



Royal Education Society's  
**College of Computer Science and Information Technology, Latur.**

Affiliated to  
**Swami Ramanand Teerth Marathwada University, Nanded.**

**A Project Report  
on  
Online Clothing Website**

Submitted for the award of degree of  
**Bachelor of Computer Application**

**By:**

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In  
Year: 2024 – 2025

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**Project Guide**

Mr V.D Patil sir  
**HOD**

## ACKNOWLEDGEMENT

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Last but not in least we would like to thank all who helped and motivated us.

**With Sincere Thanks,**

- 1. Bachate Akshay Ganpat with signature**
- 2. Gorte Sudarshan Narsing with signature**
- 3. Deshpande Ashok Anil with signature**

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## **Formatting Rules:**

- **Bibliography Rules:**

- 1. **Books:**

- Use MLA referencing style in your book reference: MLA-(Modern Language Association)
    - In your citation, the elements should be listed in the following order:
      1. Author.
      2. Title of Book.
      3. Version,
      4. Publisher,
      5. Publication date.

### **Example:**

1. Jeffrey L. Whitten, and Lonnie D. Bentey, “Systems analysis and Design Methods”, 4th edition, Tata McGraw-Hill year 2018.

- 2. **Web references:** It should be full URL:

### **Example:**

1. [https://en.wikipedia.org/wiki/MLA\\_Style\\_Manual](https://en.wikipedia.org/wiki/MLA_Style_Manual)
2. [https://www.library.cornell.edu/sites/default/files/mla\\_style\\_revised.pdf](https://www.library.cornell.edu/sites/default/files/mla_style_revised.pdf)

- **Main Heading** - Font Size = 18, Times New Roman, Bold
- **Sub Heading** - Font Size = 16, Times New Roman, Bold
- **Contents** - Font Size = 14, Times New Roman, Align=Justify
- **Line Spacing** - 1.5”.
- **Margin** - Left Margin - 1.0cm, 1.0cm on Top, Bottom & Right – 1.0cm.
- **Single side page printing with no borders.**
- **Paper Size** - A-4.

- **Abstract :**

The Online Clothing is a web based application intended for online retailers. The main objective of this application is to make it interactive and its ease of use. It would make searching, viewing and selection of a product easier. It contains a sophisticated search engine for user's to search for products specific to their needs. The search engine provides an easy and convenient way to search for products where a user can Search for a product interactively and the search engine would refine the products available based on the user's input. The user can then view the complete specification of each product. They can also view the product reviews and also write their own reviews. The application also provides a drag and drop feature so that a user can add a product to the shopping cart by dragging the item in to the shopping cart. The main emphasis lies in providing a userfriendly search engine for effectively showing the desired results and its drag and drop behavior.

- **Introduction :**

- 1. Project Overview :**

Online cloth store is a form of electronic commerce which allows consumers to directly buy goods or services from a seller over the Internet using a web browser or a mobile app. Consumers find a product of interest by visiting the website of the retailer directly or by searching among alternative vendors using a shopping search engine, which displays the same product's availability and pricing at different e-retailers. As of 2020, customers can shop online using a range of different computers and devices, including desktop computers, laptops, tablet computers and smartphones. An online shop evokes the physical analogy of buying products or services at a regular "bricks-and-mortar" retailer or shopping center; the process is called business-to-consumer (B2C) online shopping. When an online store is set up to enable businesses to buy from another businesses, the process is called business-to-business (B2B) online shopping. A typical online store enables the customer to browse the firm's range of products and services, view photos or images of the products, along with information about the product specifications, features and prices. Online stores usually enable shoppers to use "search" features to find specific models, brands or items. Online customers must have access to the Internet and a valid method of payment in order to complete a transaction, such as a credit card, an Internet-enabled debit card, or a service such as PayPal. There are mainly four modules:

- User
- Admin

## 2. Project Plan (Gantt chart) :

Sr.no	Task Name	04-Sep	11-Oct	21-Nov	04-Dec	15- Jan
1	Requirement Gathering					
2	Planning					
3	Designing					
4	Coding					
5	Testing and Deployment					

- **Project Requirement :**

- 1. Hardware Requirement :**

- Processor: Intel i3 and above
- RAM: 2 GB and above
- Hard Disk: 160 GB or above
- Input device: keyboard, Mouse
- Output device: Monitor or LCD/LED, Printer
- LAN Network or Internet Connection

- 2. Software Requirement :**

- Technology : Java, J2EE and Servlets
- Web Technologies : JSP, HTML, JavaScript, CSS , Bootstrap
- Web Server : Tomcat , etc.
- Database : My SQL

- 3. Field Work :**

- 1. Market Research :**

- **Competitor Analysis:**

Study existing online clothing stores, their product offerings, pricing strategies, and marketing tactics. Identify key players in the market and analyze their strengths and weaknesses.

- **Target Audience:**



Define your target demographic based on age, gender, fashion preferences, and spending habits. Conduct surveys or focus groups to gather insights into their shopping behavior.

- **Trends Analysis:**

Identify current fashion trends and consumer preferences. Look at seasonal trends, popular styles, and emerging fashion movements.

## **2. Financial Analysis :**

- **Cost Estimation:**

Estimate the costs involved in starting and running an online clothing store, including website development, inventory purchase, marketing, and operations .

- **Revenue Streams:**

Explore different revenue models, such as direct sales, subscriptions, or affiliate marketing. Analyze how these can be optimized for profitability.

## **3. Case Studies :**

- **Successful Brands:**

Study case studies of successful online clothing stores to understand their journey, challenges, and strategies that led to their success.

- **Failures:**

Analyze failed online clothing stores to learn what went wrong and how to avoid similar pitfalls.

