div>
</div>
</body>
</html>
```

Homepage.html

```
<html>
<head>
<title> SFRA </title>
</head>
<style>
*{
margin: 0;
padding: 0;
font-family:"Century Gothic", CenturyGothic, AppleGothic, sans-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: "Century Gothic", CenturyGothic, AppleGothic, sans-serif;
}
.navbar{
width: 100%;
height: 75px;
margin: auto;
}
.icon{
width: 200px;
float: left;
height: 70px;
}.logo{
color: red;
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: 14px;
}
ul li a{
text-decoration: none;
color:yellowgreen;
font-weight: bold;
transition: 0.4s ease-in-out;
}
ul li a:hover{
color: yellowgreen;
}
.search{
width: 330px;
float: left;
margin-left: 270px;
}
.srch{
width: 200px;
height: 40px;
background: transparent;
border: 1px solid red;
margin-top: 13px;
color: yellow;
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:red ;  
border: 2px solid yellowgreen;  
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: yellowgreen;  
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: greenyellow;
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: yellowgreen;
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:yellowgreen;
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 yellowgreen;
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: red;
border: none;
margin-top: 30px;
font-size: 18px;
border-radius: 10px;
cursor: pointer;
color: #fff;
transition: 0.4s ease;
}
.btnn:hover{
background: #fff;
color: yellowgreen;
}
.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: yellowgreen;
}
.liw{
padding-top: 15px;
padding-bottom: 10px;
text-align: center;
}
</style>
<body>
<div class="main">
<div class="navbar">
<div class="icon">
<h2 class="logo">Smart Z</h2>
</div>
<div class="menu">
<ul>
<li><a href="#">HOME</a></li>
<li><a href="#">ABOUT</a></li>
</ul>
</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>SMART LOGIN</h2>
<form action="/Login" method="post">
<input type="text" name="username" placeholder="Enter Username Here">
```

```
<input type="password" name="password" placeholder="Enter Password
here">
<button type="submit" class="btnn"><a href="#">Login</a></button>
<p class="link">Don't have an account<br>
<a href="/Register">Sign up </a> here</a></p>
</form>
</div>
</div>
</div>
</body>
</html>
<html>
<head>
<title> SFRA </title>
</head>
<style>
*{
margin: 0;
padding: 0;
font-family:"Century Gothic", CenturyGothic, AppleGothic, sans-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:"Century Gothic", CenturyGothic, AppleGothic, sans-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: 14px;  
}
```

```
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{
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: #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;  
}  
.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">Smart Z</h2>
</div>
<div class="menu">
<ul>
<li><a href="#">HOME</a></li>
<li><a href="#">ABOUT</a></li>
```

```

</ul>
</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>
</body>
</html>SPRINT - 2
<!DOCTYPE html>
<!-- Designed by CodingLab | www.youtube.com/codinglabyt -->
<html lang="en" dir="ltr">
<head>
<meta charset="UTF-8">
<!--<title> Responsiive Admin Dashboard | CodingLab </title>-->
<link rel="stylesheet" href="style3.css">
<!-- Boxicons CDN Link -->
<link href='https://unpkg.com/boxicons@2.0.7/css/boxicons.min.css'
rel='stylesheet'><meta name="viewport" content="width=device-width,
initial-scale=1.0">
</head>
<body>
<div class="sidebar">
<div class="logo-details">
<i class='bx bxl-c-plus-plus'></i>
<span class="logo_name">SMART Z</span>
</div>
<ul class="nav-links">
<li>
<a href="#" class="active">
<i class='bx bx-grid-alt' ></i>

```

```
<span class="links_name">Dashboard</span>
</a>
</li>
<li>
<a href="#">
<i class='bx bx-box' ></i>
<span class="links_name">Product</span>
</a>
</li>
<li>
<a href="#">
<i class='bx bx-list-ul' ></i>
<span class="links_name">Order list</span>
</a>
</li>
<li>
<a href="#">
<i class='bx bx-pie-chart-alt-2' ></i>
<span class="links_name">Analytics</span>
</a>
</li>
<li>
<a href="#">
<i class='bx bx-coin-stack' ></i>
<span class="links_name">Stock</span>
</a>
</li>
<li>
<a href="#">
<i class='bx bx-book-alt' ></i>
<span class="links_name">Total order</span>
</a>
```

