

**PANIMALAR INSTITUTE
OF TECHNOLOGY CHENNAI – 600 123**

**PROJECT
SMART FASHION RECOMMENDER APPLICATION**

DONE BY

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1.INTRODUCTION

1.1 Project Overview :

E-commerce and fashion apps are expanding in popularity right now. Additionally, it has certain issues with locating the desired goods for the user in the web apps. It can be very helpful to have a chatbot that comprehends the algorithm of a certain application. We are integrating a chatbot like this into a web application, which is supplied with the algorithmic knowledge of the application. It entirely assists the user from identifying their needs to processing payments and starting deliveries. By gathering basic user information and behaviours, it functions as an advanced filter search that may give the user what they want with the use of visual and naming representation. Additionally, there are two main UI interactions in the application: one is the user panel, and the other Purpose :

Contrary to other sectors, fashion advice shouldn't be exclusively focused on a customer's preferences and past behaviour. The complexity of developing a fashion suggestion system is increased by numerous external elements, many of which are emotional. The general public's perceptions must be taken into consideration, along with fashion, clothing, and trend guidelines.

2.LITERATURE SURVEY

2.1 Existing problem :

In traditional e-commerce websites, visitors must utilise a search box to find the goods they need or scroll through all of the results of their search. It will require a lot of user time, and many user trials will be flawed as a result. This strategy will result in poor product marketing. It will leave a terrible impression on the user when they return later to buy the product. Despite the fact that the product is excellent, the user When a product has a different name, this type of search will generate mismatched results. Consider a hypothetical Amazon search for oranges. It will occasionally display orange fruit or an orange tint. Deep learning and artificial intelligence have recently

been merged with fashion systems. Although these methods offer rich recommendations, they are typically prone to product mismatch. Even The recommender system suggests products based on the user's preferences, but it is missing a chat bot that enhances user experience by communicating with people. To discover the right product in the majority of fashion systems, the user must search through a variety of products. Users are required to filter products using the extensive variety of categories available.

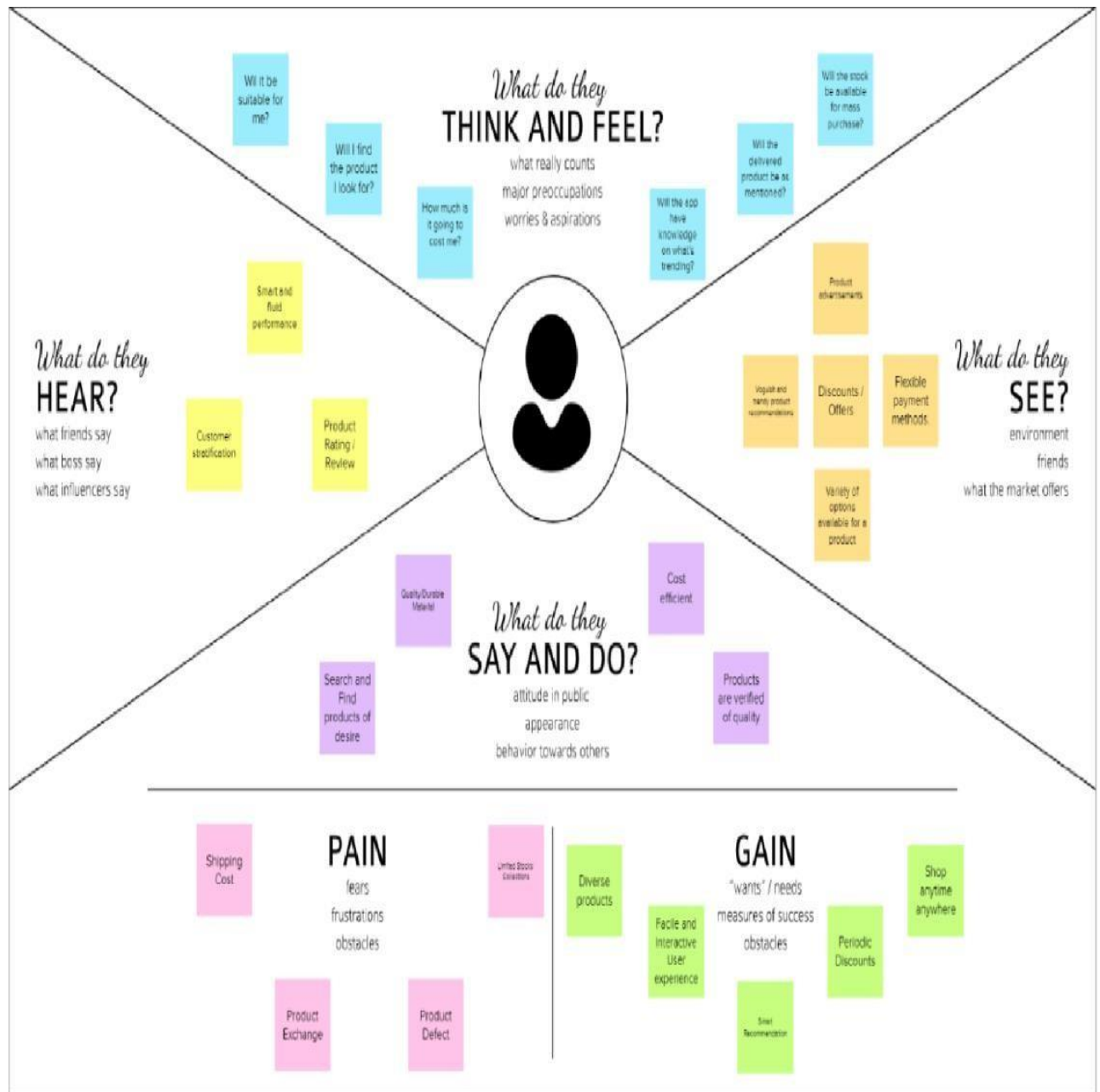
2.2 Problem Statement Definition:

In order to browse, add to basket, and place orders on e-commerce websites, customers must search for products and move between screens. The smart fashion recommender programme makes use of a chat bot to communicate with users, learn about their preferences, and provide appropriate product recommendations. The users of this programme are assigned to one of two predetermined roles. Customer and administrator are the roles. According to the designated role, the application requires that the user be forwarded to the proper dashboard. The quantity of various products and admins should be tracked

