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# **Software Requirements Specification**

**for**

## **Ecommerce clothing website**

**Prepared by**

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# **1. Introduction**

## **1.1 Purpose**

In this E-Commerce-Shopping .NET & React application you can be the enduser using sign in/signup and also you can make a purchase of any items according to your demand. An Ecommerce business person can customize according to their demands and also add new features for their requirements.

## **1.2 Document Conventions**

This document uses standard 12-point font for easy reading. Headings are formatted in bold to distinguish between different sections. Requirement priorities are indicated using a priority scheme (e.g., high, medium, low). Each requirement statement is uniquely identified with a sequence number for traceability and referencing purposes.

## **1.3 Intended Audience and Reading Suggestions**

This document is intended for developers, project managers, marketing staff, users, testers, and documentation writers. The SRS contains an overview of the product, functional and non-functional requirements, and external interface requirements. It is recommended to read the sections in the following order:

- ☐ Introduction
- ☐ Overall Description
- ☐ System Features
- ☐ External Interface Requirements
- ☐ Other Non-functional Requirements
- ☐ Other Requirements

## **1.4 Project Scope**

The E-Commerce-Shopping .NET & React application is an e-commerce platform for buying clothes for men, women, and children. The platform includes features such as user registration and authentication, product catalog, shopping cart, order management, payment processing, and customer support.

## 1.5 References

<https://uicookies.com/free-fashion-website-templates/>

<https://www.freepik.com/free-photos-vectors/assets>

## 2. Overall Description

### 2.1 Product Perspective

The E-Commerce-Shopping .NET & React application is a standalone e-commerce platform for buying clothes for men, women, and children. The application will be developed using .NET and React technologies.

### 2.2 Product Features

- ☐ Login-Logout, By continuing privacy policy.
- ☐ Add to cart
- ☐ Remove from cart
- ☐ Popular in women
- ☐ Responsive for laptop, tablet, mobile
- ☐ Offer of Product
- ☐ New Collection show
- ☐ News latter
- ☐ Billing of the product
- ☐ Show office location direct in goggle map
- ☐ All items fetching from admin panel
- ☐ Explore more if you show all 36 products
- ☐ Products sort by product name
- ☐ Promo code useable

### 2.3 User Classes and Characteristics

The E-Commerce-Shopping .NET & React application has the following user classes:

1. Guest User: A user who has not registered or logged in to the platform.
2. Registered User: A user who has registered on the platform but has not logged in.

3. **Logged-in User:** A user who has registered and logged in to the platform.

## 2.4 Operating Environment

The E-Commerce-Shopping .NET & React application will be developed and tested on the following operating systems:

- ☐ Windows 10 & 11
- ☐ macOS
- ☐ Linux

## 2.5 Design and Implementation Constraints

- ☐ **Web Browsers:** The system is designed to be compatible with modern web browsers, including Google Chrome, Mozilla Firefox, Microsoft Edge, and Apple Safari.
- ☐ **Programming Languages:** The web application is primarily developed using .Net & React.
- ☐ **Front-End Framework:** HTML, CSS, Java script, is utilized for building the user interface.

## 2.6 User Documentation

The E-Commerce-Shopping .NET & React application will include comprehensive user documentation, including a user manual and help files.

## 2.7 Assumptions and Dependencies

### Assumptions :-

- ☐ **Internet Connectivity:** It is assumed that end-users have access to a stable internet connection to access the system.
- ☐ **Device Compatibility:** Assume that users have Laptop, Tablet, Mobile phone etc, devices that are compatible with the app's minimum system requirements.

- ❑ **Device Compatibility:** Assume that users have Android devices that are compatible with the app's minimum system requirements.
- ❑ **Payment Methods:** Assume that users have access to digital payment methods such as credit/debit cards, cash on delivery, or other preferred payment options.

