



# **IBM PROJECT**

# SMART FASHION RECOMMENDER APPLICATION

BATCH:B6-6M2E

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### 1.INTRODUCTION

Internet shopping is productively growing in today's world of e-commerce. So, product recommendation systems also has a chance to be developed. Since users need a relationship between them and system. 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.

### 2.LITERATURE SURVEY

#### A. ABSTRACT

There has been number of researches in the field of data analytics to recommend the products, and many of them are successfully recommend the desired content what user is asking for. There are several domains such as ecommerce, movies, musical instruments, websites, books, etc. where recommendation system has its own significance. The outcomes provided by these domains has the scope of improvements so that final result will reach to user's satisfaction. This research use the recommendation system and provide the output desired by user. Research is introducing the chat bot which recommends the product to the customers as per their requirement. The chat bot is basically order taking with minimal user input and suggested the appropriate product. Customer provide the details about the product

through the chat bot. And according to user description it will recommend the related products. Doc2Vec,Latent Semantic Analysis, and Sentiment Analysis come together to make relevant recommendations in a chat bot interface.

#### **B. REFERENCES**

- Chung, M., Ko, E., Joung, H., & Kim, S. J. (2020). Chatbot e-service And customer satisfaction regarding luxury brands. Journal of Business Research, 117, 587–595. Colombi, C., Kim, P., & Wyatt, N. (2018). Fashion retailing
- 2. Kasilingam, D. L. (2020). Understanding the attitude and intention to Use smartphone chatbots for shopping Technology in Society, 62, 101280
- 3. Liu, C., Jiang, J., Xiong, C., Yang, Y., & Ye, J. (2020). TowardsBuilding An Intelligent chatbot for customer service:Learning to respond at the appropriate time. ACM SIGKDD KDD, 3377–3385.
- 4. Sanny, L., Susastra, A., Roberts, C., & Yusramdaleni, R.(2020). The Analysis of customer satisfaction factors which influence chatbot Acceptance in Indonesia.Management Science Letters, 10(6), 1225–1232.
- 5. Pricilla, C., Lestari, D. P., & Dharma, D. (2018). Designing interaction For chatbot-based conversational commerce with user-centered Design. ICAICTA, 2018,244–249.
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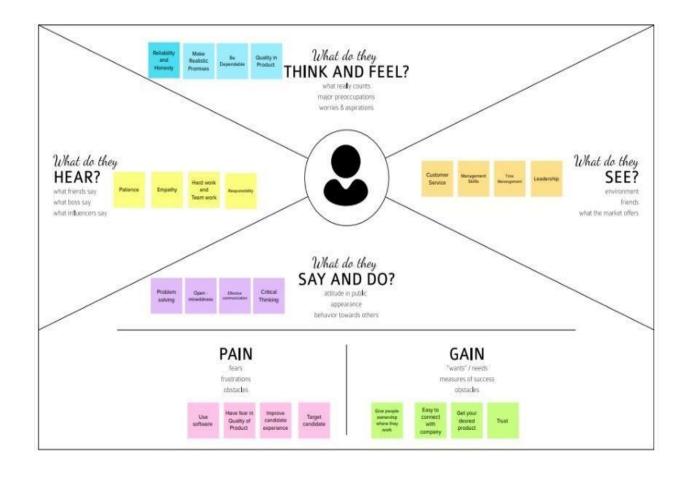
- 7. Kucherbaev, P., Psyllidis, A. and Bozzon, A. (2017). Chatbots as Conversational recommender systems in urban ccontexts Proceedings of the International Workshop on Recommender Systems for Citizens, CitRec '17, ACM, New York, NY, USA, pp. 6:1–6:2.
- 8. Nazir, A., Khan, M. Y., Ahmed, T., Jami, S. I., & Wasi, S.(2019). A novel Approach for ontology-driven information retrieving chatbot for Fashion brands. International Journal of Advanced Computer Science And Applications, 10(9),546–552.
- 9. Qiu, M., Li, F. L., Wang, S., Gao, X., Chen, Y., Zhao, W.,...Chu, W.(2017). Alime chat: A sequence to sequence andre rank based Chatbot engine. ACL 2017 (long papers), 2,498–503.

#### C. PROBLEM STATEMENT

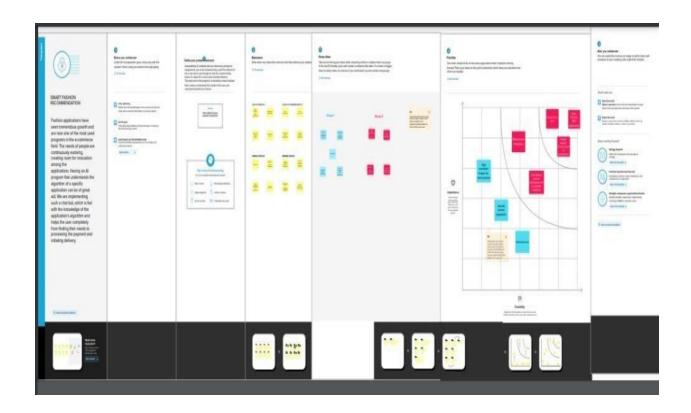
Internet shopping is productively growing in today's world of e-commerce. So, product recommendation systems also has a chance to be developed. Since users need a relationship between them and system. We have come up with a new innovative solution through which you can directly do your online shopping based on your choice without any search. It can be done by using the chatbot.