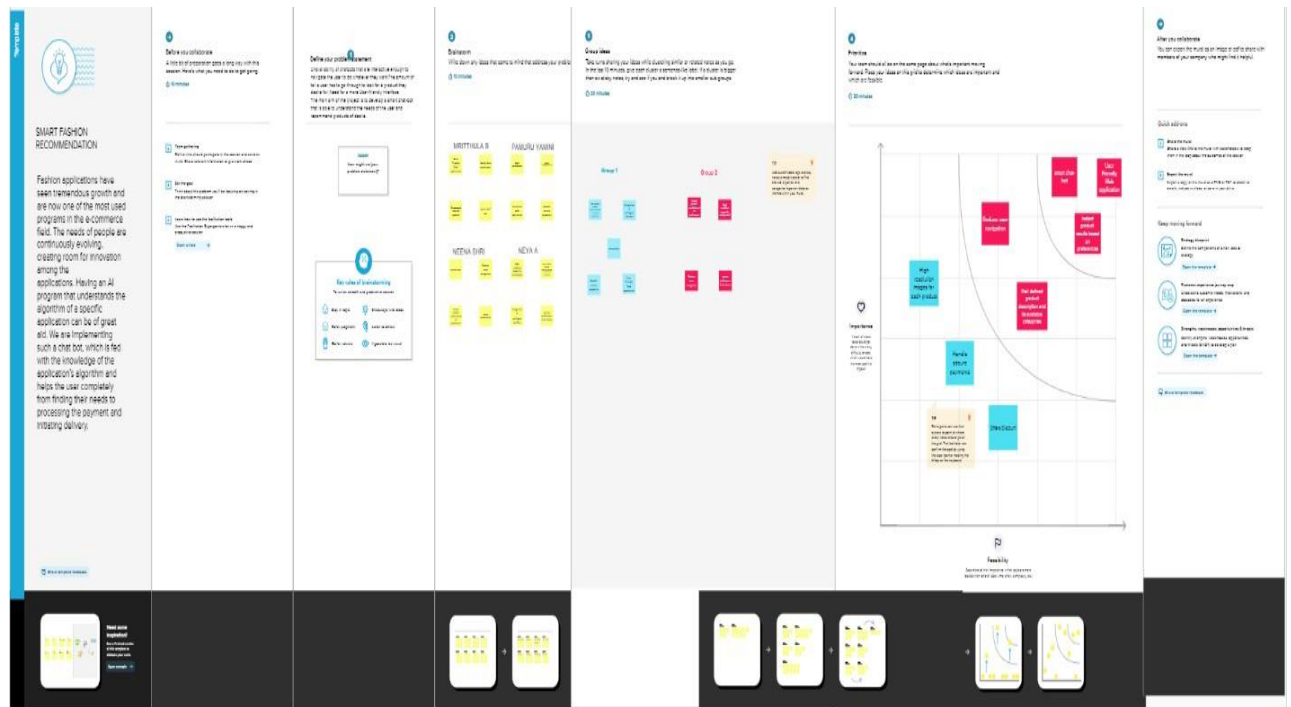
should be tasked with developing products that fall into the right categories. Through chat bot interaction, the user should be able to express their preferences. On order confirmation or failure, the user must be notified. At the conclusion of order confirmation, the chatbot needs to get user input. The major goals of this programme are to improve user interaction and minimise page-scrolling in order to locate the right products.

3.IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas



3.2 Ideation & Brainstorming



3.3 Proposed Solution

S.No.	Parameter	Description
1.	<p>Problem Statement (Problem to be solved)</p>	<p>In normal Online Shopping:</p> <ul style="list-style-type: none"> • Human mistake can happen in many different ways. • Negative customer feedback • There isn't a good enough way to properly direct customers. • Poor sales. • Poor customer relationships

2.		Idea / Solution description	<ul style="list-style-type: none"> • Lessen the possibility of human error. • Gather frank and insightful client feedback. • Lead customers in the direction of a purchase. • Converts leads to sales (aka, boost conversion). develop more effective customer interactions
3.		Novelty / Uniqueness	<ul style="list-style-type: none"> • Raise the percentage of calls and chats that are successfully handled by using the most recent BERT-based natural language understanding (NLU) models, which can correctly and effectively discern intent and context in use cases with more complex use cases..
4.		Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> • From little to major complaints, how complaints are handled may be one of the most important components in gaining client satisfaction. In order to maintain the customer's satisfaction, complaints must be handled as quickly as feasible.
5.		Business Model(Revenue Model)	<ul style="list-style-type: none"> • This application can be created at a low price while still delivering high performance.

6.		Scalability of the Solution	This can be made into a scalable product by using sensors, transmitting the data over wireless sensor networks, and analysing the data. Using chat bots, operations are carried out on the cloud.
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3.4 Problem Solution fit

Define CS, fit into CL	1. CUSTOMER SEGMENT(S) CS The one who is looking for a fashion product to buy via online shopping platforms.	6. CUSTOMER LIMITATIONS CL <ul style="list-style-type: none"> ✓ Navigation among screens ✓ Longer time to purchase ✓ Lack of time ✓ Unsatisfiable search results 	5. AVAILABLE SOLUTIONS AS <ul style="list-style-type: none"> ✓ User friendly interface ✓ Search bar option available, but this may or may not give appropriate results ✓ Enabling notification to notify in time of offers, but it needs to be done manually 	Explore AS, differentiate
	2. PROBLEMS / PAINS PR <ul style="list-style-type: none"> ✓ Navigating between various screens ✓ Numerous search results ✓ Emotional aspects ✓ Lots of unsolved queries 	9. PROBLEM ROOT / CAUSE RC <ul style="list-style-type: none"> ✓ Absence of AI application ✓ Insufficient data 	7. BEHAVIOR BE <ul style="list-style-type: none"> ✓ Move towards offline shopping ✓ Look for a better shopping site ✓ Won't promote online shopping to neighbours or friends or relatives ✓ Their choice may change 	Focus on PR, tap into BE, understand RC
Identify strong TR & EM	3. TRIGGERS TO ACT TR <ul style="list-style-type: none"> ✓ All time customer service ✓ Customized search results ✓ Cost and time efficient ✓ Shopping in hands 	10. YOUR SOLUTION SL <ul style="list-style-type: none"> ✓ Online shopping based on customer choice without any search using chatbot ✓ 24/7 customer service ✓ Instant notification about offers and promotions ✓ Secure payment mode ✓ Collect customer feedback and rectify their queries at instant 	8. CHANNELS of BEHAVIOR CH ONLINE <ul style="list-style-type: none"> ✓ Websites ✓ Social media 	Extract online & offline CH of BE
	4. EMOTIONS EM BEFORE : Frustrated, anxiety, decision fatigue AFTER : Contented		OFFLINE <ul style="list-style-type: none"> ✓ Shops 	

4. REQUIREMENT ANALYSIS

2.3 Functional requirement

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement(Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Registration	Registration requires some user information and can be completed using a cell number or Gmail.
FR-2	Login	Only the user id and password provided during registration are used to log in.
FR-3	Delivery confirmation	confirmation through phone and email

FR-4	Assistance	Bot is integrated with the application to make the usability simple
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2.4 Non-Functional requirements