### **Dependencies :-**

- ❑ **Backend Services:** The app will depend on backend services to handle user authentication, product catalog management, order processing, and payment processing. These services should be reliable and scalable.
- ❑ **Database:** Depend on a database system to store user profiles, order history, and product information. Consider using a scalable database solution to handle potential growth.
- ❑ **UI/UX Design:** Rely on design assets and guidelines for creating a user-friendly interface. Collaborate with designers to ensure a visually appealing and intuitive app.
- ❑ **Development Tools:** Depend on Visual Studio, VS code, Mongo DB Atlas Database and relevant libraries and frameworks for app development.

## **3. System Features**

- ❑ User Registration and Authentication
- ❑ Product Catalog
- ❑ Shopping Cart
- ❑ Order Management
- ❑ Payment Processing
- ❑ Customer Support

### **3.1 User Registration and Authentication**

- ☐ The user registration process will include the collection of user information, such as name, email address, and password.
- ☐ The user authentication process will involve verifying the user's email address and password.

### **3.2 Product Catalog**

- ☐ The product catalog will display a list of available products, including product images, names, and prices.
- ☐ Users will be able to search for products by keyword, category, or brand

### **3.3 Shopping Cart**

- ☐ The shopping cart will allow users to add products to their cart.
- ☐ Users will be able to view the contents of their shopping cart, including product images, names, prices, and quantities.
- ☐ Users will be able to update the quantities of products in their shopping cart.
- ☐ Users will be able to remove products from their shopping cart.

### **3.4 Order Management**

- ☐ Users will be able to create an order by providing their shipping address and payment information.
- ☐ Users will be able to view their order history, including order details, status, and tracking information.

### **3.5 Payment Processing**

- ☐ The payment processing system will support multiple payment methods, such as credit cards, debit cards, and PayPal.
- ☐ The payment processing system will handle secure transactions and protect user data.

### **3.6 Customer Support**

- ☐ The customer support system will include a contact form for users to submit inquiries and feedback.
- ☐ The customer support system will provide a FAQ section for common questions and answers.
- ☐ External Interface Requirements

## **4. External Interface Requirements**

### **4.1 User Interfaces**

- ☐ The user interface will be intuitive and user-friendly, with clear navigation and search options.
- ☐ The user interface will be responsive and compatible with various devices, including desktops, laptops, tablets, and smartphones.

### **4.2 Hardware Interfaces**

- ☐ The hardware interface will include a computer or device with an Internet connection for accessing the platform.

### **4.3 Software Interfaces**

- ☐ The software interface will include a .NET backend for server-side processing and data storage.
- ☐ The software interface will include a React frontend for client-side processing and rendering.

### **4.4 Communications Interfaces**

- ☐ The communications interface will include HTTPS for secure communication between the client and server.



## 5. Other Nonfunctional Requirements

### 5.1 Performance Requirements

- ☐ The application will have a response time of less than 2 seconds for 95% of user requests.
- ☐ The application will be able to handle a peak load of 1000 concurrent users.

### 5.2 Safety Requirements

- ☐ The application will protect user data by encrypting passwords and other sensitive information.
- ☐ The application Based on the given requirements, we can create a detailed system design document for the E-Commerce-Shopping .NET & React application.
- ☐ User Registration and Authentication:
  1. The user registration process will be handled using a registration form that collects user information, such as name, email address, and password.
  2. The user authentication process will be handled using a login form that verifies the user's email address and password.
  3. The application will use JWT tokens for secure authentication and authorization.
- ☐ Product Catalog:
  1. The product catalog will be displayed using a grid layout that includes product images, names, and prices.
  2. Users will be able to search for products using a search bar with keyword, category, and brand filters.
  3. The application will use a RESTful API to fetch product data from the server.
- ☐ Shopping Cart:
  1. The shopping cart will be stored in the browser's local storage or session storage.
  2. Users will be able to add, update, and remove products from their shopping cart.
  3. The application will use a RESTful API to update the shopping cart data on the server.