# 3.IDEATION AND PROPOSED SOLUTION

# A. EMPATHY MAP



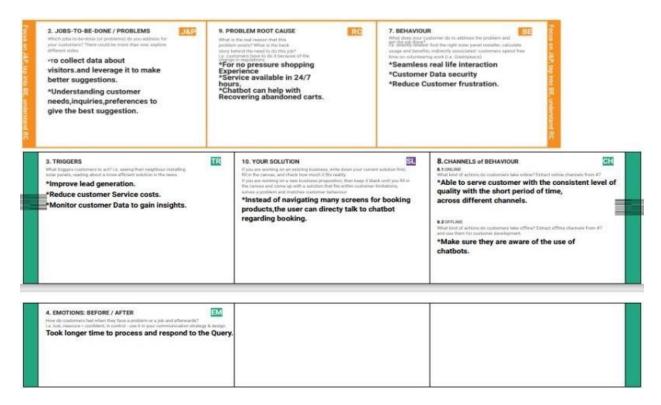
# **B. IDEATION**



# **C. PROPOSED SOLUTION**

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Lack of interaction between application and user.  User need to navigate across multiple pages to choose right product.  Confusion in choosing product Lack of sales Complex User Interface.  Lack of proper guidance.
2.	Idea / Solution description	By using Smart fashion recommender application:  Improve customer relationship, interactivity and services.  Effective recommendation of products.  Recommendation within a single page via chat-bot.  Collect feedback instantly.  Reduce human error.  Proper guidance in accessing application.
3.	Novelty / Uniqueness	<ul> <li>Chat-bot asks and learns from user preference which recommends appropriate products to the user without making them to search through various filters. Reduces time in choosing right product thus increases sales.</li> </ul>
4.	Social Impact / Customer Satisfaction	<ul> <li>Feedback from the user at the end of session or after placing order is one of the most important factor in deriving customer satisfaction and providing better services</li> </ul>
5.	Business Model (Revenue Model)	<ul> <li>The application can be developed at minimum cost with high performance and interactive user interface.</li> </ul>
6.	Scalability of the Solution	<ul> <li>The solution can be made scalable by using micro service architecture provided that each server responsible for certain functionality of the application. Storing user preferences</li> </ul>

### D. PROBLEM SOLUTION FIT

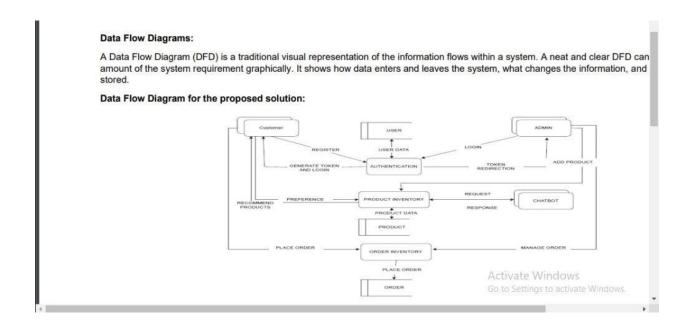


# **4.SOFTWARE REQUIREMENTS**

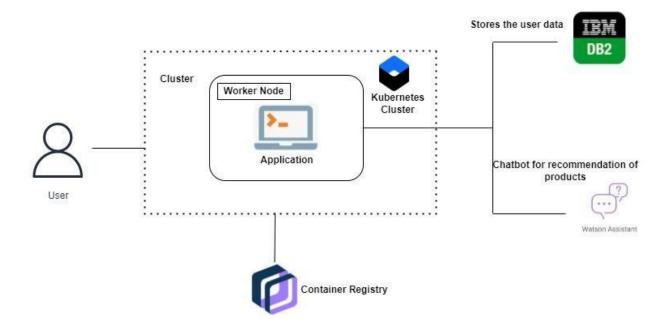
- IBM Cloud
- HTML
- Javascript
- IBM Cloud Object Storage
- Python-Flask
- Kubernetes
- Docker
- IBM DB2
- IBM Container Registry