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

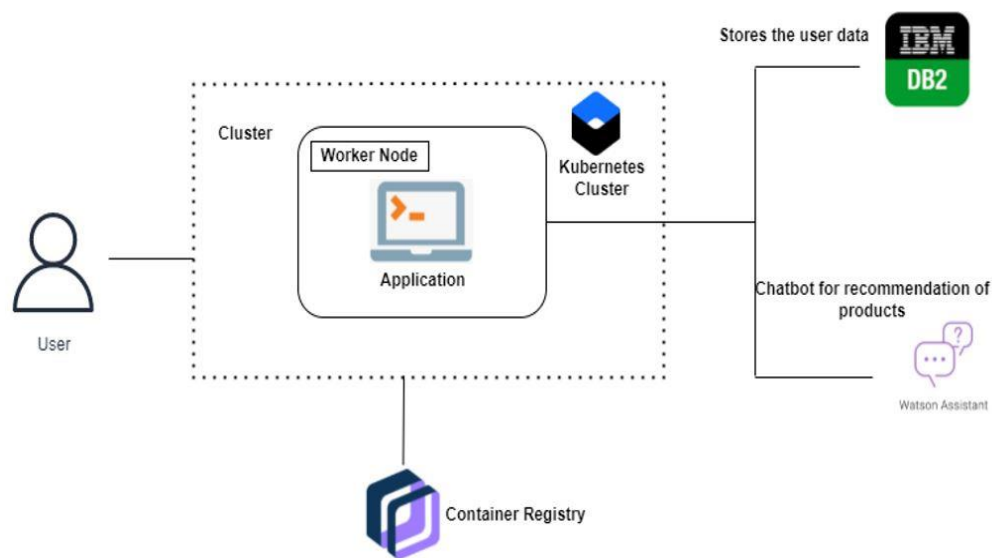
NFR-4	Performance	The system shall be able to handle multiple requests at any given point in time and generate an appropriate response.
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5.PROJECT DESIGN

5.1 Data Flow Diagrams:

FR No.	Non-Functional Requirement	Description
NF R-1	Usability	a chatbot and user-friendly UI for effective usability
NF R-2	Security	A protected connection Requests and answers should be transmitted via HTTPS.
NF R-3	Reliability	To prevent programme termination, the system should manage expected as well as unexpected failures and exceptions.

5.2 Solution & Technical Architecture:



6 PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation & Sprint Delivery Schedule & Reports from JIRA

Project Planning Phase						
Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)						
Date	22 October 2022					
Team ID	PNT2022TMID25780					
Project Name	Project - Smart Fashion Recommender Application					
Maximum Marks	8 Marks					

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

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	S.Ashwin T.R.Harish P.John Clinton B.Arun Raj
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	S.Ashwin T.R.Harish P.John Clinton B.Arun Raj
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	1	High	S.Ashwin T.R.Harish P.John Clinton B.Arun Raj
Sprint-2	Dashboard	USN-4	Browse the products that are offered on the website. The customer can interact with chat bot directly about the products rather than navigate through various screens.	3	High	S.Ashwin T.R.Harish P.John Clinton B.Arun Raj

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Live chat-Chat Bot	USN-4	As a user, my recommendations can be made by the chat bot depending on my interest	2	High	S.Ashwin T.R.Harish P.John Clinton B.Arun Raj
Sprint-3	Tracking the order	USN-5	As a user, If I order any product, chat bot notifies it.	2	High	S.Ashwin T.R.Harish P.John Clinton B.Arun Raj
Sprint-4	Flow of orders and check out	USN-6	As a user, I can track my order and collect information about shipping	2	High	S.Ashwin T.R.Harish P.John Clinton B.Arun Raj
Sprint-4	Return the product if not satisfied	USN-7	As a user, If I am not satisfy with the product, I can return in 7 days from the date of delivery	2	Medium	S.Ashwin T.R.Harish P.John Clinton B.Arun Raj

Sprint Delivery Plan

Date	22 October 2022
Team ID	PNT2022TMID25780
Project Name	Project - Smart Fashion Recommender Application
Maximum Marks	8 Marks

Project Tracker, Velocity & Burndown Chart: (4 Marks)

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	18	6 Days	24 Oct 2022	29 Oct 2022	18	29 Oct 2022
Sprint-2	18	6 Days	31 Oct 2022	05 Nov 2022	18	05 Nov 2022
Sprint-3	18	6 Days	07 Nov 2022	12 Nov 2022	18	12 Nov 2022
Sprint-4	18	6 Days	14 Nov 2022	19 Nov 2022	18	19 Nov 2022

Velocity:

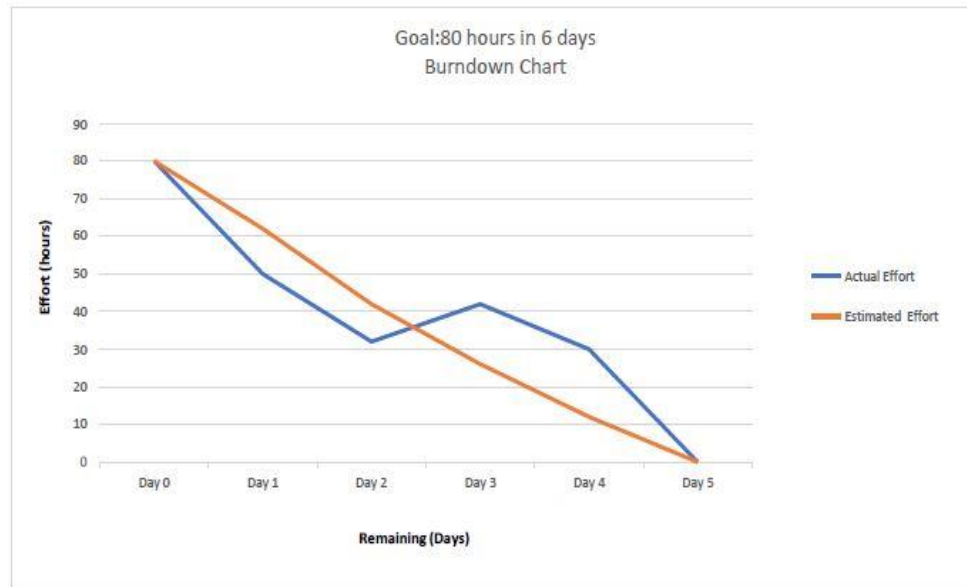
Imagine we have a 6-day sprint duration, and the velocity of the team is 18(points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \text{Sprint Duration} / \text{Velocity}$$

$$= 18/6 = 3$$

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.



7 TESTING

7.1 Test Cases

TEST CASE ID	Test Description	Input	Excepted result	Remarks
Test case – 1	Enter a field	User detail	Successfully registered	Pass
Test case – 2	Enter username and password	User details	Redirect to main page	Pass
Test case – 3	Username and password are empty	User details	Username and password are still empty	Fail

8 RESULTS



We are The Ingenious Minds

Please login to your account

Email

Password

[Log in](#) [Forgot password?](#)

Don't have an account? [Create new](#)

Smart Fashion Recommender Application

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.

Sign up

Your Name

Your Email

Password

☐ I agree all statements in [Terms of service](#)

[Register](#)





[Shirts](#) [Pants](#) [Watches](#) [Shoes](#) [Sound](#) [About](#)



Hi! I'm a virtual assistant. How can I help you today?

Example: See how I can help

Type something...