#### **4. Front End <IDE and Programming Lang.> :**

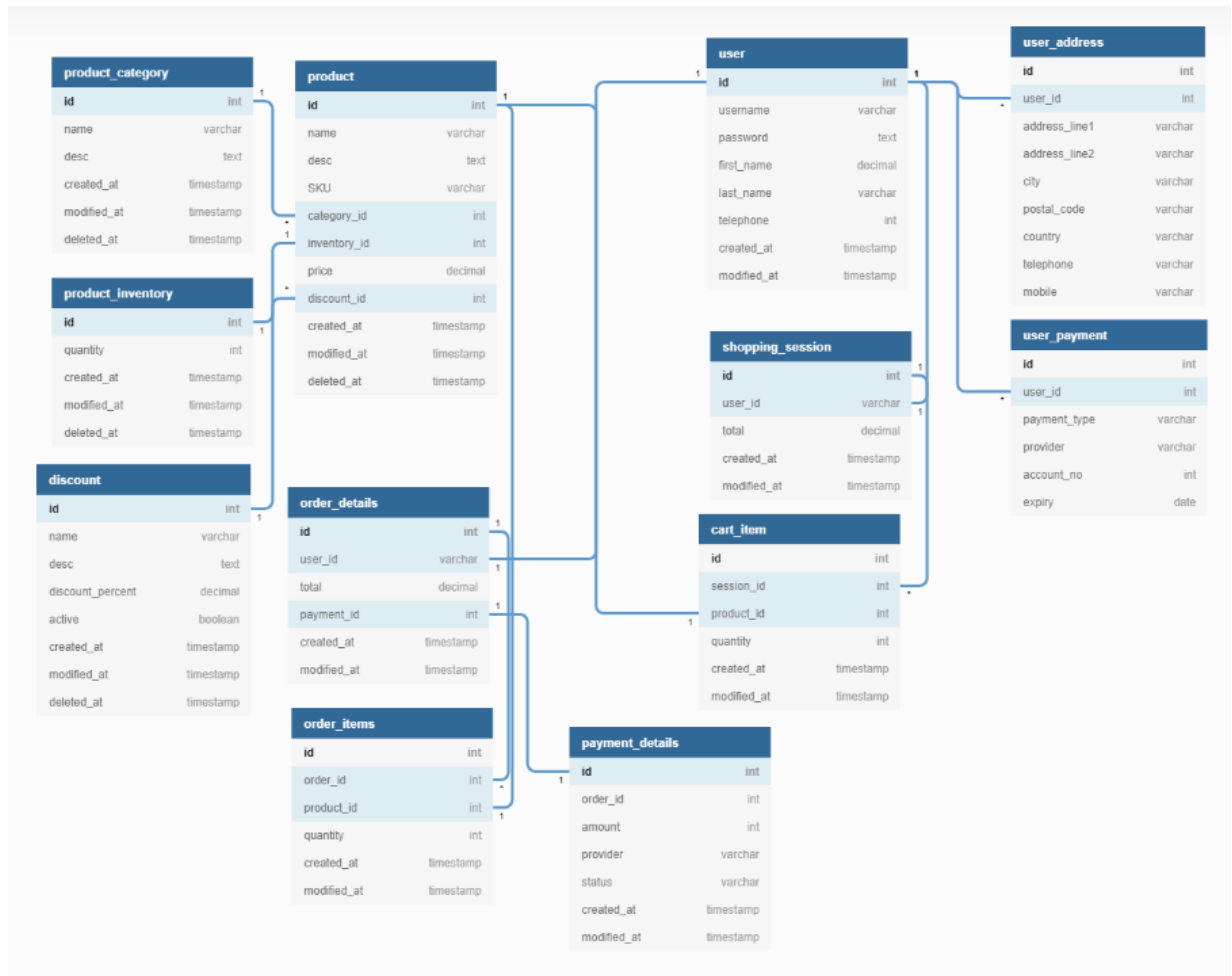
- IDE: Eclipse
- Programming Lang: JSP (Java Server Pages)
- Programming Lang: HTML, CSS, Bootstrap

#### **5. Back End <Database> :**

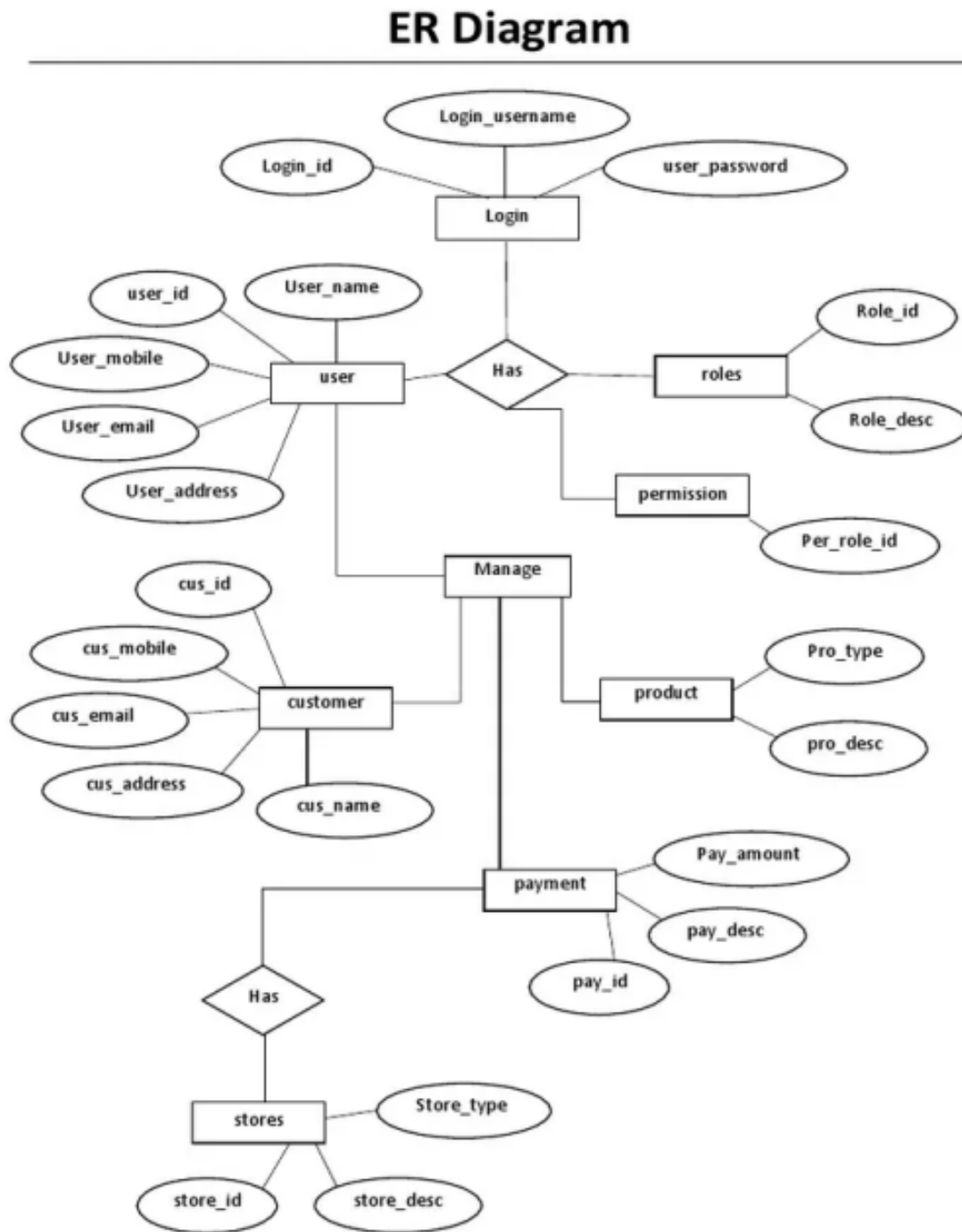
- Database: MySQL (Recommended for scalability and reliability)
- ORM: Spring JPA (Hibernate) for efficient database interactions
- Database IDE: MySQL Workbench or DBeaver for query management
- Cloud Storage (Optional): Cloudinary for storing images