# **5.PROJECT DESIGN**

### A. DATA FLOW DIAGRAM



# **B. TECHNICAL ARCHITECTURE**



# **C.USER STORIES**

			<b>→</b> PrinceProper VIIII <b>→</b> Orbid			
Use the below to	Functional Requirement (Epic)	User Story Number	for the product.  User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail	1	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can access and make purchases.	High	Sprint-1
	Dashboard		-			
Customer (Web user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
20		USN-5	As a user, I can log into the application by entering email & password	I can access and make purchases.	High	Sprint-1
Administrator	Login	USN-1	I enter my mail and password on organisation's approval	I can approve products and purchases	High	Sprint-1 Administr

# **6.SOLUTION REQUIREMENTS**

# **A. FUNCTIONAL REQUIREMENTS**

#### **Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No. Functional Requirement (Epic)		Sub Requirement (Story / Sub-Task)			
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN			
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP			
FR-3	Delivery confirmation	Confirmation via email and phone number			
FR-4	Assistance	Bot is integrated with the application to make the usability simple			

# **B. NON-FUNCTIONAL REQUIREMENTS**

#### **Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	A user-friendly interface with chat bot to make usability efficient
NFR-2	Security	Secured connection HTTPS should be established for transmitting requests and responses
NFR-3	Reliability	The system should handle excepted as well as unexpected errors and exceptions to avoid termination of the program
NFR-4	Performance	The system shall be able to handle multiple requests at any given point in time and generate an appropriate response.
NFR-5	Availability	It is a cloud based web application so user can access without any platform limitations ,just using a browsers with a internet connection is enough for use the application
NFR-6	Scalability	It has a quick request and response time, high throughput, enough network resources and so on.

# 7.PROJECT PLANNING

# **A. SPRINT PLANNING**

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

Use the below template to create product backlog and sprint schedule

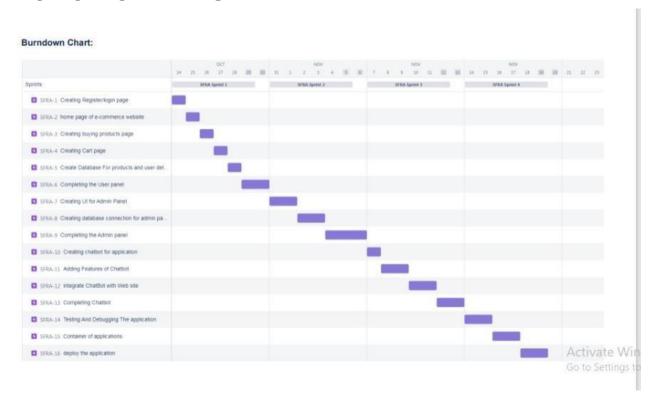
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	User panel	USN-1	The user will login into the website and go through the products available on the website	2	High	M.llakkiya Shenbagam
Sprint-2	chatbot	USN-2	The user can directly talk to Chatbot regarding the products. Get the recommendations based on information provided by the user.	1	High	J.Jeya Roselin
Sprint-3	print-3 admin panel USN-3 The role of the admin is to check out the database about the stock and have a track of all the things that the users are purchasing.		2	high	M.Saru Latha	
Sprint-4	final Delivery	USN-4	Container of applications using docker kubernetes and deployment the application. Create the documentation and final submit the application	2	high	R.pirama Raji

# **B. SPRINT DELIVERY SCHEDULE**

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	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022		05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022		12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022		19 Nov 2022

### C. BURDOWN DIAGRAM



### 8.CONCLUSION

This paper presented an interdisciplinary, comprehensive review of what has been done in the field of conversational agents for fashion and retail e-commerce. Thus this study adds to specialized literature in the field of chatbot design for fashion e-commerce by providing a comprehensive map of chatbot approaches that can be deployed by retailers.

### 9.FUTURE SCOPE

This project carries a broad prospective for future. In future, our project can be extended towards providing online payments for the users, feature to track the order and gps features to get the customer location.

## **10.SOURCE CODE**

# **Creating UI for application**

<section id="header">

```
Index.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
  <title>RST/Home</title>
  <link rel="stylesheet"</pre>
href=https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css>
  <link rel="stylesheet" href=https://rakesh87.s3.us-</pre>
east.cloud-object-storage.appdomain.cloud/style.css>
</head>
<body>
```

```
<a href="#"><img src=https://saravanan2001mohan.s3.us-
east.cloud-object-storage.appdomain.cloud/rst%20(1).png
       Class="logo" alt="" width="150" height="60"></a>
   <div>
     ul id="navbar">
       <a class="active"</li>
href="index.html">Home</a>
       <a href="login.html">Login</a><x/li>
       <a href="product.html">Product</a>
       <a href="about.html">About</a>
       <a href="contact.html">Contact</a>
       <a href="cart.html"><I class="fa fa-shopping-
bag"></i></a>
       <a href="register.html"><I class="fa fa-user-</a>
secret"></i></a>
     </section>
 <section id="hero">
   <h4>"Happiness Depends Upon Ourselves"</h4>
   <h2>Smart Fashion Recommender</h2>
```