- **Order Management:**
  1. Users will be able to create an order by providing their shipping address and payment information.
  2. The order management system will use a RESTful API to submit the order data to the server.
  3. Users will be able to view their order history, including order details, status, and tracking information.
- **Payment Processing:**
  1. The payment processing system will support multiple payment methods, such as credit cards, debit cards, and PayPal.
  2. The payment processing system will use a secure payment gateway for processing transactions.
- **Customer Support:**
  1. The customer support system will include a contact form for users to submit inquiries and feedback.
  2. The customer support system will provide a FAQ section for common questions and answers.
- **User Interface:**
  1. The user interface will be designed using React components and a responsive layout.
  2. The user interface will include navigation menus, search bars, and product detail pages.
- **Hardware Interface:**
  1. The hardware interface will include a computer or device with an Internet connection for accessing the platform.

### **5.3 Security Requirements**

- Strong passwords
- Terms privacy policy.

## 5.4 Software Quality Attributes

- **Reliability:** Ensures the website is consistently available and performs reliably without unexpected downtime or errors.
- **Usability:** Provides an intuitive and easy-to-navigate interface, enabling users to browse, search, and purchase items effortlessly.
- **Performance:** Delivers fast loading times and responsive interactions, even during peak traffic periods, ensuring a smooth user experience.
- **Security:** Protects user data and transactions with robust encryption, secure authentication, and compliance with privacy regulations.
- **Scalability:** Accommodates increasing numbers of users and transactions without compromising performance or reliability.
- **Compatibility:** Works seamlessly across various devices and browsers, providing a consistent experience for all users.
- **Maintainability:** Facilitates efficient updates, bug fixes, and enhancements to the website's codebase, ensuring long-term sustainability.
- **Accessibility:** Adheres to accessibility standards to ensure equal access to all users, including those with disabilities.
- **Interoperability:** Integrates smoothly with external systems and services, such as payment gateways and inventory management systems.
- **User Experience (UX):** Prioritizes user satisfaction with engaging interfaces, personalized recommendations, and streamlined workflows.