- **System Design:**

# 1. Database Design (Tables Schema) :



## 2. E-R Diagram:

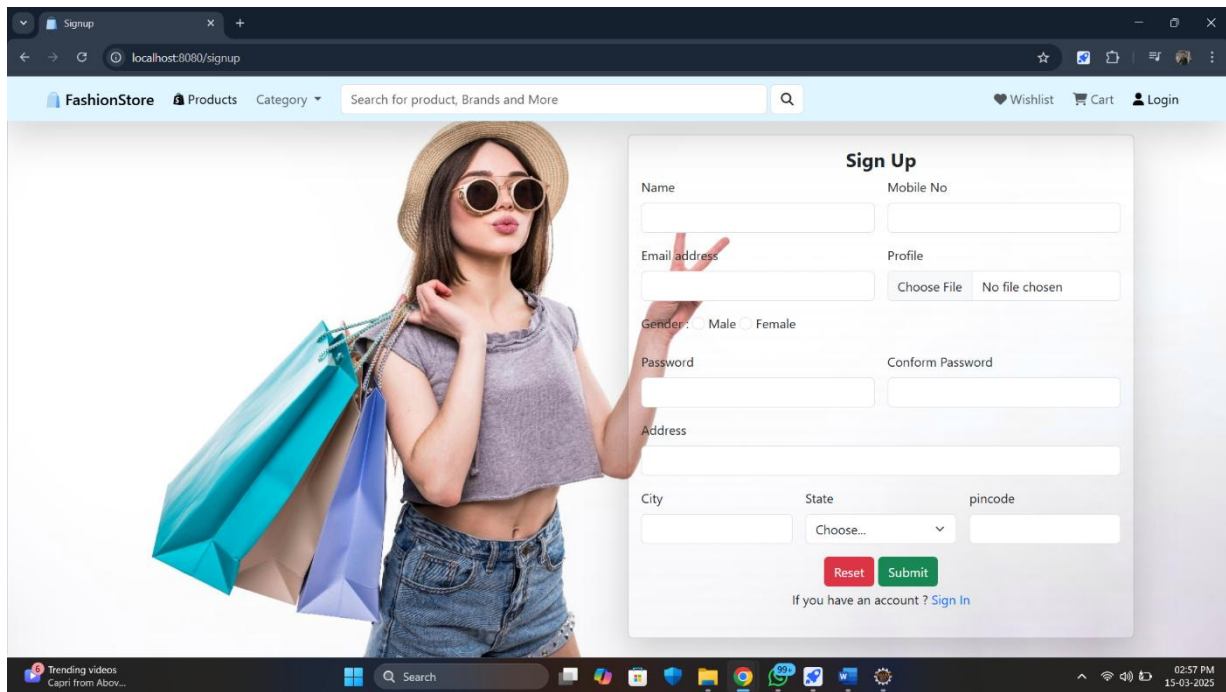


### 3. Data Flow Diagram:



- **Designing:**

1. **Signup :**



**Signup**

Name  Mobile No

Email address  Profile  No file chosen

Gender: ☐ Male ☐ Female

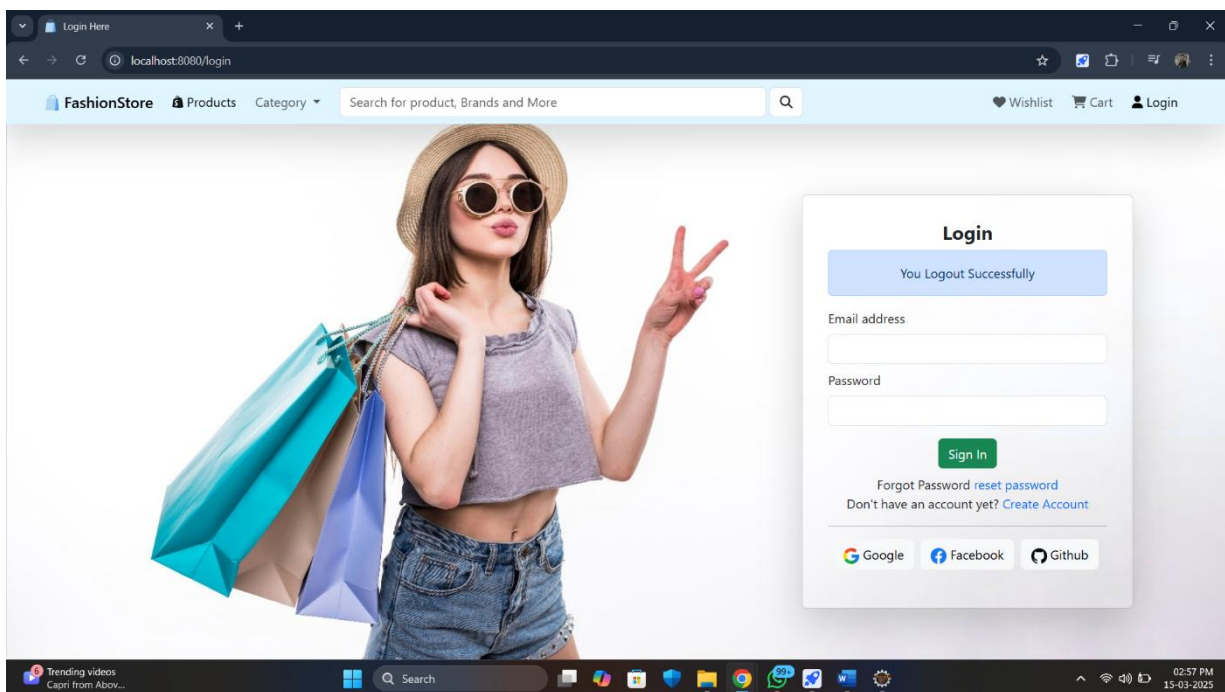
Password  Conform Password

Address

City  State  pincode

If you have an account ? [Sign In](#)