<h1>Application</h1>

```
>Dress Up In Confidence
    <button class="normal">Shop now</button>
  </section>
  <section id="feature" class="section-p1">
    <div class="fe-box">
      <img src=https://unik.s3.jp-tok.cloud-object-
storage.appdomain.cloud/freeship.png alt="" width="100"
        Height="100">
      <h6>Free Shipping</h6>
    </div>
    <div class="fe-box">
      <img src=https://unik.s3.jp-tok.cloud-object-
storage.appdomain.cloud/orderonline.jpg alt="" width="100"
        Height="100">
      <h6>Online Order</h6>
    </div>
    <div class="fe-box">
      <img src=https://unik.s3.jp-tok.cloud-object-
storage.appdomain.cloud/savemoney.jpg alt="" width="100"
        Height="100">
      <h6>Save Money</h6>
```

```
</div>
    <div class="fe-box">
      <img src=https://unik.s3.jp-tok.cloud-object-
storage.appdomain.cloud/promotion.jpg alt="" width="100"
        Height="100">
      <h6>Promotions</h6>
    </div>
    <div class="fe-box">
      <img src=https://unik.s3.jp-tok.cloud-object-
storage.appdomain.cloud/happysell.jpg alt="" width="100"
        Height="100">
      <h6>Happy Sell</h6>
    </div>
    <div class="fe-box">
      <img src=https://unik.s3.jp-tok.cloud-object-
storage.appdomain.cloud/support.jpg alt="" width="100"
        Height="100">
      <h6>F24/7 Support</h6>
    </div>
<a href="#"><I class="fa fa-shopping-bag bag"></i></a>
```

```
</div>
</div>
</section>
<section id="sm-banner" class="section-p1">
<div class="banner-box">
<h4>Crazy Deals</h4>
<h2>Buy 1 get 1 free</h2>
<span>The best classic dress is on sale at U Nik</span>
<a href="products.html"><button class="white">Learn More
</button></a>
</div>
<div class="banner-box banner-box2">
<h4>spring/summer</h4>
<h2>upcommig seasons</h2>
<span>The best classic dress is on sale at U Nik</span>
<a href="blog.html"><button
class="white">Collection</button></a>
</div >
</section>
<section id="banner3">
<div class="banner-box">
```

```
<h2>SEASONAL SALE</h2>
<h3>Winter collection 50% off</h3>
</div >
<div class="banner-box banner-box2">
<h2>SEASONAL SALE</h2>
<h3>Winter collection 50% off</h3>
</div >
<div class="banner-box banner-box3">
<h2>SEASONAL SALE</h2>
<h3>Winter collection 50% off</h3>
</div >
</section> →
  <section id="newsletter" class="section-p1">
    <div class="newstext">
      <h4>Sign up for NewsLetters</h4>
      Get Email updates about our latest shop and
<span>special offer</span>
      </div>
    <div class="form">
```

```
<input type="text" placeholder="Your E-mail Address">
      <button class="normal">login</button>
    </div>
  </section>
  <footer class="section-p1">
    <div class="col">
      <img class="logo"
        Src=https://saravanan2001mohan.s3.us-east.cloud-
object-storage.appdomain.cloud/rst%20(1).png alt=""
        Width="200" height="100">
      <h4>Contact</h4>
      <strong>E-Mail:
</strong><u>rstsmartfashion@gmail.com</p</u>>
      <strong>Phone: </strong>1234567890
      <div class="follow">
        <h4>Follow us</h4>
        <div class="icon">
          <I class="fa fa-facebook-f"></i>
          <| class="fa fa-twitter"></i>
          <I class="fa fa-instagram"></i>
          <I class="fa fa-pinterest-p"></i>
```

```
<I class="fa fa-youtube"></i>
        </div>
      </div>
    </div>
    <div class="col">
<script>
  Window.watsonAssistantChatOptions = {
   integrationID: "f575ccb9-7f1a-4ceb-b32b-23f9d2a71c7a", //
The ID of this integration.
   Region: "au-syd", // The region your integration is hosted in.
   serviceInstanceID: "c8db2a25-708c-4bac-bb36-
d9b5b790d6d3", // 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>
</body>
</html>
Login.html
<!DOCTYPE html>
<!—Created By CodingNepal →
<html lang="en" dir="ltr">
 <head>
   <meta charset="utf-8">
   <title>Login and Registration Form in HTML |
CodingNepal</title>
   <link rel="stylesheet" href="style.css">
   <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
 </head>
 <body>
   <div class="wrapper">
```

```
<div class="title-text">
      <div class="title login">
        Login
      </div>
      <div class="title signup">
        Signup
      </div>
     </div>
     <div class="form-container">
      <div class="slide-controls">
        <input type="radio" name="slide" id="login" checked>
        <input type="radio" name="slide" id="signup">
        <label for="login" class="slide login">Login</label>
        <label for="signup" class="slide</pre>
signup">Signup</label>
        <div class="slider-tab"></div>
      </div>
      <div class="form-inner">
        <form action="#" class="login">
          <div class="field">
```

```
<input type="text" placeholder="email-id"
required>
         </div>
         <div class="field">
           <input type="password" placeholder="password"
required>
         </div>
         <div class="pass-link">
           <a href="forgot.html">Forgot password?</a>
         </div>
         <div class="field btn">
           <div class="btn-layer"></div>
           <input type="submit" value="Login">
         </div>
         <div class="signup-link">
           Not a member? <a href="">Signup now</a>
         </div>
        </form>
        <form action="#" class="signup">
         <div class="field">
```

```
<input type="text" placeholder="email-id"
required>
         </div>
         <div class="field">
           <input type="password" placeholder="password"
required>
         </div>
         <div class="field">
           <input type="password" placeholder="Confirm
password" required>
         </div>
         <div class="field btn">
           <div class="btn-layer"></div>
           <input type="submit" value="Signup">
         </div>
        </form>
      </div>
    </div>
   </div>
   <script>
```

```
Const loginText = document.querySelector(".title-text
.login");
     Const loginForm = document.querySelector("form.login");
     Const loginBtn = document.querySelector("label.login");
     Const signupBtn =
document.querySelector("label.signup");
     Const signupLink = document.querySelector("form
.signup-link a");
     signupBtn.onclick = (()=>{
      loginForm.style.marginLeft = "-50%";
      loginText.style.marginLeft = "-50%";
    });
     loginBtn.onclick = (()=>{
      loginForm.style.marginLeft = "0%";
      loginText.style.marginLeft = "0%";
    });
     signupLink.onclick = (()=>{
      signupBtn.click();
      return false;
    });
   </script>
```

```
</body>
```