Built with IBM Watson® ⓘ



[Shirts](#) [Pants](#) [Watches](#) [Shoes](#) [Sound](#) [About](#)

 [My account](#) 





Belt



luctus quis et est. Integer pretium purus

₹999



Sunglasses



luctus quis et est. Integer pretium purus

₹799



Shirt



luctus quis et est. Integer pretium purus

₹400




Red Shoes






luctus quis et est. Integer pretium purus


₹999






ShirtsPantsWatchesShoesSoundAbout







Cart



Shirt
\$400
- 1 +




Red Shoes
\$999
- 1 +



Sunglasses
\$799
- 1 +

Check out



9 ADVANTAGES & DISADVANTAGES

1. CUSTOMER SATISFACTION:

2. Customers frequently look at the products that were recommended to them during their previous browsing. mostly because they believe bigger prospects for quality products will present themselves. It would be beneficial if their browsing history from the prior session was available when they left the site and returned. This might aid and direct their e-Commerce endeavours in a similar manner as knowledgeable assistants at brick and mortar establishments. Client retention is a result of this kind of customer pleasure.

3. REVENUE:

There is less of a learning curve for online shoppers today because to years of research, experimentation, and implementation, mostly led by Amazon. Additionally, a wide range of algorithms have been investigated, put into practise, and shown to yield higher conversion rates than non-personalized product recommendations.

DISADVANTAGES:

1. LACK OF DATA

- 10 The fact that recommender systems require a lot of data in order to create recommendations is perhaps their largest problem. It's no accident that businesses like Google, Amazon, Netflix, and Last.fm, which have access to vast amounts of customer data, are those most associated with providing outstanding suggestions. A decent recommender system requires item data (from a catalogue or other form), user data (behavioural events), and then the magic algorithm does its thing, as shown in the slide below from Strands' talk at Recked. The likelihood of receiving useful recommendations increases with the amount of item and user data a recommender system has at its disposal.

11 CONCLUSION

The major method of communication, interest collection, and product

recommendation used by the smart fashion recommender system is a chat bot. A chat bot's interaction with users is intended to enhance the user experience. Users do not have to go through different pages to find the right product. The system is set up to reduce the amount of time users spend looking for the right goods. Future improvements to the chatbot will allow for the addition of items to the shopping cart, the display of the contents of the cart, order history, and payment via the chatbot..

12 APPENDIX

Source Code

```
<html lang="sv">
<head>
<meta charset="UTF-8" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<link type="text/css" href="images/css/main.css" rel="stylesheet" />
<link
rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.1/css/all.min.css"
integrity="sha512-
+4zCK9k+qNFUR5X+cKL9EIR+ZOhtIloNl9GIKS57V1MyNsYpYcUrUeQc9vNfzsWfV28IaLL3i96P9sdNyeRssA=="
crossorigin="anonymous"
/>
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.10.1/font/bootstrap-icons.css">
<script src="/images/JS/jquery-3.5.1.min.js"></script>
<script src="/images/JS/multislider.min.js"></script>
<title>Demo</title>
</head>
<body>
<!--Navbar-->
<nav>
<!--Navbar has two part the top one and the bottom one-->
<!--Here is top one and in this part I put logo, my account part, and the shopping cart-->
<div class="navbar-top">
<div>
<button id="menuButton"><i class="fas fa-bars"></i></button>
<!--Logo-->
<a href="mainpage">

</a>
</div>
<div>
<!--My account part-->
<div class="account">
<a href="index.html">
<button class="account-btn">
<i class="fas fa-user-alt"></i>
</button>
<span class="account-text">My account</span>
</a>
<!--When we click the btnShowAccountInfo this section will be displayed-->
</div>
<!--Shopping cart-->
<div class="shopping-cart">
<div class="sum-prices">
<!--Shopping cart logo-->
<i
class="fas fa-shopping-cart shoppingCartButton"
></i>
<!--The total prices of products in the shopping cart -->
<h6 id="sum-prices"></h6>
</div>
</div>
</div>
</div>
<!-- Navbar bottom part -->
<!-- Here I put the links to the other pages or nav links -->
<div class="navbar" id="navbar">
<div class="links">
<ul>
<li class="nav-links">
<a href="mobil.html" class="link">Shirts</a>
</li>
<li class="nav-links">
<a href="mobil.html" class="link">Pants</a>
</li>
<li class="nav-links">
<a href="mobil.html" class="link">Watches</a>
</li>
<li class="nav-links">
<a href="mobil.html" class="link">Shoes</a>
</li>
<li class="nav-links">
```

```

<a href="#" class="link">Sound</a>
</li>
<li class="nav-links">
<a href="#" class="link">About</a>
</li>
</ul>
</div>

<!-- The searchbar which will be in the right side of the links -->
<div class="searchbar">
<form action="#">
<input type="search" placeholder="search" />
<i class="fa fa-search" id="search-icon"></i>
</form>
</div>
</div>

<div class="productstOnCart hide">
<div class="overlay"></div>
<div class="top">
<button id="closeButton">
<i class="fas fa-times-circle"></i>
</button>
<h3>Cart</h3>
</div>
<ul id="buyItems">
<h4 class="empty">Your shopping cart is empty</h4>
</ul>
<button class="btn checkout hidden">Check out</button>
</div>
</nav>

<header id="headerSlide">
<div class="MS-content">
<a href="detail_page.html" class="item">

</a>
<a href="#" class="item">

</a>
<a href="detail_page.html" class="item">

</a>
<a href="detail_page.html" class="item">

</a>
<a href="detail_page.html" class="item">


```



```
</div>
<div class="MS-controls">
<button class="MS-right">
<i class="bi bi-chevron-right fa-3x"></i>
</button>
<button class="MS-left">
<i class="bi bi-chevron-left fa-3x"></i>
</button>
</div>
</header>
<main>
<section class="main-section">
<div class="product-container">
<h3>Popular Deals</h3>
<div class="products">
<div class="product">
<div class="product-under">
<figure class="product-image">

<div class="product-over">
<button
class="btn btn-small addToCart"
data-product-id="1"
>
<i class="fas fa-cart-plus"></i>Add
to cart
</button>
<a
href=""
class="btn btn-small"
>More Info</a>
>
</div>
</figure>
<div class="product-summary">
<h4 class="productName">Belt</h4>
<span class="stars"></span>
<p>
luctus quis et est. Integer pretium
purus
</p>
<h6 class="price">
```