2. **Login :**



**Login**

You Logout Successfully

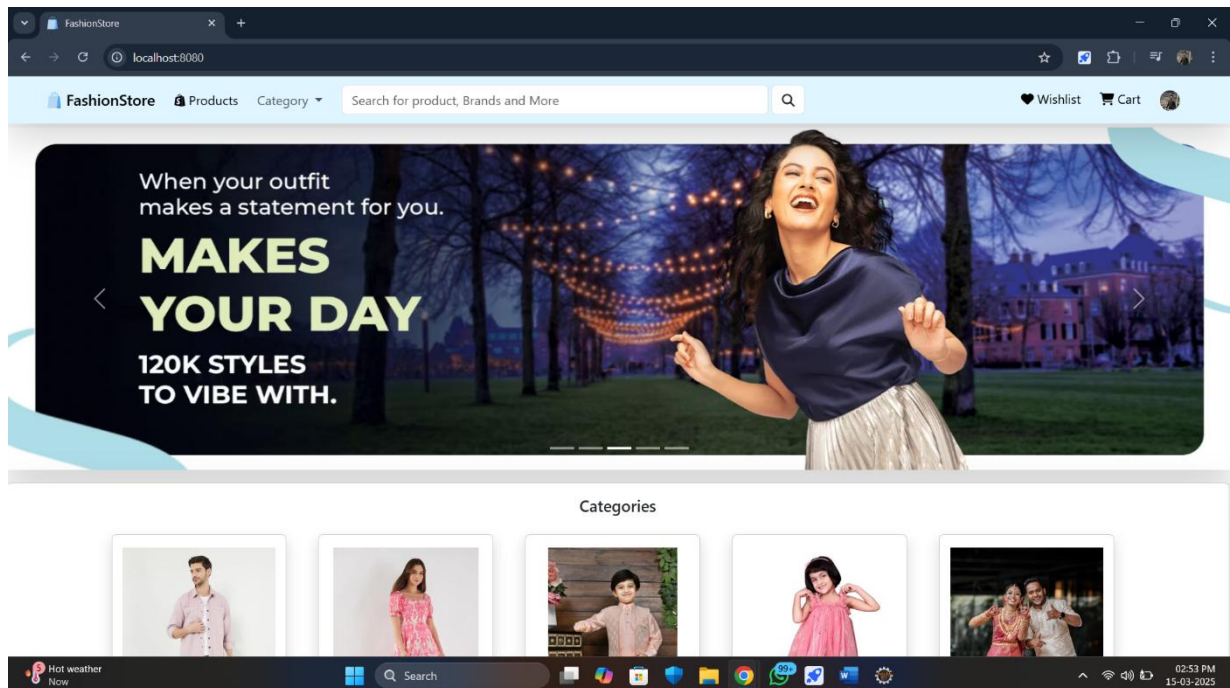
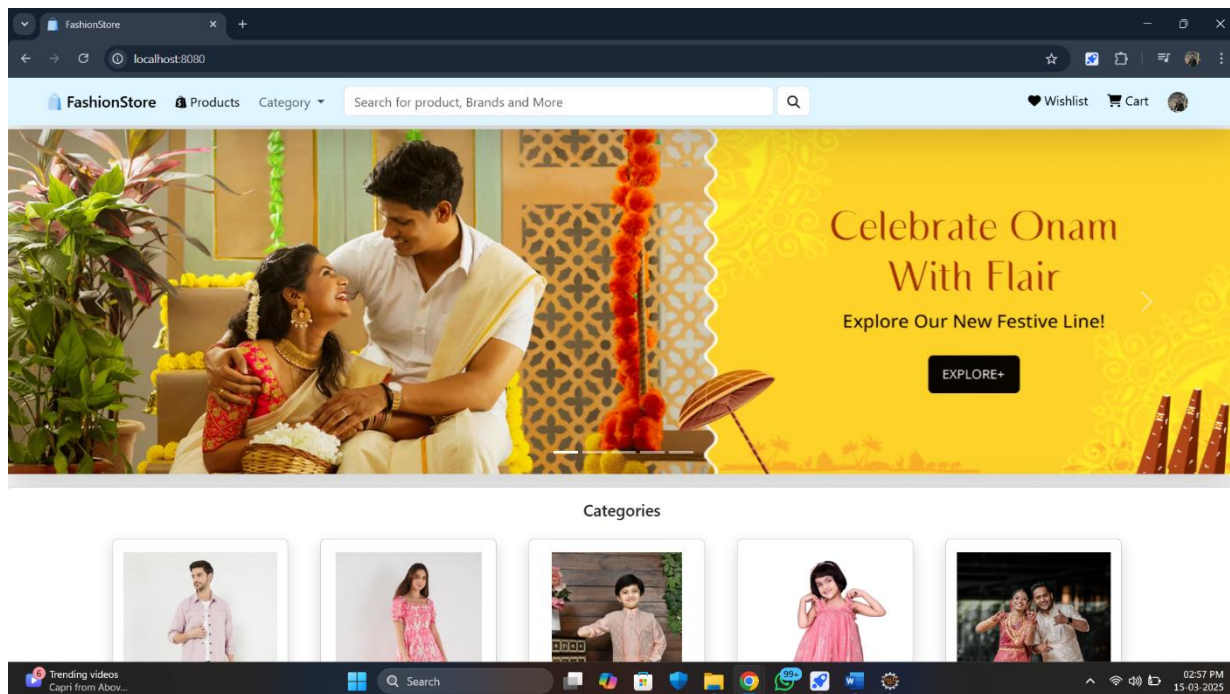
Email address