```
</li>
<li>
<a href="#">
<i class='bx bx-user' ></i>
<span class="links_name">Team</span>
</a>
</li>
<li>
<a href="#">
<i class='bx bx-message' ></i>
<span class="links_name">Messages</span>
</a>
</li>
<li>
<a href="#">
<i class='bx bx-heart' ></i>
<span class="links_name">Favororites</span>
</a>
</li>
<li>
<a href="#">
<i class='bx bx-cog' ></i>
<span class="links_name">Setting</span>
</a>
</li>
<li class="log_out">
<a href="#">
<i class='bx bx-log-out'></i><span class="links_name">Log out</span>
</a>
</li>
</ul>
</div>
```

```
<section class="home-section">
<nav>
<div class="sidebar-button">
<i class='bx bx-menu sidebarBtn'></i>
<span class="dashboard">Dashboard</span>
</div>
<div class="search-box">
<input type="text" placeholder="Search...">
<i class='bx bx-search' ></i>
</div>
<div class="profile-details">
<!---->
<span class="admin_name">MAJAKADU</span>
<i class='bx bx-chevron-down' ></i>
</div>
</nav>
<div class="home-content">
<div class="overview-boxes">
<div class="box">
<div class="right-side">
<div class="box-topic">Total Order</div>
<div class="number">40,876</div>
<div class="indicator">
<i class='bx bx-up-arrow-alt'></i>
<span class="text">Up from yesterday</span>
</div>
</div>
<i class='bx bx-cart-alt cart'></i>
</div>
<div class="box">
<div class="right-side">
<div class="box-topic">Total Sales</div>
```

```
<div class="number">38,876</div>
<div class="indicator">
<i class='bx bx-up-arrow-alt'></i>
<span class="text">Up from yesterday</span>
</div>
</div>
<i class='bx bxs-cart-add cart two' ></i>
</div>
<div class="box">
<div class="right-side">
<div class="box-topic">Total Profit</div>
<div class="number">$12,876</div>
<div class="indicator">
<i class='bx bx-up-arrow-alt'></i>
<span class="text">Up from yesterday</span>
</div>
</div>
<i class='bx bx-cart cart three' ></i>
</div>
<div class="box">
<div class="right-side">
<div class="box-topic">Total Return</div>
<div class="number">11,086</div>
<div class="indicator">
<i class='bx bx-down-arrow-alt down'></i>
<span class="text">Down From Today</span>
</div>
</div>
<i class='bx bxs-cart-download cart four' ></i>
</div>
```

</div>

<div class="sales-boxes">

<div class="recent-sales box"><div class="title">Recent Sales</div>

<div class="sales-details">

<ul class="details">

<li class="topic">Date

02 Jan 2021

02 Jan 2021

02 Jan 2021

02 Jan 2021

02 Jan 2021

02 Jan 2021

02 Jan 2021

<ul class="details">

<li class="topic">Customer

Alex Doe

David Mart

Roe Parter

Diana Penty

Martin Paw

Doe Alex

Aiana Lexa

Rexel Mags

Tiana Loths

<ul class="details">

<li class="topic">Sales

Delivered


```
<li><a href="#">Pending</a></li>
<li><a href="#">Returned</a></li>
<li><a href="#">Delivered</a></li>
<li><a href="#">Pending</a></li>
<li><a href="#">Returned</a></li>
<li><a href="#">Delivered</a></li>
<li><a href="#">Pending</a></li>
<li><a href="#">Delivered</a></li>
</ul>
<ul class="details">
<li class="topic">Total</li>
<li><a href="#">$204.98</a></li>
<li><a href="#">$24.55</a></li>
<li><a href="#">$25.88</a></li>
<li><a href="#">$170.66</a></li>
<li><a href="#">$56.56</a></li>
<li><a href="#">$44.95</a></li>
<li><a href="#">$67.33</a></li>
<li><a href="#">$23.53</a></li>
<li><a href="#">$46.52</a></li>
</ul>
</div>
<div class="button">
<a href="#">See All</a>
</div>
</div>
<div class="top-sales box">
<div class="title">Top Seling Product</div>
<ul class="top-sales-details">
<li>
<a href="#">
<!---->
```