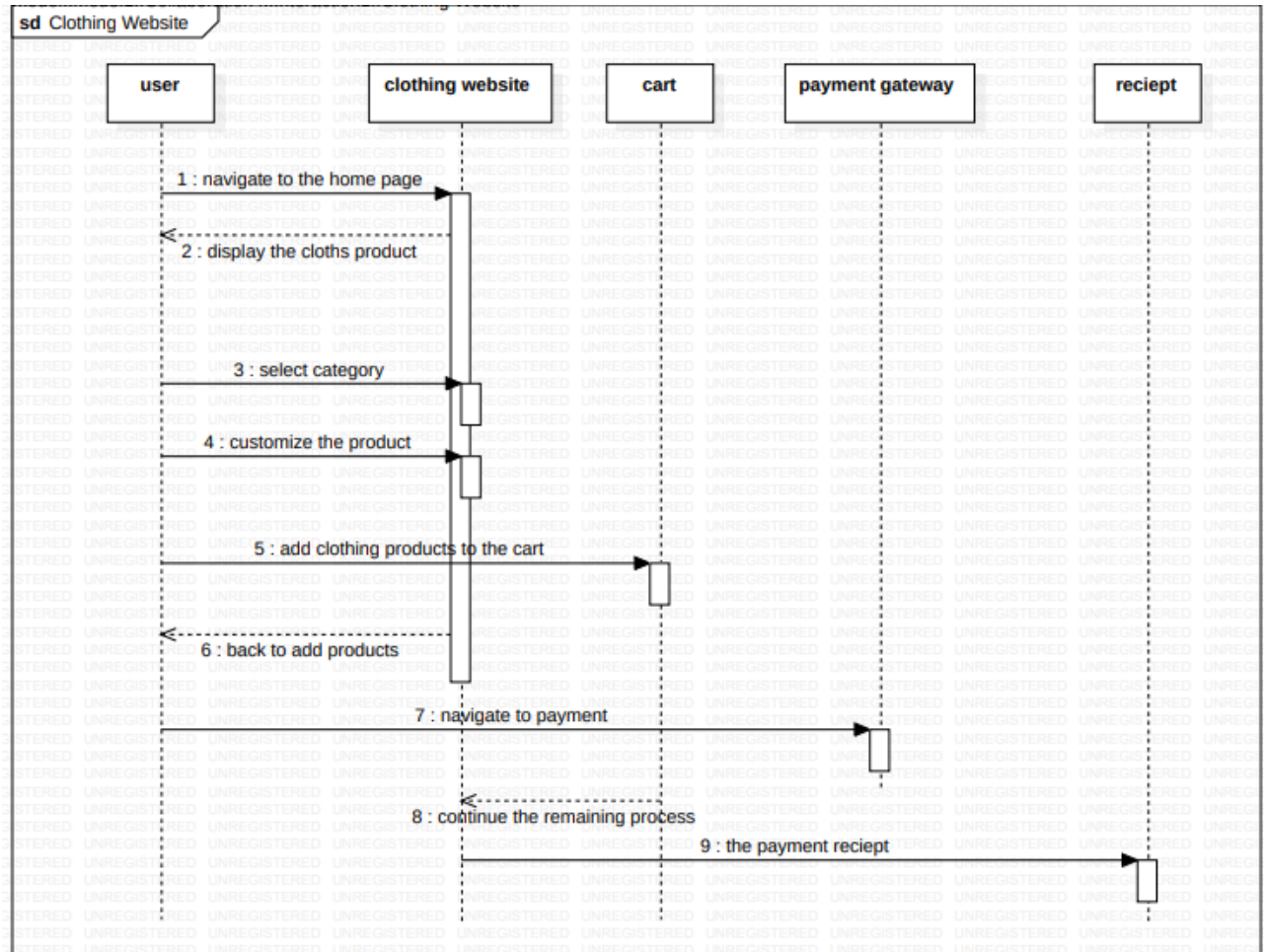
## 6. Other Requirements

### Appendix A: Glossary

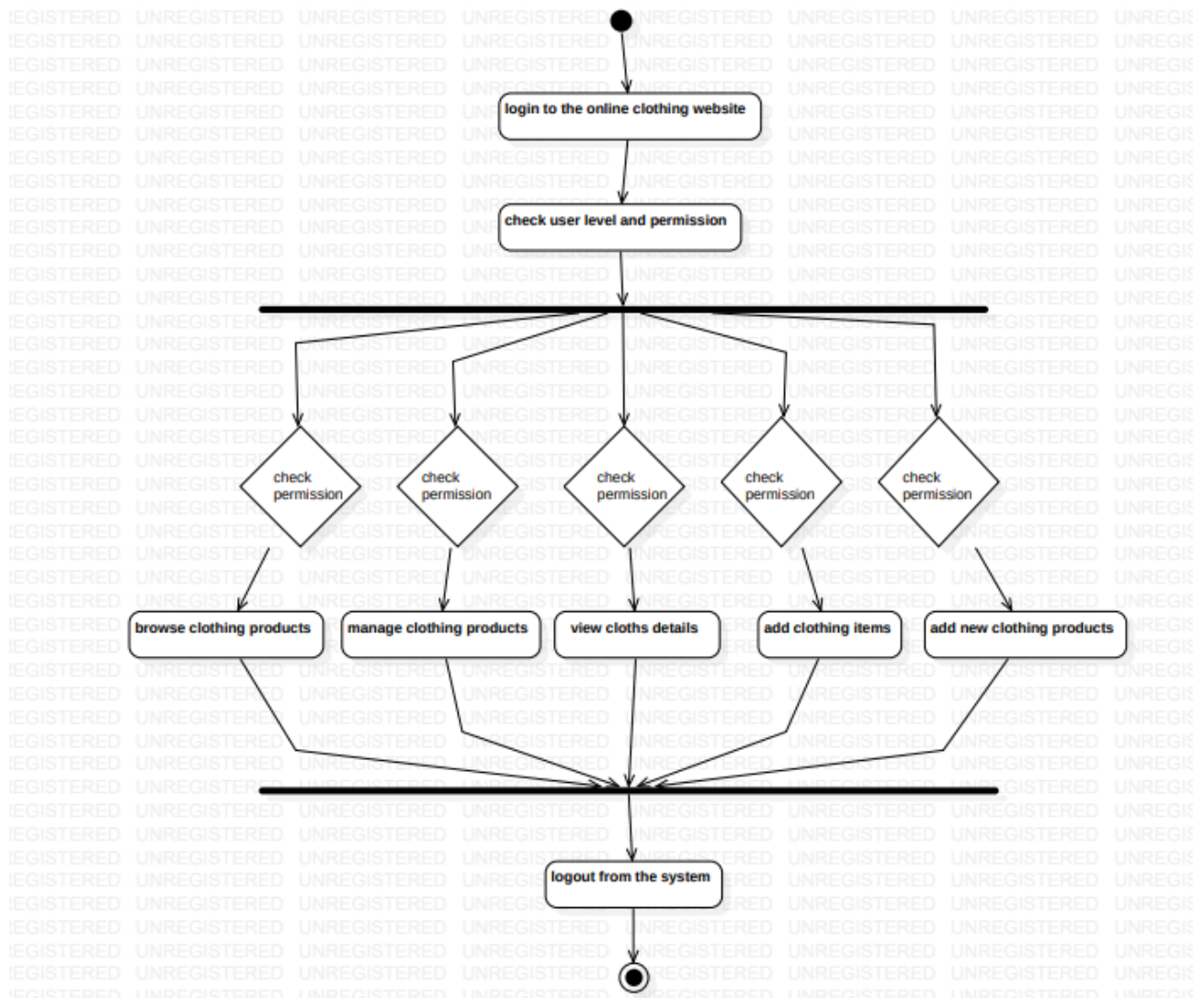
- **E-commerce:** Electronic commerce, the buying and selling of goods and services over the internet.
- **Terms of Service:** Legal agreements between a service provider and a person who wants to use that service.
- **Privacy Policy:** A statement or legal document that discloses how a company gathers, uses, discloses, and manages a customer's data.