₹999

```
</h6>
</div>
</div>
</div>
<div class="product">
  <div class="product-under">
    <figure class="product-image">
      
      <div class="product-over">
        <button
          class="btn btn-small addToCart"
          data-product-id="2"
        >
          <i class="fas fa-cart-plus"></i>Add
            to cart
          </button>
          <a
            href="detail_page.html"
            class="btn btn-small"
          >More Info</a>
        >
      </div>
    </figure>
    <div class="product-summary">
      <h4 class="productName">Sunglasses</h4>
      <span class="stars"></span>
      <p>
        luctus quis et est. Integer pretium
        purus
      </p>
      <h6 class="price">
        ₹<span class="priceValue">799</span>
      </h6>
    </div>
  </div>
</div>
<div class="product">
  <div class="product-under">
    <figure class="product-image">
      
<div class="product-over">
  <button
    class="btn btn-small addToCart"
    data-product-id="3"
  >
    <i class="fas fa-cart-plus"></i>Add
    to cart
  </button>
  <a
    href="detail_page.html"
    class="btn btn-small"
  >More Info</a>
  >
</div>
</figure>
<div class="product-summary">
  <h4 class="productName">Shirt</h4>
  <span class="stars"></span>
  <p>
    luctus quis et est. Integer pretium
    purus
  </p>
  <h6 class="price">
    ₹<span class="priceValue">400</span>
  </h6>
</div>
</div>
</div>
<div class="product">
  <div class="product-under">
    <figure class="product-image">
      
    <div class="product-over">
      <button
        class="btn btn-small addToCart"
        data-product-id="4"
      >
        <i class="fas fa-cart-plus"></i>Add
        to cart
      </button>
      <a
```

```

href="detail_page.html"
class="btn btn-small"
>More Info</a
>
</div>
</figure>
<div class="product-summary">
<h4 class="productName">Red Shoes</h4>
<span class="stars"></span>
<p>
luctus quis et est. Integer pretium
purus
</p>
<h6 class="price">
₹<span class="priceValue">999</span>
</h6>
</div>
</div>
</div>
</div>
</div>
</section>
<section class="main-section">
<div class="pop-mobiles">
<div class="pop-mobiles-1">
<figure>

</figure>
<div>
<h2>New Arrivals</h2>
<p>
Lorem ipsum, dolor sit amet consectetur
adipisicing elit. Veniam eius ut labore
repudiandae.
</p>
<h4>₹2999</h4>
<a href="detail_page.html" class="btn"
>Buy now<i class="fas fa-angle-right"></i>
</a>
</div>
</div>
<h3>Popular mobiles</h3>
<div class="pop-mobiles-2">

```

```
<ul class="products">
```

```
<li class="product">
```

```
<div class="product-under">
```

```
<figure class="product-image">

<div class="product-over">
<button
class="btn btn-small addToCart"
data-product-id="5"
>
<i class="fas fa-cart-plus"></i>
>Add to cart
</button>
<a
href="detail_page.html"
class="btn btn-small"
>More Info</a>
>
</div>
</figure>
<div class="product-summary">
<h4 class="productName">Jeans</h4>
<span class="stars"></span>
<h4 class="price">
₹<span class="priceValue"
>499</span>
>
</h4>
</div>
</div>
</li>
<li class="product">
<div class="product-under">
<figure class="product-image">

<div class="product-over">
<button
class="btn btn-small addToCart"
data-product-id="6"
>
```



```
<i class="fas fa-cart-plus"></i>
>Add to cart
</button>

<a
href="detail_page.html"
class="btn btn-small"
>More Info</a>
>
</div>
</figure>
<div class="product-summary">
<h4 class="productName">Handbag</h4>
<span class="stars"></span>
<h4 class="price">
₹<span class="priceValue">999</span>
</h4>
</div>
</div>
</li>
<li class="product">
<div class="product-under">
<figure class="product-image">

<div class="product-over">
<button
class="btn btn-small addToCart"
data-product-id="7"
>
<i class="fas fa-cart-plus"></i>
>Add to cart
</button>
<a
href="detail_page.html"
class="btn btn-small"
>More Info</a>
>
</div>
</figure>
<div class="product-summary">
```

```
<h4 class="productName">Sunglasses</h4>
<span class="stars"></span>
<h4 class="price">
₹<span class="priceValue">700</span>
</h4>
</div>
</div>
</li>
<li class="product">
<div class="product-under">
<figure class="product-image">

<div class="product-over">
<button
class="btn btn-small addToCart"
data-product-id="8"
>
<i class="fas fa-cart-plus"></i>
>Add to cart
</button>
<a
href="detail_page.html"
class="btn btn-small"
>More Info</a>
>
</div>
</figure>
<div class="product-summary">
<h4 class="productName">Hoodie</h4>
<span class="stars"></span>
<h4 class="price">
₹<span class="priceValue">799</span>
</h4>
</div>
</div>
</li>
<li class="product">
<div class="product-under">
<figure class="product-image">
```

```

<div class="product-over">
<button
class="btn btn-small addToCart"
data-product-id="9"
>
<i class="fas fa-cart-plus"></i>
>Add to cart
</button>
<a
href="detail_page.html"
class="btn btn-small"
>More Info</a
>
</div>
</figure>
<div class="product-summary">
<h4 class="productName">Product 9</h4>
<span class="stars"></span>
<h4 class="price">
₹<span class="priceValue">1499</span>
</h4>
</div>
</div>
</li>
<li class="product">
<div class="product-under">
<figure class="product-image">

<div class="product-over">
<button
class="btn btn-small addToCart"
data-product-id="10"
>
<i class="fas fa-cart-plus"></i>
```

```
>Add to cart
</button>

<a
href="detail_page.html"
class="btn btn-small"
>More Info</a>
>
</div>
</figure>
<div class="product-summary">
<h4 class="productName">Formal Shoes</h4>
<span class="stars"></span>
<h4 class="price">
₹<span class="priceValue">999</span>
</h4>
</div>
</div>
</li>
</ul>
</div>
</div>
</section>
</main>
<footer>
<div class="footer-second">
<div class="footer-column-1">
<h3>News</h3>
<a href="#"></a>
<a href="#">Lorem ipsum</a>
<a href="#">dolor sit</a>
</div>
<div class="footer-column-2">
<h3>Customer service</h3>
<a href="#">Contact</a>
<a href="#">Track your order</a>
<a href="#">terms of purchase</a>
<a href="#">common questions</a>
</div>
<div class="footer-column-3">
<h3>About us</h3>
<a href="#">Who we are</a>
<a href="#">Our Services</a>
<a href="#">Events</a>
<a href="#">Data protection</a>
</div>
```

</div>

```

<ul class="footer-last">
<li>
<p><i class="fab fa-cc-mastercard"></i></p>
</li>
<li>
<p><i class="fab fa-cc-paypal"></i></p>
</li>
<li>
<p><i class="fab fa-cc-visa"></i></p>
</li>
<li>
<p><i class="fab fa-cc-amex"></i></p>
</li>
</ul>
</footer>
<script>
window.watsonAssistantChatOptions = {
integrationID: "f2d16758-7fc2-4dc4-b4e4-33c26ae39d4a", // The ID of this integration.
region: "au-syd", // The region your integration is hosted in.
serviceInstanceID: "e969bc74-4773-409e-b7ff-d0c7af552043", // The ID of your service instance.
onLoad: function(instance) { instance.render(); }
};
setTimeout(function(){
const t=document.createElement('script');
t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/"
(window.watsonAssistantChatOptions.clientVersion || 'latest') + "/WatsonAssistantChatEntry.js";
document.head.appendChild(t);
});
</script>
<script src="/images/JS/script.js"></script>
<script src="/images/JS/shopping-cart.js"></script>
</body>
</html>