```
<span class="product">Vuitton Sunglasses</span>
</a>
<span class="price">$1107</span>
</li>
<li>
<a href="#">
<!---->
<span class="product">Hourglass Jeans </span>
</a>
<span class="price">$1567</span>
</li>
<li>
<a href="#"><!-- -->
<span class="product">Nike Sport Shoe</span>
</a>
<span class="price">$1234</span>
</li>
<li>
<a href="#">
<!---->
<span class="product">Hermes Silk Scarves.</span>
</a>
<span class="price">$2312</span>
</li>
<li>
<a href="#">
<!---->
<span class="product">Succi Ladies Bag</span>
</a>
<span class="price">$1456</span>
</li>
<li>
```

```
<a href="#">
<!---->
<span class="product">Gucci Womens's Bags</span>
</a>
<span class="price">$2345</span>
</li>
<a href="#">
<!---->
<span class="product">Addidas Running Shoe</span>
</a>
<span class="price">$2345</span>
</li>
<li>
<a href="#">
<!---->
<span class="product">Bilack Wear's Shirt</span>
</a>
<span class="price">$1245</span>
</li>
</ul>
</div>
</div>
</div>
</section>
<script>
let sidebar = document.querySelector(".sidebar");
let sidebarBtn = document.querySelector(".sidebarBtn");
sidebarBtn.onclick = function() {
  sidebar.classList.toggle("active");
  if(sidebar.classList.contains("active")){
    sidebarBtn.classList.replace("bx-menu" ,"bx-menu-alt-right");
  }else
```