### Product.html

```
</div>
<h4>₹8000</h4>
</div>
<a href="#"><I class="fa fa-shopping-bag bag"></i></a>
</div>
<div class="pro">
<img src=https://s3.jp-tok.cloud-object-
storage.appdomain.cloud/unik/shoe2.jpg height="400" alt="">
<div class="des">
<span>Nike</span>
<h5>Sandle High Heel</h5>
<div class="star">
<| class="fa fa-star"></i>
<| class="fa fa-star"></i>
<| class="fa fa-star"></i>
<I class="fa fa-star"></i>
<I class="fa fa-star"></i>
</div>
<h4>₹6600</h4>
</div>
```

```
<a href="#"><I class="fa fa-shopping-bag bag"></i></a>
</div>
<div class="pro">
<img src=https://s3.jp-tok.cloud-object-
storage.appdomain.cloud/unik/shoe3.jpg height="400" alt="">
<div class="des">
<span>Walkaroo</span>
<h5>Brown High Heel</h5>
<div class="star">
<| class="fa fa-star"></i>
<| class="fa fa-star"></i>
<I class="fa fa-star"></i>
<| class="fa fa-star"></i>
<| class="fa fa-star"></i>
</div>
<h4>₹7800</h4>
</div>
<a href="#"><I class="fa fa-shopping-bag bag"></i></a>
</div>
<div class="pro">
```

```
<img src=https://s3.jp-tok.cloud-object-
storage.appdomain.cloud/unik/tops.jpg alt="">
<div class="des">
<span>Zara</span>
<h5>Black Smile T-Shirts</h5>
<div class="star">
<I class="fa fa-star"></i>
<I class="fa fa-star"></i>
<I class="fa fa-star"></i>
<| class="fa fa-star"></i>
<I class="fa fa-star"></i>
</div>
<h4>₹900</h4>
</div>
<a href="#"><I class="fa fa-shopping-bag bag"></i></a>
</div>
<div class="pro">
<img src=https://s3.jp-tok.cloud-object-
storage.appdomain.cloud/unik/tops1.jpg alt="">
<div class="des">
<span>Zara</span>
```

```
<h5>Pink dog T-Shirts</h5>
<div class="star">
<I class="fa fa-star"></i>
</div>
<h4>₹900</h4>
</div>
<a href="#"><I class="fa fa-shopping-bag bag"></i></a>
</div>
<div class="pro">
<img src=https://s3.jp-tok.cloud-object-
storage.appdomain.cloud/unik/tops2.jpg alt="">
<div class="des">
<span>Zara</span>
<h5>Black and White Trendy Shirt</h5>
<div class="star">
<I class="fa fa-star"></i>
```

```
<I class="fa fa-star"></i>
<I class="fa fa-star"></i>
<I class="fa fa-star"></i>
<| class="fa fa-star"></i>
</div>
<h4>₹1500</h4>
</div>
<a href="#"><I class="fa fa-shopping-bag bag"></i></a>
</div>
<div class="pro">
<img src=https://s3.jp-tok.cloud-object-
storage.appdomain.cloud/unik/tops3.jpg alt="">
<div class="des">
<span>Zara</span>
<h5>Green Panda Shirt</h5>
<div class="star">
<I class="fa fa-star"></i>
<I class="fa fa-star"></i>
<I class="fa fa-star"></i>
<I class="fa fa-star"></i>
```

```
<| class="fa fa-star"></i>
</div>
<h4>₹600</h4>
</div>
<!-- <a href="#"><I class="fa fa-shopping-bag bag"></i></a>
</div>
</div>
</section>
<section id="sm-banner" class="section-p1">
<div class="banner-box">
<h4>Crazy Deals</h4>
<h2>Buy 1 get 1 free</h2>
<span>The best classic dress is on sale at U Nik</span>
<a href="products.html"><button class="white">Learn More
</button></a>
</div>
<div class="banner-box banner-box2">
<h4>spring/summer</h4>
<h2>upcommig seasons</h2>
<span>The best classic dress is on sale at U Nik</span>
```

```
<a href="blog.html"><button
class="white">Collection</button></a>
</div >
</section>
<section id="banner3">
<div class="banner-box">
<h2>SEASONAL SALE</h2>
<h3>Winter collection 50% off</h3>
</div >
<div class="banner-box banner-box2">