```

CSS CODE FOR MAINPAGE

```

@import url("https://fonts.googleapis.com/css2?family=Titillium+Web:wght@200;300;400;700&display=swap");
* {

```

```
margin: 0;
padding: 0;
box-sizing: border-box;
text-decoration: none;
font-family: "Titillium Web", sans-serif;
list-style-type: none;
}
html {
-ms-overflow-style: none; /* IE and Edge */
scrollbar-width: none;
}
html::-webkit-scrollbar {
display: none;
}
body {
display: flex;
flex-direction: column;
-ms-overflow-style: none; /* IE and Edge */
scrollbar-width: none;
}
body::-webkit-scrollbar {
display: none;
}
a {
color: black;
line-height: 1;
}
ul {
list-style-type: none;
}
button:focus {
outline: none;
}
/* clears the 'X' from Internet Explorer */
input[type="search"]::-ms-clear {
display: none;
width: 0;
height: 0;
}
input[type="search"]::-ms-reveal {
```

```
display: none;
width: 0;
height: 0;
}
/* clears the 'X' from Chrome */
input[type="search"]::-webkit-search-decoration,
input[type="search"]::-webkit-search-cancel-button,
input[type="search"]::-webkit-search-results-button,
input[type="search"]::-webkit-search-results-decoration {
display: none;
}
/*Navbar*/
nav {
display: flex;
flex-direction: column;
position: relative;
justify-content: center;
align-items: center;
padding: 10px;
}
/* logo , my account and shopping cart */
nav .navbar-top {
max-width: 1600px;
padding: 10px;
width: 100%;
display: flex;
flex-direction: row;
justify-content: space-between;
}
.navbar-top .logo {
position: absolute;
top: 30px;
left: 100px;
width: 150px;
height: 75px;
}
#menuButton {
width: 45px;
height: 40px;
cursor: pointer;
color: #49989e;
background: transparent;
border: none;
```



```
display: none;
font-size: 1.5rem;
}
#menuButton:focus {
outline: none;
}
#menuButton:hover {
color: #0d3c3f;
}
/* container of my account and shopping cart */
.navbar-top > div {
margin-right: 10px;
display: flex;
flex-direction: row;
align-items: center;
justify-content: center;
height: 60px;
}
/* My account text*/
.account-text {
font-size: 0.9rem;
padding: 10px;
}
.account-btn {
background: none;
border: none;
font-size: 1.4rem;
cursor: pointer;
}
.account-btn:focus {
outline: none;
}
.navbar-top .shopping-cart {
margin-left: 10px;
font-size: 1.4rem;
}
.shopping-cart .sum-prices {
display: flex;
flex-direction: row;
justify-content: center;
align-items: center;
```

```
}  
#sum-prices {  
padding-left: 5px;  
}  
.sum-prices h6 {  
font-size: 0.9rem;  
}  
.shoppingCartButton {  
cursor: pointer;  
}  
.shoppingCartButton:hover,  
.account:hover * {  
color: #0e5e53;  
}  
.productOnCart {  
-ms-overflow-style: none; /* IE and Edge */  
scrollbar-width: none;  
overflow: hidden;  
overflow-y: scroll;  
scroll-behavior: smooth;  
overscroll-behavior: contain;  
background-color: #202020;  
width: 300px;  
height: 500px;  
color: #f0f0f0;  
z-index: 15;  
position: fixed;  
top: 20px;  
right: 0;  
text-align: center;  
animation: fade 1s;  
}  
.productOnCart::-webkit-scrollbar {  
display: none;  
}  
@keyframes fade {  
0% {  
transform: translateX(100%);  
}  
100% {  
transform: none;  
}
```

```
}  
}  
.productstOnCart::-webkit-scrollbar {  
width: 0;  
background: transparent;  
}  
.hide {  
display: none;  
visibility: none;  
}  
.productstOnCart ul {  
text-align: left;  
display: flex;  
flex-direction: column;  
justify-content: center;  
align-items: center;  
}  
.productstOnCart .buyItem {  
border-bottom: #aaa 1px solid;  
width: 90%;  
padding: 10px 0;  
display: flex;  
}  
.productstOnCart img {  
width: 90px;  
}  
.productstOnCart .top {  
display: flex;  
background-color: #616161;  
text-align: center;  
padding: 10px 0;  
position: sticky;  
top: 0;  
width: 100%;  
}  
.top button {  
background: transparent;  
border: none;  
font-size: 1.5rem;  
margin-left: 10px;  
color: #c24c37;
```

```
cursor: pointer;
}
.top button:hover {
color: #e40505;
}
.top h3 {
position: absolute;
left: 50%;
top: 50%;
transform: translate(-50%, -50%);
margin: 0 auto;
}
.producstOnCart > .checkout {
font-size: 0.9rem;
margin: 20px auto;
border: none;
background-color: #297075;
padding: 10px 20px;
color: #eee;
cursor: pointer;
}
.overlay {
overflow: hidden;
display: inline-block;
content: "";
position: fixed;
left: 0;
top: 0;
width: 100vw;
height: 100vh;
z-index: -1;
background: rgba(0, 0, 0, 0.5);
}
.stopScrolling {
height: 100vh;
overflow: hidden;
}
.buyItem h6 {
margin-bottom: 10px;
}
.buyItem button {
```

```
background: transparent;
color: #fff;
cursor: pointer;
font-weight: 900;
font-size: 1.2rem;
padding: 0 6px;
border: none;
}
.buyItem button:active {
color: #96c8cc;
}
.buyItem > div {
padding: 0 20px;
}
.producstOnCart .empty {
justify-self: center;
margin: 150px auto;
}
.price {
color: #dd3333;
margin-top: 10px;
text-align: left;
padding: 5px;
font-size: 1rem;
}
.navbar {
max-width: 1600px;
width: 88vw;
display: flex;
flex-direction: row;
position: relative;
}
.searchbar form {
position: absolute;
right: 17px;
top: 27.5px;
transform: translate(0%, -50%);
transition: all 1s;
width: 40px;
height: 40px;
background: white;
box-sizing: border-box;
```

```
border-radius: 25px;
border: 1px solid #555;
padding: 5px;
}
.searchbar > form input {
position: absolute;
top: 0;
left: 0;
width: 100%;
height: 36px;
line-height: 20px;
outline: 0;
border: 0;
display: none;
font-size: 0.9rem;
border-radius: 20px;
padding: 0 20px;
}
.searchbar form:hover {
width: 300px;
cursor: pointer;
}
.searchbar form:hover input {
display: block;
}
.searchbar input::placeholder {
color: #242424;
font-size: 0.8em;
}
.searchbar > form:hover #search-icon {
background: #07051a;
color: white;
}
#search-icon {
box-sizing: border-box;
padding: 8px;
width: 38px;
height: 38px;
position: absolute;
top: 0;
right: 0;
border-radius: 50%;
```

```
color: #07051a;
text-align: center;
font-size: 1rem;
transition: all 1s;
}
#search-icon:active,
#search-icon:focus {
outline: none;
}
.links {
position: relative;
display: inline-block;
margin: auto;
}
.links ul {
display: flex;
flex-direction: row;
}
ul .nav-links {
cursor: pointer;
color: #333333;
text-align: center;
padding: 15px;
}
.nav-links > a:visited,
.navbar-top > a:visited {
color: #333333;
}
.link {
text-align: center;
font-size: 0.9rem;
}
.nav-links:hover .link {
color: #000000;
text-decoration : underline;
}
.navbarResponsive .links {
margin: 5px;
}
```

```
.navbarResponsive ul {
flex-direction: column;
text-align: left;
}
.navbarResponsive .searchbar form {
position: relative;
margin-left: 50px;
}
.navbarResponsive .nav-links {
text-align: left;
}
.navbarResponsive .nav-links > .link {
z-index: 15;
color: white;
}
#headerSlide {
background-color: #EEEEEE;
height: 55vh;
position: relative;
}
#headerSlide .MS-content {
margin: 0 1%;
white-space: nowrap; /* required */
overflow: hidden; /* required */
height: 100%;
}
#headerSlide .item {
display: inline-block;
width: 33.3333%; /* required * Determines number of visible slides */
position: relative; /* required */
vertical-align: top; /* required */
overflow: hidden; /* required */
height: 100%; /* recommended */
white-space: normal;
}
.item img {
width: 100%;
height: 100%;
padding: 20px 10px;
}
```



```
#headerSlide .MS-controls .MS-left {
border: none;
left: 10px;
}
#headerSlide .MS-controls .MS-right {
border: none;
right: 10px;
}
.MS-right:focus,
.MS-left:focus {
outline:inherit;
}
.MS-right:active,
.MS-left:active {
color: #393E46;