```
sidebarBtn.classList.replace("bx-menu-alt-right", "bx-menu");
}
</script>
</body>
</html>
```

Sprint 2

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
<meta charset="UTF-8">
<!--<title> Responsive Admin Dashboard | CodingLab </title-->
<link rel="stylesheet" href="style3.css">
<!-- Boxicons CDN Link -->
<link href='https://unpkg.com/boxicons@2.0.7/css/boxicons.min.css'
rel='stylesheet'>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
<div class="sidebar">
<div class="logo-details">
<i class='bx bxl-c-plus-plus'></i>
<span class="logo_name">SMART Z</span>
</div>
<ul class="nav-links">
<li>
<a href="#" class="active">
<i class='bx bx-grid-alt' ></i>
<span class="links_name">Dashboard</span>
```

```
</a>
</li>
<li>
<a href="#">
<i class='bx bx-box' ></i>
<span class="links_name">Product</span>
</a>
</li>
<li>
<a href="#">
<i class='bx bx-list-ul' ></i><span class="links_name">Order list</span>
</a>
</li>
<li>
<a href="#">
<i class='bx bx-pie-chart-alt-2' ></i>
<span class="links_name">Analytics</span>
</a>
</li>
<li>
<a href="#">
<i class='bx bx-coin-stack' ></i>
<span class="links_name">Stock</span>
</a>
</li>
<li>
<a href="#">
<i class='bx bx-book-alt' ></i>
<span class="links_name">Total order</span>
</a>
</li>
<li>
```

```
<a href="#">
<i class='bx bx-user' ></i>
<span class="links_name">Team</span>
</a>
</li>
<li>
<a href="#">
<i class='bx bx-message' ></i>
<span class="links_name">Messages</span>
</a>
</li>
<li>
<a href="#">
<i class='bx bx-heart' ></i>
<span class="links_name">Favororites</span>
</a>
</li>
<li>
<a href="#">
<i class='bx bx-cog' ></i>
<span class="links_name">Setting</span>
</a>
</li>
<li class="log_out">
<a href="#">
<i class='bx bx-log-out'></i>
<span class="links_name">Log out</span>
</a>
</li>
</ul>
</div>
<section class="home-section">
```

```
<nav>
<div class="sidebar-button">
<i class='bx bx-menu sidebarBtn'></i>
<span class="dashboard">Dashboard</span>
</div>
<div class="search-box">
<input type="text" placeholder="Search...">
<i class='bx bx-search' ></i>
</div>
<div class="profile-details">
<!---->
<span class="admin_name">MAJAKADU</span>
<i class='bx bx-chevron-down' ></i>
</div>
</nav>
<div class="home-content">
<div class="overview-boxes"><div class="box">
<div class="right-side">
<div class="box-topic">Total Order</div>
<div class="number">40,876</div>
<div class="indicator">
<i class='bx bx-up-arrow-alt'></i>
<span class="text">Up from yesterday</span>
</div>
</div>
<i class='bx bx-cart-alt cart'></i>
</div>
<div class="box">
<div class="right-side">
<div class="box-topic">Total Sales</div>
<div class="number">38,876</div>
<div class="indicator">
```

```
<i class='bx bx-up-arrow-alt'></i>
<span class="text">Up from yesterday</span>
</div>
</div>
<i class='bx bxs-cart-add cart two' ></i>
</div>
<div class="box">
<div class="right-side">
<div class="box-topic">Total Profit</div>
<div class="number">$12,876</div>
<div class="indicator">
<i class='bx bx-up-arrow-alt'></i>
<span class="text">Up from yesterday</span>
</div>
</div>
<i class='bx bx-cart cart three' ></i>
</div>
<div class="box">
<div class="right-side">
<div class="box-topic">Total Return</div>
<div class="number">11,086</div>
<div class="indicator">
<i class='bx bx-down-arrow-alt down'></i>
<span class="text">Down From Today</span>
</div>
</div>
<i class='bx bxs-cart-download cart four' ></i>
</div>
</div>
<div class="sales-boxes">
<div class="recent-sales box">
<div class="title">Recent Sales</div>
```



```
<div class="sales-details">
<ul class="details">
<li class="topic">Date</li>
<li><a href="#">02 Jan 2021</a></li>
<li><a href="#">02 Jan 2021</a></li>
<li><a href="#">02 Jan 2021</a></li>
<li><a href="#">02 Jan 2021</a></li>
<li><a href="#">02 Jan 2021</a></li>
<li><a href="#">02 Jan 2021</a></li>
<li><a href="#">02 Jan 2021</a></li>
</ul>
<ul class="details">
<li class="topic">Customer</li>
<li><a href="#">Alex Doe</a></li>
<li><a href="#">David Mart</a></li>
<li><a href="#">Roe Parter</a></li>
<li><a href="#">Diana Penty</a></li>
<li><a href="#">Martin Paw</a></li>
<li><a href="#">Doe Alex</a></li>
<li><a href="#">Aiana Lexa</a></li>
<li><a href="#">Rexel Mags</a></li>
<li><a href="#">Tiana Loths</a></li>
</ul><ul class="details">
<li class="topic">Sales</li>
<li><a href="#">Delivered</a></li>
<li><a href="#">Pending</a></li>
<li><a href="#">Returned</a></li>
<li><a href="#">Delivered</a></li>
<li><a href="#">Pending</a></li>
<li><a href="#">Returned</a></li>
<li><a href="#">Delivered</a></li>
<li><a href="#">Pending</a></li>
```

```
<li><a href="#">Delivered</a></li>
</ul>
<ul class="details">
<li class="topic">Total</li>
<li><a href="#">$204.98</a></li>
<li><a href="#">$24.55</a></li>
<li><a href="#">$25.88</a></li>
<li><a href="#">$170.66</a></li>
<li><a href="#">$56.56</a></li>
<li><a href="#">$44.95</a></li>
<li><a href="#">$67.33</a></li>
<li><a href="#">$23.53</a></li>
<li><a href="#">$46.52</a></li>
</ul>
</div>
<div class="button">
<a href="#">See All</a>
</div>
</div>
<div class="top-sales box">
<div class="title">Top Seling Product</div>
<ul class="top-sales-details">
<li>
<a href="#">
<!---->
<span class="product">Vuitton Sunglasses</span>
</a>
<span class="price">$1107</span>
</li>
<li>
<a href="#">
<!---->
```

```
<span class="product">Hourglass Jeans </span>
</a>
<span class="price">$1567</span>
</li>
<li>
<a href="#">
<!-- -->
<span class="product">Nike Sport Shoe</span>
</a>
<span class="price">$1234</span>
</li>
<li>
<a href="#">
<!---->
<span class="product">Hermes Silk Scarves.</span>
</a>
<span class="price">$2312</span>
</li>
<li>
<a href="#">
<!---->
<span class="product">Succi Ladies Bag</span>
</a>
<span class="price">$1456</span>
</li>
<li>
<a href="#">
<!---->
<span class="product">Gucci Womens's Bags</span>
</a><span class="price">$2345</span>
</li>
<a href="#">
```

```
<!---->
<span class="product">Addidas Running Shoe</span>
</a>
<span class="price">$2345</span>
</li>
<li>
<a href="#">
<!---->
<span class="product">Bilack Wear's Shirt</span>
</a>
<span class="price">$1245</span>
</li>
</ul>
</div>
</div>
</div>
</section>
<script>
let sidebar = document.querySelector(".sidebar");
let sidebarBtn = document.querySelector(".sidebarBtn");
sidebarBtn.onclick = function() {
  sidebar.classList.toggle("active");
  if(sidebar.classList.contains("active")){
    sidebarBtn.classList.replace("bx-menu" ,"bx-menu-alt-right");
  }else
    sidebarBtn.classList.replace("bx-menu-alt-right", "bx-menu");
  }
</script>
</body>
</html>
```