Password

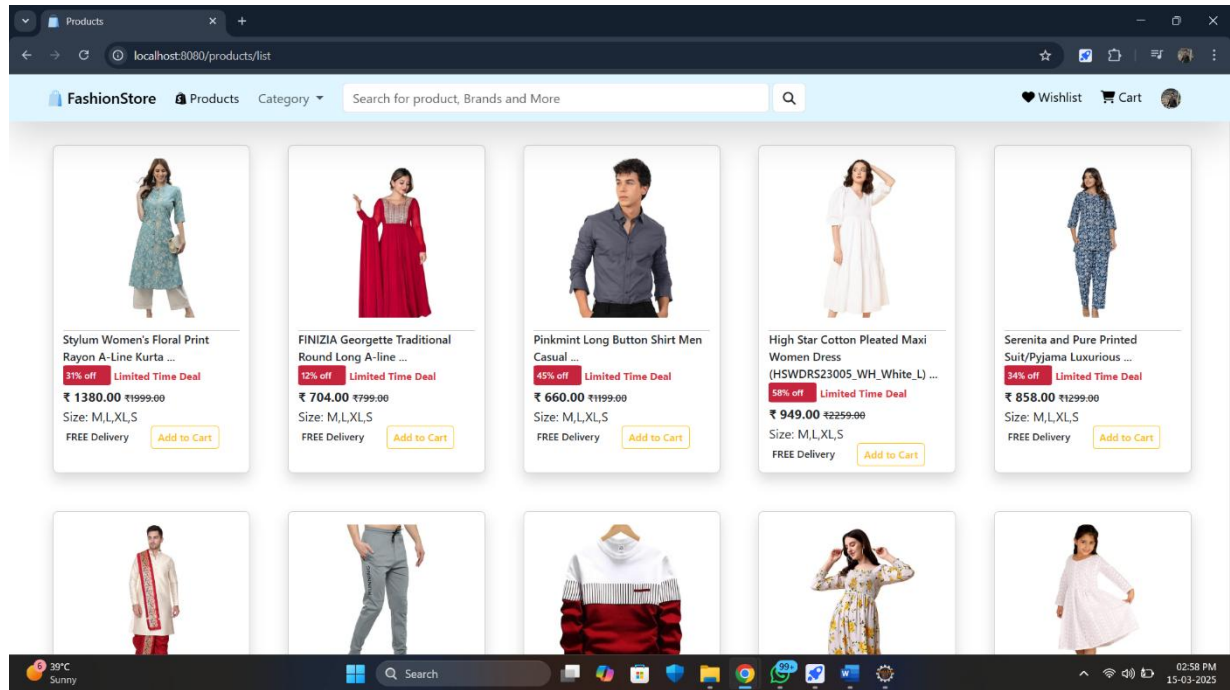
[Forgot Password](#) [reset password](#)

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

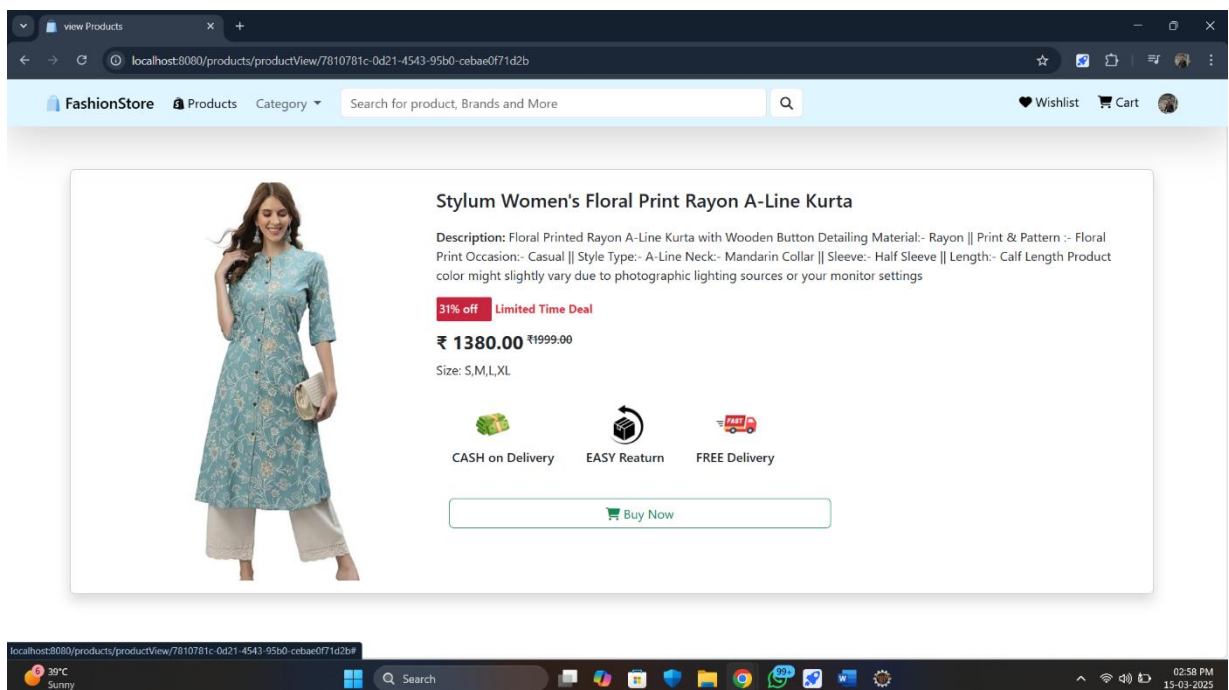
### 3. Home :



## 4. ProductsList:



## 5. Product View :





## 6. Order Details :

Order Details

localhost:8080/order?pid=7810781c-0d21-4543-95b0-cebae0f71d2b

FashionStore Products Category Search for product, Brands and More

Wishlist Cart

### Order Address

First Name Last Name

Mobile No Email address

Address City

State pincode

Choose...