background-color: #393E46;
}
#headerSlide .MS-right {
position: absolute;
font-weight: bolder;
right: 20px;
top: 50%;
transform: translateY(-50%);
}
#headerSlide .MS-left {
font-weight: bolder;
position: absolute;
left: 20px;
top: 50%;
transform: translateY(-50%);
}
main {
display: flex;
flex-direction: column;
justify-content: center;
align-items: center;
margin-bottom: 80px;
}
.main-section {
width: 100%;
text-align: center;
margin: 50px 0;
```

```
}  
.product-container {  
max-width: 1600px;  
margin: auto;  
width: 88vw;  
position: relative;  
}  
.main-section h3 {  
font-size: 1.3rem;  
padding: 50px;  
}  
.products {  
display: grid;  
grid-template-columns: repeat(4, 1fr);  
grid-gap: 10px;  
}  
.product {  
position: relative;  
text-align: center;  
height: 400px;  
border-radius: 5px;  
overflow: hidden;  
}  
.product-under {  
width: 100%;  
height: 100%;  
}  
.product-over {  
z-index: 10;  
position: absolute;  
left: 0;  
top: 0;  
width: 100%;  
height: 100%;  
display: none;  
justify-content: center;  
align-items: center;  
animation-name: show_top;  
animation-duration: 1s;  
backdrop-filter: blur(5px);  
}  
@keyframes show_top {
```

```
from {
opacity: 0;
}
to {
opacity: 1;
}
}

.product-image:hover .product-over {
display: flex;
flex-direction: column;
}

.product-image {
position: relative;
height: 62%;
background-color: #eee;
}

.product-image img {
position: absolute;
left: 50%;
top: 50%;
transform: translate(-50%, -50%);
width: 70%;
}

.product-summary {
font-size: 0.9rem;
position: relative;
padding: 10px 5px;
height: 38%;
}

.product-summary > .price {
position: absolute;
left: 20px;
bottom: 0;
}

.stars {
position: relative;
width: 110px;
height: 40px;
display: block;
margin: auto;
padding: 5px;
}
```

```
.stars::after {
content: "\2605 \2605 \2605 \2605 \2605";
position: absolute;
left: 0;
top: 0;
width: 65%;
display: block;
font-size: 1.4rem;
color: #dabd3b;
overflow: hidden;
}

.stars::before {
content: "\2606 \2606 \2606 \2606 \2606";
position: absolute;
left: 0;
top: 0;
font-size: 1.4rem;
color: #7e6c1f;
}

/* Buttons style */

.btn {
background-color: #393E46;
padding: 15px 50px 15px 30px;
color: #141414;
font-weight: bold;
border-radius: 5px;
text-align: center;
font-size: 1.1rem;
position: relative;
}

.btn:active {
box-shadow: none;
}

.btn > .fa-angle-right {
font-size: 1.5rem;
position: absolute;
right: 30px;
top: 50%;
transform: translateY(-50%);
transition: right 0.5s;
}

.btn:hover .fa-angle-right {
```

```
font-size: 1.5rem;
position: absolute;
right: 20px;
}
.btn i {
margin: 0 5px;
}
.pop-mobiles {
display: flex;
flex-direction: column;
align-items: center;
justify-content: center;
position: relative;
}
.pop-mobiles-1 {
background: linear-gradient(to top, #EAEAEA, #EAEAEA);
overflow: hidden;
width: 100%;
height: 600px;
margin-bottom: 30px;
position: relative;
padding: 0;
}
.pop-mobiles-1 > figure {
position: absolute;
left: 0;
bottom: 0;
width: 49%;
}
.pop-mobiles-1 img {
position: absolute;
left: 0;
bottom: 0;
width: 100%;
z-index: 0;
}
.pop-mobiles-1 > div {
position: absolute;
right: 10%;
top: 30%;
z-index: 10;
width: 40%;
```

```
height: 100%;
text-align: left;
}
.pop-mobiles-1 h4 {
color: rgb(187, 76, 76);
font-size: 1.2rem;
}
.pop-mobiles-1 h2 {
font-family: "Franklin Gothic Medium", "Arial Narrow", Arial, sans-serif;
font-weight: 900;
font-size: 1.8rem;
}
.pop-mobiles-1 .btn {
display: inline-block;
margin-top: 50px;
margin: 50px 0;
color: #fff;
}
.btn-newMobile {
background-color: white;
color: #fff;
box-shadow: 3px 3px 5px #fff;
z-index: 10;
}
.pop-mobiles-2 {
width: 55%;
}
.pop-mobiles-2 .products {
grid-template-columns: repeat(3, 1fr);
}
.pop-mobiles-2 .product {
overflow: hidden;
margin-bottom: 10px;
}
.pop-mobiles-2 img {
width: 70%;
margin: auto;
}
.btn-small {
border: none;
```

```
font-size: 0.9rem;
width: 60%;
padding: 15px;
background-color: white;
box-shadow: 2px 2px 2px #393E46;
color: black;
margin-bottom: 10px;
cursor: pointer;
}
.btn-small:hover {
background-color: #393E46;
color: white;
}
footer {
overflow: hidden;
background-color: #eee;
}
footer .footer-second {
width: 100%;
display: block;
padding: 50px 0;
overflow: hidden;
text-align: center;
}
.footer-second a {
display: block;
margin: 5px auto;
width: 50%;
padding: 5px;
font-size: 0.9rem;
}
.footer-second h3 {
margin-bottom: 40px;
font-size: 1rem;
}
.footer-second a:hover {
color: #045e52;
text-decoration: underline;
text-decoration-color: black;
}
.footer-column-1 {
```

```
width: calc(33.33333%);
float: left;
}
.footer-column-2 {
width: calc(33.33333%);
float: left;
}
.footer-column-3 {
width: calc(33.33333%);
float: left;
}
.footer-last {
width: 100%;
display: flex;
justify-content: center;
font-size: 1.5rem;
}
.footer-last li {
margin: 0 5px;
}
.hidden {
display: none;
}
@media screen and (max-width: 1024px) {
nav .navbar-top {
padding: 0;
}
nav {
justify-content: left;
align-items: flex-start;
margin-bottom: 20px;
}
#headerSlide .item {
display: inline-block;
width: 100%;
}
.navbar-top .logo {
width: 100px;
float: left;
}
```



```
#menuButton {
display: inline;
}

.navbar {
background-color: #141414;
width: 400px;
height: 55vh;
z-index: 10;
position: absolute;
top: 100px;
left: 0;
transform: translateX(-500px);
}

.navbarResponsive {
transition: transform 0.5s;
flex-direction: column;
transform: translateX(0);
}

.navbarResponsive:after {
content: "";
position: fixed;
left: 0;
top: 0;
width: 100vw;
height: 100%;
background: rgba(0, 0, 0, 0.5);
z-index: -1;
}

.nav-links:hover .link::before {
display: none;
}

.nav-links:hover .link::after {
display: none;
}

.nav-links:hover .link {
text-decoration: underline;
}

.item img {
padding: 10px 5px;
}
```

```
.pop-mobiles-2 {  
width: 90%;  
margin-top: 100px;  
}  
.product-container {  
width: 90%;  
}  
.product-over button {  
font-size: 0;  
}  
.product .product-image {  
height: 200px;  
}  
}  
@media screen and (max-width: 768px) {  
.account-btn {  
font-size: 1rem;  
}  
.product-summary {  
height: 30%;  
}  
.products {  
width: 80%;  
margin: auto;  
grid-template-columns: repeat(2, 1fr);  
}  
.product-summary > p {  
display: none;  
}  
.pop-mobiles-1 > figure {  
width: 70%;  
}  
.pop-mobiles-1 > div {  
left: 10%;  
top: 40%;  
width: 70%;  
height: auto;  
}
```

```
footer .footer-second {
margin-left: 30px;
display: flex;
flex-direction: column;
justify-content: start;
align-items: start;
}
.footer-second h3 {
margin-bottom: 15px;
}
.footer-second > div {
margin-top: 30px;
text-align: left;
width: 100%;
}
.footer-second a {
width: 100%;
}
}
@media screen and (max-width: 500px) {
.btn {
font-size: 0.9rem;
}
.navbar {
width: 100vw;
height: 430px;
}
.producstOnCart {
font-size: 0.8rem;
}
.pop-mobiles-1 {
width: 100%;
font-size: 0.9rem;
height: 300px;
margin: 0;
}
.pop-mobiles-1 .btn {
opacity: 0.9;
}
.pop-mobiles-1 > div {
```

```

top: 0%;
}
.pop-mobiles-1 h2 {
font-family: "Franklin Gothic Medium", "Arial Narrow", Arial, sans-serif;
font-weight: 900;
font-size: 1.4rem;
}
.pop-mobiles-2 {
width: 55%;
margin-left: 1%;
}
.products {
grid-template-columns: 1fr;
}
.pop-mobiles-2 .products {
grid-template-columns: 1fr;
}
.product-summary .price {
display: inline;
left: 0;
}
.account-text {
display: none;
}
.fas {
font-size: 1rem;
}
.pop-mobiles {
justify-content: center;
align-items: center;
flex-direction: column;
}
}