<h2>SEASONAL SALE</h2>
<h3>Winter collection 50% off</h3>
</div >
<div class="banner-box banner-box3">
<h2>SEASONAL SALE</h2>
<h3>Winter collection 50% off</h3>
</div>
<!--</section> \rightarrow \rightarrow
  <!-- <section id="newsletter" class="section-p1">
    <div class="newstext">
```

```
<h4>Sign up for NewsLetters</h4>
      Get Email updates about our latest shop and
<span>special offer</span>
     </div>
   <div class="form">
     <input type="text" placeholder="Your E-mail Address">
     <button class="normal">login
   </div>
 </section> →
 <!-- <footer class="section-p1">
   <div class="col">
      <img class="logo"
       Src=https://saravanan2001mohan.s3.us-east.cloud-
object-storage.appdomain.cloud/rst%20(1).png alt=""
       Width="200" height="100">
     <h4>Contact</h4>
     <strong>E-Mail:
</strong>rstsmartfashion@gmail.com
      <strong>Phone: </strong>1234567890
     <div class="follow">
```

```
<h4>Follow us</h4>
        <div class="icon">
           <I class="fa fa-facebook-f"></i>
           <I class="fa fa-twitter"></i>
           <I class="fa fa-instagram"></i>
           <| class="fa fa-pinterest-p"></i>
           <I class="fa fa-youtube"></i>
        </div>
      </div>
    </div> \rightarrow
    <!-- <div class="col"> →
      <!-- <h4>About</h4>
<a href="#">About us</a>
<a href="#">Delivery Information</a>
<a href="#">Privacy Policy</a>
<a href="#">Tearms & Conditions</a>
<a href="#">Contact us</a>
</div>
<div class="col">
<h4>My Account</h4>
```

```
<a href="#">Sign In</a>
<a href="#">View Cart</a>
<a href="#">My Wishlist</a>
<a href="#">Track my order</a>
<a href="#">Help</a>
</div>
</footer>
<div class="copyright">
<center>© 2022, PNT2022TMI36870 – Smart Fashion
Recommender Application </center>
</div> →
<!-- <script>
 Window.watsonAssistantChatOptions = {
   integrationID: "f575ccb9-7f1a-4ceb-b32b-23f9d2a71c7a", //
The ID of this integration.
   Region: "au-syd", // The region your integration is hosted in.
   serviceInstanceID: "c8db2a25-708c-4bac-bb36-
d9b5b790d6d3", // 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> \rightarrow
</body></html>
Sendmail.py
Import smtplib
Import sendgrid
Import os
From sendgrid.helpers.mail import Mail, Email, To, Content
SUBJECT = "Interview Call"
S = smtplib.SMTP('smtp.gmail.com', 587)
Def sendmail(TEXT,email):
  Print("sorry we cant process your candidature")
S = smtplib.SMTP('smtp.gmail.com', 587)
```

```
s.starttls()
s.login(<u>il.pradeepthi@gmail.com</u>, "oms@1Ram")
message = 'Subject: {}\n\n{}'.format(SUBJECT, TEXT
 s.sendmail(<u>il.pradeepthi@gmail.com</u>, email, message)
s.quit()
def sendgridmail(user,TEXT):
 sg =
sendgrid.SendGridAPIClient('SG.nouVVZMwQTSYtih73r1TxQ.3H
OkajWkEYpoORV1iarxSVKbqvtjyZ nhPbKi3zeZnc')
from email = Email(sandeep@thesmartbridge.com) # Change
to your verified sender
to_email = To(user) # Change to your recipient
subject = "Sending with SendGrid is Fun"
content = Content("text/plain",TEXT)
mail = Mail(from_email, to_email, subject, content)
# Get a JSON-ready representation of the Mail object
 Mail json = mail.get()
 # Send an HTTP POST request to /mail/send
Response = sg.client.mail.send.post(request_body=mail_json)
Print(response.status_code)
  Print(response.headers)
```