### Payment Type

Price : ₹ 1380.0

Delivery Fees : **FREE Delivery**

Tax : ₹ 82.8

Total Price : ₹ 1462.8

#### Select payment Type

☐ Cash on Delivery ☐ Online Payment

Place Order

## 7. Cart :

Cart

localhost:8080/cart/viewCart/5eca9672-6003-4e92-bf17-3ad95dab70de

FashionStore Products Category Search for product, Brands and More

Wishlist Cart

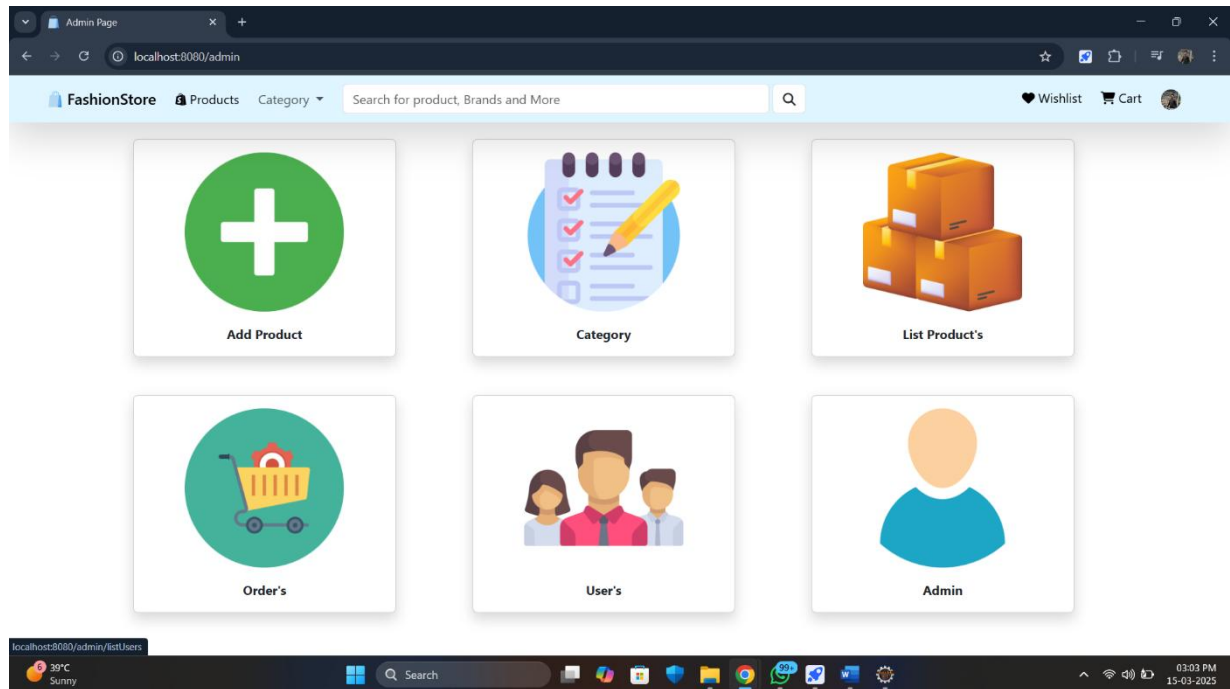
Back

### List of all Products

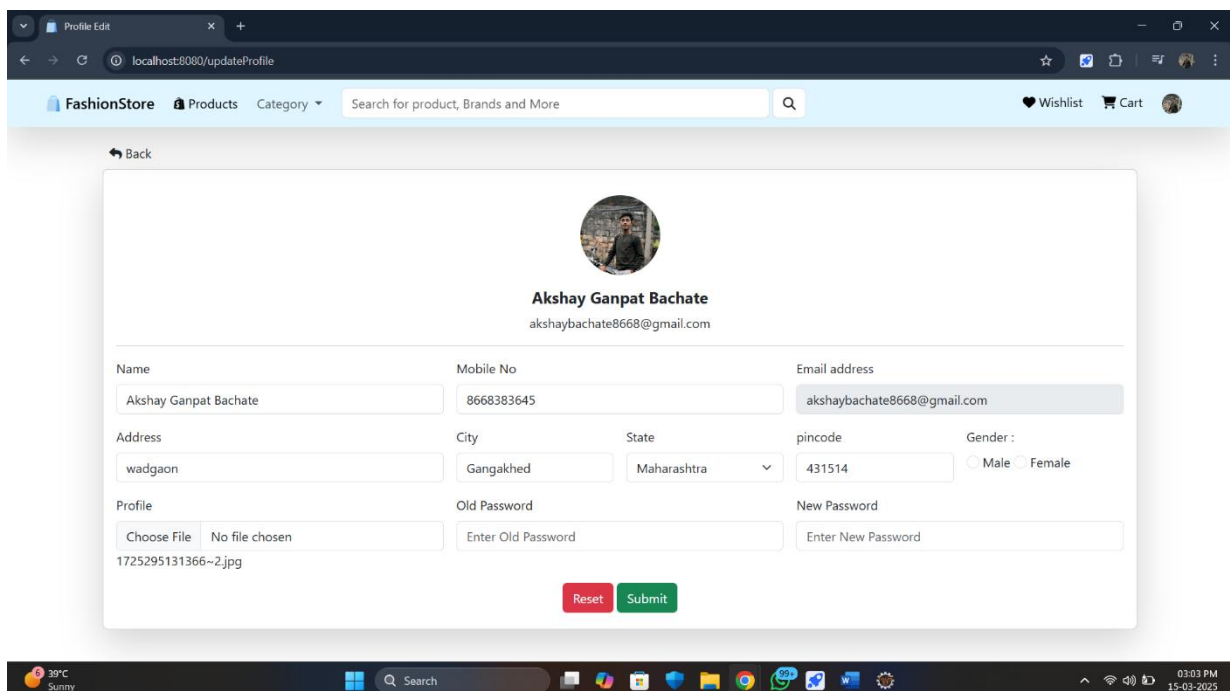
No	Image	Title	Price	Quantity	Total Price
1		Pspeaches Girls 1 Top, 1 Bottom, 1 Shrug ...	936.00	- [ 1 ] +	₹ 936.0
2		VIMAL Dryfit Lycra Tracksuit Sets Men ...	972.00	- [ 3 ] +	₹ 2916.0
3		Amazon - Men's Formal   (Slim ...	825.00	- [ 2 ] +	₹ 1650.0
4		NAINVISH for Printed Top Women Tops ...	594.00	- [ 9 ] +	₹ 5346.0
5		ELLITI Casual Night Soft Poly Digital ...	660.00	- [ 1 ] +	₹ 660.0
Total :					₹11508.0