Sprint-3

Chatbot Script:

```
<script>
window.watsonAssistantChatOptions = {
integrationID: "FYwLaniNZ2_RedIT0aedLBI3uKnML6bG9VWismaOJNpxD
", // The ID of this integration.
region: "jp-tok", // The region your integration is hosted in.
serviceInstanceID: "cd93e7bc-8deb-4aec-aa9e-5247a38c7653", // 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>
```

Chatbot link:

<https://webchat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImageURL=https%3A%2F%2Fausyd.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupx-b32ad6df-bcd2-476f-84785a4e4e3d9cf9%3A%3Aa739c027-4bf5-4d40-b073-555f31719f8b&integrationID=234b5887-00dc-4ca7-9046-b96a97434afb@ion=ausyd&serviceInstanceID=b32ad6df-bcd2-476f-847a-5a4e4e3d9cf9>

Sprint-4

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>
* {
box-sizing: border-box;
}
body{
background-color: grey;
}
h2{
color: red;
font-family: sans-serif;
font-size: xx-large;
}
input[type=text], select, textarea {
width: 100%;
padding: 12px;
border: 1px solid red;
background-color: black;
color: white;
border-radius: 4px;
resize: vertical;
}
input[type=email], select, textarea {
width: 100%;
padding: 12px;
border: 1px solid red;
background-color: black;
```

```
color: white;
border-radius: 4px;
resize: vertical;
}
label {
padding: 12px 12px 12px 0;
display: inline-block;
}
input[type=submit] {
background-color: red;color: white;
padding: 12px 20px;
border: none;
border-radius: 4px;
cursor: pointer;
float: right;
}
input[type=submit]:hover {
background-color: yellowgreen;
}
.container {
border-radius: 5px;
background-color: grey;
color:yellowgreen;
padding: 20px;
}
.col-25 {
float: left;
width: 25%;
margin-top: 6px;
font-size: larger;
font-family:sans-serif;
font-weight: bold;
```

```

}
.col-75 {
float: left;
width: 75%;
margin-top: 6px;
color: grey;
}
/* Clear floats after the columns */
.row:after {
content: "";
display: table;
clear: both;
}
/* Responsive layout - when the screen is less than 600px wide, make the
two columns stack on top of each other instead
of next to each other */
</style>
</head>
<body>
<h2>FEED BACK FORM</h2>
<div class="container">
<form>
<div class="row">
<div class="col-25">
<label for="fname">First Name</label>
</div>
<div class="col-75">
<input type="text" id="fname" name="firstname" placeholder="Your name..">
</div>
</div>
<div class="row">
<div class="col-25">

```



```
<label for="lname">Last Name</label>
</div>
<div class="col-75">
<input type="text" id="lname" name="lastname" placeholder="Your last
name..">
</div>
</div>
<div class="row">
<div class="col-25">
<label for="email">Mail Id</label>
</div>
<div class="col-75">
<input type="email" id="email" name="mailid" placeholder="Your mail
id.."></div>
</div>
<div class="row">
<div class="col-25">
<label for="country">Country</label>
</div>
<div class="col-75">
<select id="country" name="country">
<option value="none">Select Country</option>
<option value="australia">Australia</option>
<option value="canada">Canada</option>
<option value="usa">USA</option>
<option value="russia">Russia</option>
<option value="japan">Japan</option>
<option value="india">India</option>
<option value="china">China</option>
</select>
</div>
</div>
```

```
<div class="row">
<div class="col-25">
<label for="feed_back">Feed Back</label>
</div>
<div class="col-75">
<textarea id="subject" name="subject" placeholder="Write something.."
style="height:200px"></textarea>
</div>
</div>
<div class="row">
<input type="submit" value="Submit">
</div>
</form>
</div>
</body>
</html>
```

GitHub link :<https://github.com/IBM-EPBL/IBM-Project-16630-1659619119>

Demo link :<https://youtu.be/Vvowr4ZfTfg>