```

JAVASCRIPT CODE FOR MAINPAGE

```

let productsInCart = JSON.parse(localStorage.getItem('shoppingCart'));
if(!productsInCart){
productsInCart = [];
}
const parentElement = document.querySelector('#buyItems');
const cartSumPrice = document.querySelector('#sum-prices');

```

```

const products = document.querySelectorAll('.product-under');
const countTheSumPrice = function () { // 4
let sum = 0;
productsInCart.forEach(item => {
sum += item.price;
});
return sum;
}
const updateShoppingCartHTML = function () { // 3
localStorage.setItem('shoppingCart', JSON.stringify(productsInCart));
if (productsInCart.length > 0) {
let result = productsInCart.map(product => {
return `
<li class="buyItem">

<div>
<h5>${product.name}</h5>
<h6>${product.price}</h6>
<div>
<button class="button-minus" data-id=${product.id}>-</button>
<span class="countOfProduct">${product.count}</span>
<button class="button-plus" data-id=${product.id}>+</button>
</div>
</div>
</li>`
});
parentElement.innerHTML = result.join("");
document.querySelector('.checkout').classList.remove('hidden');
cartSumPrice.innerHTML = '$' + countTheSumPrice();
}
else {
document.querySelector('.checkout').classList.add('hidden');
parentElement.innerHTML = '<h4 class="empty">Your shopping cart is empty</h4>';
cartSumPrice.innerHTML = "";
}
}
function updateProductsInCart(product) { // 2
for (let i = 0; i < productsInCart.length; i++) {
if (productsInCart[i].id == product.id) {
productsInCart[i].count += 1;

```

```

productsInCart[i].price = productsInCart[i].basePrice * productsInCart[i].count;
return;
}
}
productsInCart.push(product);
}
products.forEach(item => { // 1
item.addEventListener('click', (e) => {
if (e.target.classList.contains('addToCart')) {
const productID = e.target.dataset.productId;
const productName = item.querySelector('.productName').innerHTML;
const productPrice = item.querySelector('.priceValue').innerHTML;
const productImage = item.querySelector('img').src;
let product = {
name: productName,
image: productImage,
id: productID,
count: 1,
price: +productPrice,
basePrice: +productPrice,
}
updateProductsInCart(product);
updateShoppingCartHTML();
}
});
});
parentElement.addEventListener('click', (e) => { // Last
const isPlusButton = e.target.classList.contains('button-plus');
const isMinusButton = e.target.classList.contains('button-minus');
if (isPlusButton || isMinusButton) {
for (let i = 0; i < productsInCart.length; i++) {
if (productsInCart[i].id === e.target.dataset.id) {
if (isPlusButton) {
productsInCart[i].count += 1
}
else if (isMinusButton) {
productsInCart[i].count -= 1
}
productsInCart[i].price = productsInCart[i].basePrice * productsInCart[i].count;
}
if (productsInCart[i].count <= 0) {
productsInCart.splice(i, 1);
}
}
}

```

```
}  
updateShoppingCartHTML();  
}  
});  
updateShoppingCartHTML();
```

GitHub & Project Demo Link

<https://drive.google.com/file/d/1z5u5O36DVAhc3YKCCDI2XM3BIzPZQwdi/view>