Proceed To Payment

## 8. Admin Pannel :



## 9. Edit Profile :



## 10. My Orders :

Back

### List of Your Order's

Order Id	Image	Title	Date	Quantity	Price	Status	Action
2d4bb25a-e726-4505-8076-f82611f3a269		A To Z Cart Women's Net Embroidered Semi-Stitched Gown Jivika Gown-New	29-Oct-2024, 12:00:00 am	1	₹ 2086.08	Order Delivered	<button>Cancel</button>
5edacab4-edf8-4a62-9d13-5be1de07caab		Lymio Track Pant for Men    Track Pants    Plain Track Pant (Track-06-08)	16-Nov-2024, 12:00:00 am	1	₹ 385.84	In Progress	<button>Cancel</button>
7ef806e5-6e19-4afa-9130-b544637f567d		Pspeaches Girls 1 Top, 1 Bottom, 1 Shrug	27-Sept-2024, 12:00:00 am	1	₹ 992.16	Order Cancelled	<button>Cancel</button>
9e22840b-737e-4317-9aa6-4a95caab9308		ELLITI Men's Casual Summer Night dress Soft Cotton Poly Lycra Digital Printed Casual Sleepwear & Lounge(Lounge) Wear	07-Oct-2024, 12:00:00 am	1	₹ 699.6	Order Cancelled	<button>Cancel</button>
b9762570-056b-44b9-		Fashion2wear Women's Georgette Floral	08-Dec-2024,	1	₹ 943.4	In Progress	<button>Cancel</button>

39°C Sunny 03:04 PM 15-03-2025

## 11. Users List :

Back

### List of all Products

No	Image	Name	Email	Mobile	Address	City	State	Role	Status	Action
1		Akshay Ganpat Bachate	akshaybachate8668@gmail.com	8668383645	wadgaon	Gangakhed,431514	Maharashtra	ADMIN	true	<button>Enable</button> <button>Disable</button>
2		Akshay Ganpat Bachate	akshaybachate@gmail.com	08668383645	wadgaon	Gangakhed,431514	Maharashtra	USER	true	<button>Enable</button> <button>Disable</button>

39°C Sunny 03:14 PM 15-03-2025

- **Coding :**

- 1. Signup :**

```
<% @page import="com.Helper.Message"%>
<% @ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
    <% @page errorPage="error.jsp" %>

<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Signup</title>
<% @include file="base.jsp"%>
</head>
<% @include file="navbar.jsp"%>

<body style="margin-top:2em">
<div class="container mt-2">
<div class="row">
<div class="col-md-6 offset-md-6 mt-3">
<%--card Start Here --%>
<div class="card bg-transparent bg-gradient shadow-lg rounded">
    <div class="card-body">
        <%--Message --%>
        <%Message msg=(Message)session.getAttribute("signupMsg");
            if(msg!=null)
            {
```

```

%>
<div class=" text-center fw-bold <%=msg.getType()%>" role="alert">

<form class="row g-3" action="/saveUser" method="post"
enctype="multipart/form-data">
  <div class="col-md-6">
    <label for="name" class="form-label">Name</label>
    <input type="text" name="name" class="form-control"
required="required" id="name" aria-describedby="name">
  </div>
  <div class="col-md-6">
    <label for="number" class="form-label">Mobile No</label>
    <input type="text" name="mobile" required="required" class="form-
control" id="mobile" aria-describedby="mobile">
      <option>Chandigarh (UT)</option>
      <option>Dadra & Nagar Haveli and Daman & Diu
  <div class="col-md-4">
    <label for="pincode" class="form-label">pincode</label>
    <input type="text" name="pincode" class="form-control" id="pincode"
required="required">
  </div>
  <div class="mb-1 text-center">
    <button type="reset" class="btn btn-danger">Reset</button>
    <button type="submit" class="btn btn-success">Submit</button>
    <p class="pt-1">If you have an account ? <a href="/login" style="text-
decoration: none;"> Sign In</a></P> </div>
</body>
</html>

```

## 2. Login :

```
<% @page import="com.Helper.Message"%>
<% @ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
    <% @page errorPage="error.jsp" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Login Here</title>
<% @include file="base.jsp"%>
</head>
<% @include file="navbar.jsp"%>
<body style="margin-top:2em">
<div class="card col-md-12">

    <%
    Message msg=(Message)session.getAttribute("Login");
    if(msg!=null)
    {
    %>
        <div class="alert <%=msg.getType()%> text-center" role="alert">
        <%=msg.getContent() %></div>
    <%
        }
    session.removeAttribute("Login");
    %>
        <form action="/do_login" method="post">
        <div class="mb-2">
```

```

    <label      for="exampleInputEmail1"      class="form-label">Email
address</label>

    <input type="email" name="email" required="required" class="form-
control" id="exampleInputEmail1" aria-describedby="emailHelp">

</div>

<div class="mb-3">

    <label      for="exampleInputPassword1"      class="form-
label">Password</label>

    <input type="password" name="password" required="required"
class="form-control" id="exampleInputPassword1">

<hr>

<div class="mb-3 text-center">

    <a class="btn btn-light me-1" href="/oauth2/authorization/google"> Google</a>

    <a      class="btn      btn-light      me-1"
href="/oauth2/authorization/facebook"> Facebook</a>

    <a class="btn btn-light me-1" href="/oauth2/authorization/github"> Github</a>

</div>

</form>

</div>

</div>

</div>

</div>

</div>

</body>

</html>