# Appendix B: Analysis Models

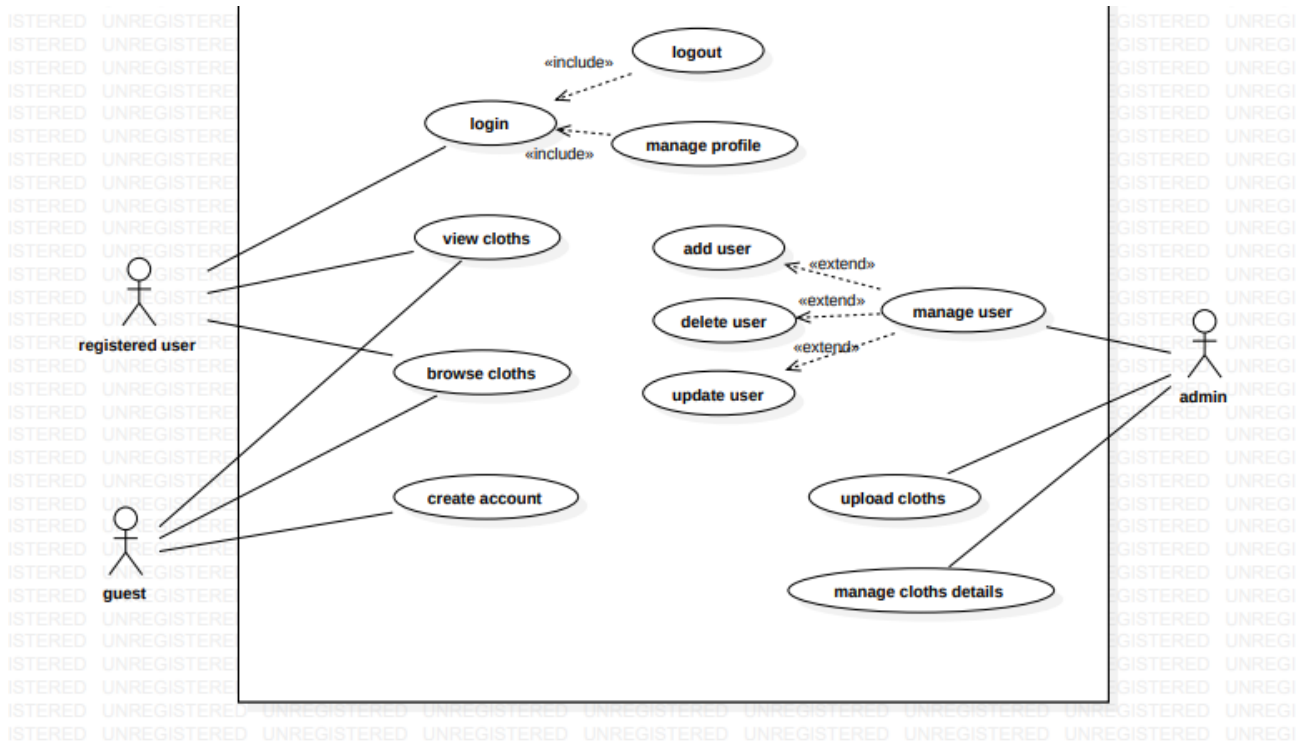
## Sequence Diagram :