#### **Deployment.yaml**

```
apiVersion: apps/v1
kind: Deployment
 metadata:
   name: jobportal
spec:
    replicas: 1
    selector:
        matchLabels:
            app: flasknode
     template:
        metadata:
           labels:
             app: flasknode
        spec:
           containers:
               Name: flasknode
             Image: icr.io/helloworld1/newhelloworld
             imagePullPolicy: Always
           ports:
```

#### containerPort: 5000

# Service.yaml

apiVersion: v1

kind: Service

metadata:

name: flask-node-deployment

spec:

ports:

-port: 5000

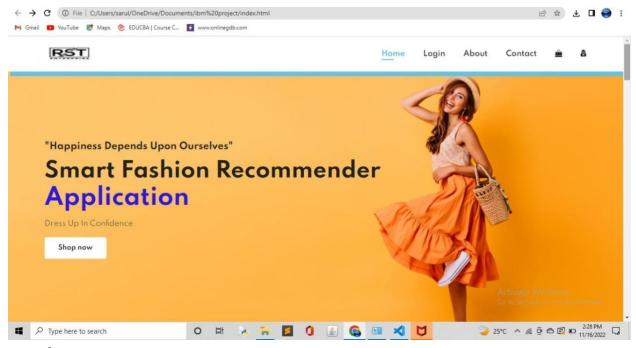
targetPort: 5000

selector:

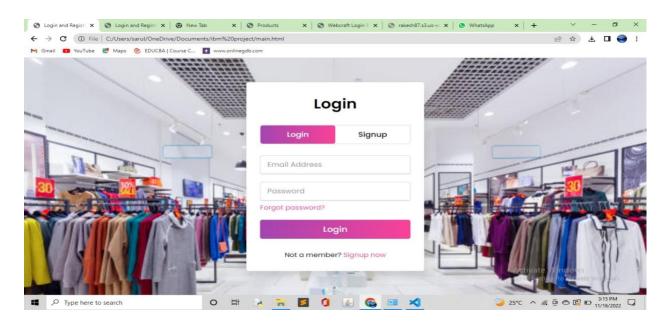
app: flasknode

#### 11.OUTPUT IMAGES

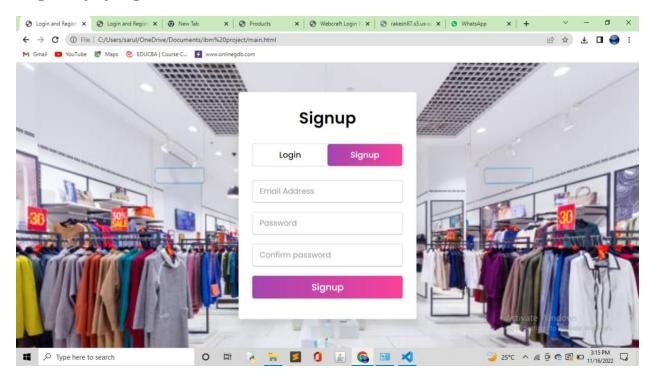
## Home page



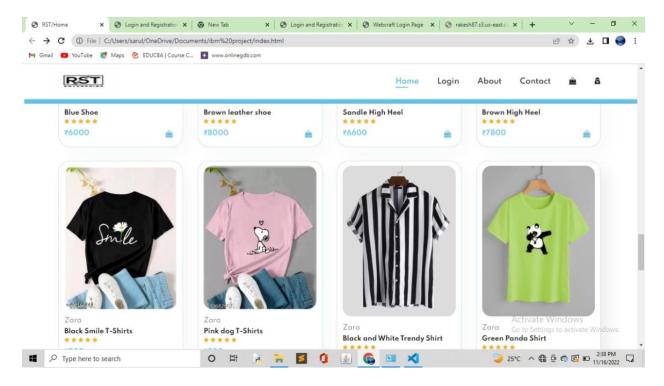
# Login page



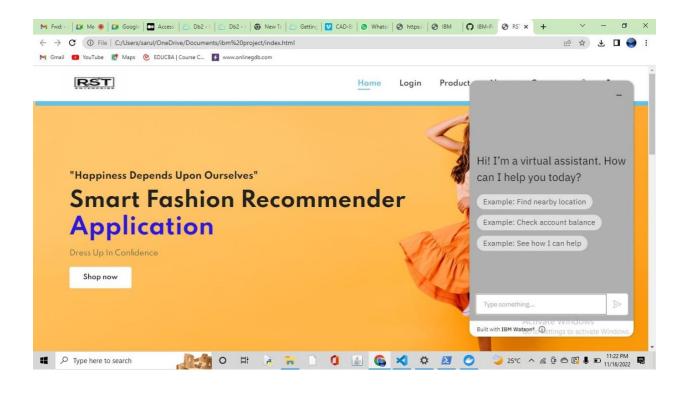
## Sign up page

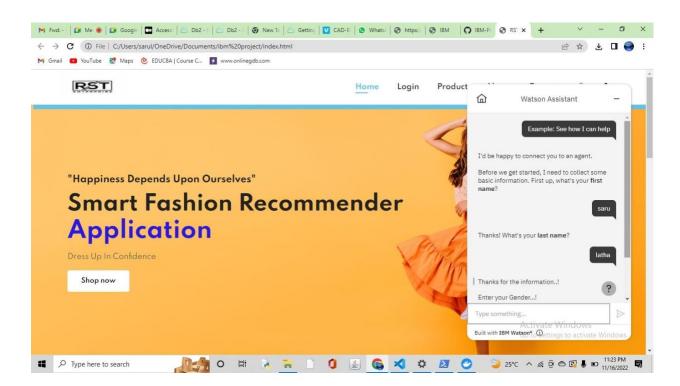


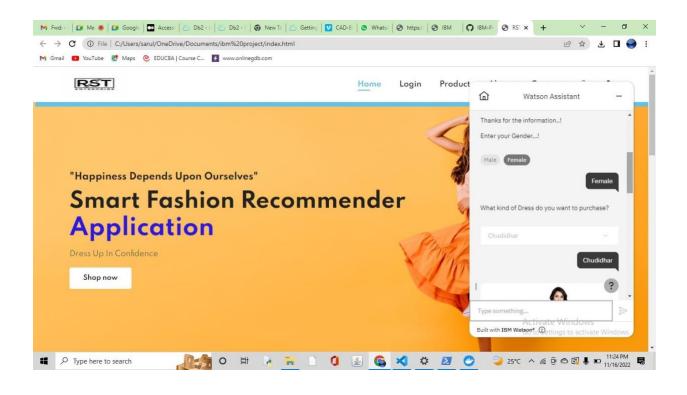
## **Products**

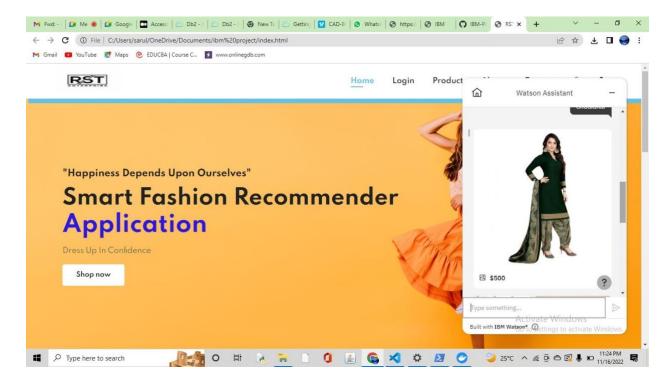


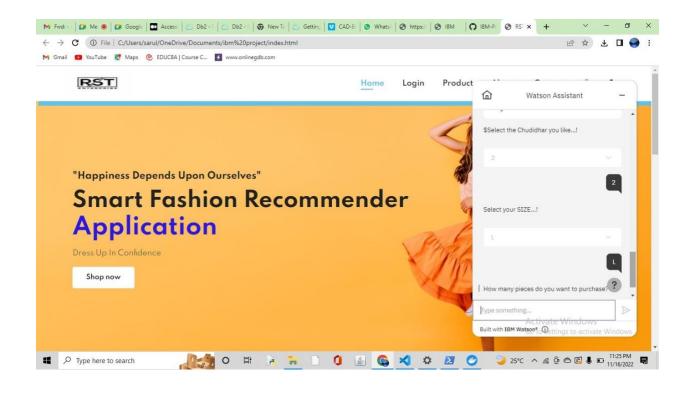
#### **Chatbot**

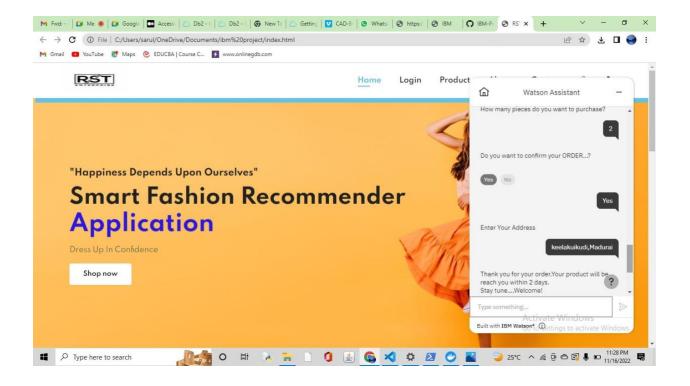












## **12.GITHUB LINK**

https://github.com/IBM-EPBL/IBM-Project-6737-1658835493