```

### 3. Home :

```
<% @ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<% @page errorPage="error.jsp" %>

<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>FashionStore</title>
<% @include file="base.jsp" %>

</head>
<body>
<% @include file="navbar.jsp" %>
<%-- Slider --%>
<div class="shadow-lg rounded" style="margin-top: 4em">
<div id="carouselExampleIndicators" class="carousel slide bg-dark" data-
bs-ride="carousel">
    <div class="carousel-indicators">
        <button type="button" data-bs-target="#carouselExampleIndicators"
data-bs-slide-to="0" class="active" aria-current="true" aria-label="Slide
1"></button>
        <button type="button" data-bs-target="#carouselExampleIndicators"
data-bs-slide-to="1" aria-label="Slide 2"></button>
        <button type="button" data-bs-target="#carouselExampleIndicators"
data-bs-slide-to="4" aria-label="Slide 5"></button>
    </div>
    <div class="carousel-inner">
```



```

<div class="carousel-item ">
  <a href="/products/categoryLoad/men">
    
  </a>
</div>
<div class="carousel-item ">
  <a href="/products/categoryLoad/women">    </a>
</div>
<div class="carousel-item ">
  <a href="/products/categoryLoad/women">
    
  </div>
<%--Category 4 --%>
  <div class="card col-md-2 m-3 ms-4 shadow">
    <a href="/products/categoryLoad/Girl" class="text-decoration-
none text-dark">
      <div class="d-flex justify-content-center">
        
        <p class="text-center fw-bold">Traditional</p>
      </div>
    </div>
  </body>
<%-- Footer Start Here --%>
<footer>
<% @include file="footer.jsp" %>
</footer>
</html>

```

#### 4. Products :

```
<% @page import="com.Helper.Message"%>
<% @page import="java.util.Collections"%>
<% @page import="com.Entity.Product"%>
<% @page import="java.util.List"%>
<% @ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<% @page errorPage="error.jsp" %>

<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Products</title>
</head>
<% @include file="base.jsp" %>
<body>
<% @include file="navbar.jsp" %>
<div class="row col-md-12 mt-5">
<div class="card me-0 shadow-lg rounded" style=" margin-left: 10px">
    <div class="card-body ms-3">

        <div class="row ">
            <!--Products Listing --%>
            <%
                Message msg=(Message)session.getAttribute("Products");
                if(msg!=null)
                {
            %>
```

```

        <div class="alert" <%=msg.getType()%> text-center fw-bold"
role="alert"><%=msg.getContent()%> </div>

        <%
        }
        session.removeAttribute("Products");

        </div>

        <hr style="margin: 0em">

        <%-- Div Offer --%>

        <div class="d-flex">

        <div style="background-color: #C7253E ;width: 60px;border-radius:
7%;height: 25px">

        <p class="text-light m-1" style="font-weight: 600;font-size:
0.7rem"><%=product.getpDiscount()%>% off</p>

        <div class="m-0">

        <p class="m-1" style="font-weight: 500;font-size: 0.8rem ;text-
decoration: line-through;"> ₹<%=product.getpPrize()%>.00</p>

        </div>

        </div>

        <p class="m-0">Size: M,L,XL,S </p>

        <%--Buy Div--%>

        <div class="d-flex" >

        </div>

</body></html>

```

## 5. Admin Pannel :

```
<% @page import="com.Helper.Message"%>
<% @ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<% @page errorPage="error.jsp" %>

<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Admin Page</title>
</head>
<% @include file="base.jsp" %>
<body>
<% @include file="navbar.jsp" %>
<% @include file="addProductModal.jsp"%>
<div class="container" style="margin-top: 5em;">
    <div class="row">
        <!-- Msg Model -->
        <%
            Message msg= (Message)session.getAttribute("productMsg");
            if(msg!=null)
            {
                %>
                <div class="alert text-center <%=msg.getType()%>" role="alert">
<%=msg.getContent() %></div>
                <%
                    session.removeAttribute("productMsg");
```

```

<div class="card col-md-3 m-5 mb-0 shadow">
    <a href="/admin/listOrders" class="text-
decoration-none text-dark">
        <div class="d-flex justify-content-center">
            
        </div>
        <p class="text-center fw-bold">User's</p>
    </a>
</div>
<div class="card col-md-3 m-5 mb-0 shadow">
    <a href="#" class="text-decoration-none text-
dark">
        <div class="d-flex justify-content-center">
            
        </div>
        <p class="text-center fw-
bold">Admin</p>
    </a>
</div><body>
</html>

```

- **Future scope of project:**

The future of e-commerce websites lies in personalization, AI integration, immersive experiences, and sustainable practices, with a focus on mobile optimization and seamless customer journeys.

Here's a more detailed look at the key trends and opportunities:

- **Personalized Shopping Experiences:**

AI will be used to analyze customer data and provide tailored product recommendations, pricing, and even shopping experiences.

- **AI-Powered Chatbots:**

AI-powered chatbots will offer 24/7 customer support, answer questions, and guide customers through the purchasing process.

- **Predictive Analytics:**

AI will help businesses predict customer behavior and optimize inventory management, promotions, and marketing efforts.

- **Interactive Product Demonstrations:**

E-commerce websites will feature interactive product demonstrations, 360-degree product views, and virtual product tours.

### 3. Mobile Optimization and Omnichannel Commerce:

- **Mobile-First Approach:**

With the majority of internet traffic coming from mobile devices, e-commerce websites must be optimized for mobile devices and offer a seamless mobile shopping experience.

- **Eco-Friendly Options:**

Customers are increasingly seeking sustainable and eco-friendly products and packaging, so e-commerce websites will need to offer these options and promote their sustainability efforts.

- **Conclusion:**

This online clothing website project successfully bridges the gap between technology and fashion retail, offering a platform that is not only user-friendly and secure but also adaptable to future needs. It provides a foundation upon which additional features and innovations can be built, ensuring its relevance in the ever-evolving e-commerce landscape.

## • Bibliography :

### ➤ Books:

- Bloch, Joshua. Effective Java. 3rd ed., Addison-Wesley, 2018.
- Freeman, Eric, and Elisabeth Robson. Head First Design Patterns. 2nd ed., O'Reilly Media, 2020.

### ➤ Documentation:

- "Spring Boot Reference Documentation." Spring Framework, <https://docs.spring.io/spring-boot/docs/current/reference/htmlsingle/>.
- "Angular Documentation." Angular, <https://angular.io/docs>.
- "Stripe API Reference." Stripe Developer Documentation, <https://stripe.com/docs/api>.

### ➤ Websites:

- W3Schools. "HTML, CSS, JavaScript Tutorials." <https://www.w3schools.com/>.
- MDN Web Docs. "JavaScript Reference." Mozilla Foundation, <https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference>.
- Bootstrap. "Bootstrap Documentation." <https://getbootstrap.com/docs/5.0/getting-started/introduction/>.