## Activity Diagram :

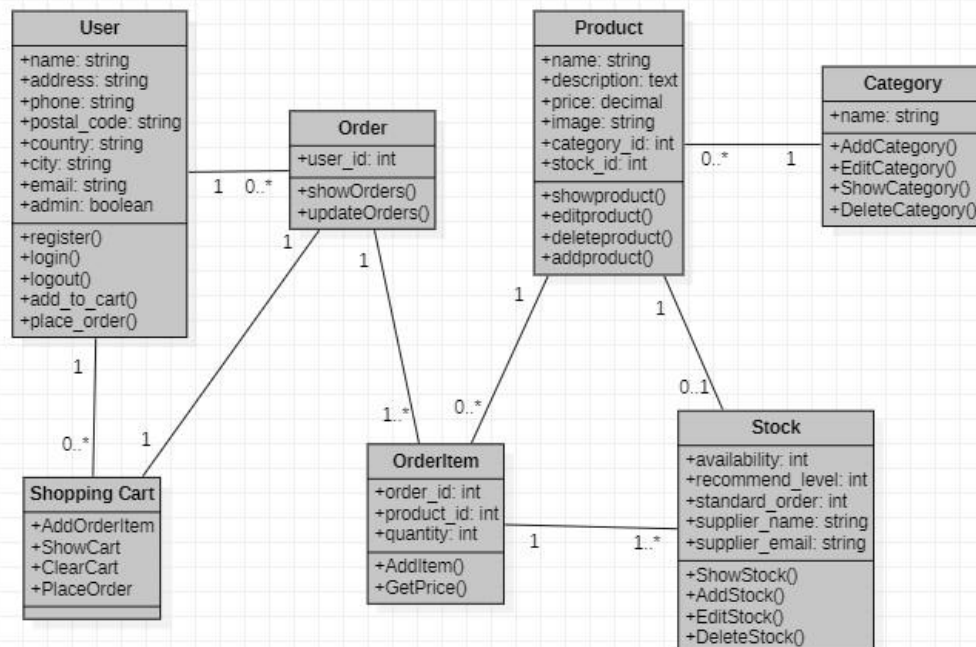


## Usecase Diagram :



## Class Diagram :

### CLASS DIAGRAM



## Appendix C: Issues List

- ☐ Integration of third-party payment gateways.

## Wireframe :

### 1. Sign Up

The wireframe shows a sign-up form centered on a pink background. The form is titled 'Sign Up' and contains three input fields: 'Your Name', 'Email Address', and 'Password'. Below these fields is a red 'Continue' button. At the bottom of the form, there is a link for users who already have an account and a checkbox for agreeing to the terms of use and privacy policy.

SHOPPER

Shop Men Women Kids

Login

Sign Up

Your Name

Email Address


Password

Continue


Already have an account? [Login here](#)

☐ By continuing, i agree to the terms of use & privacy policy.

## 2.Login

 SHOPPER

[Shop](#) [Men](#) [Women](#) [Kids](#)

Login 

### Login

Email Address

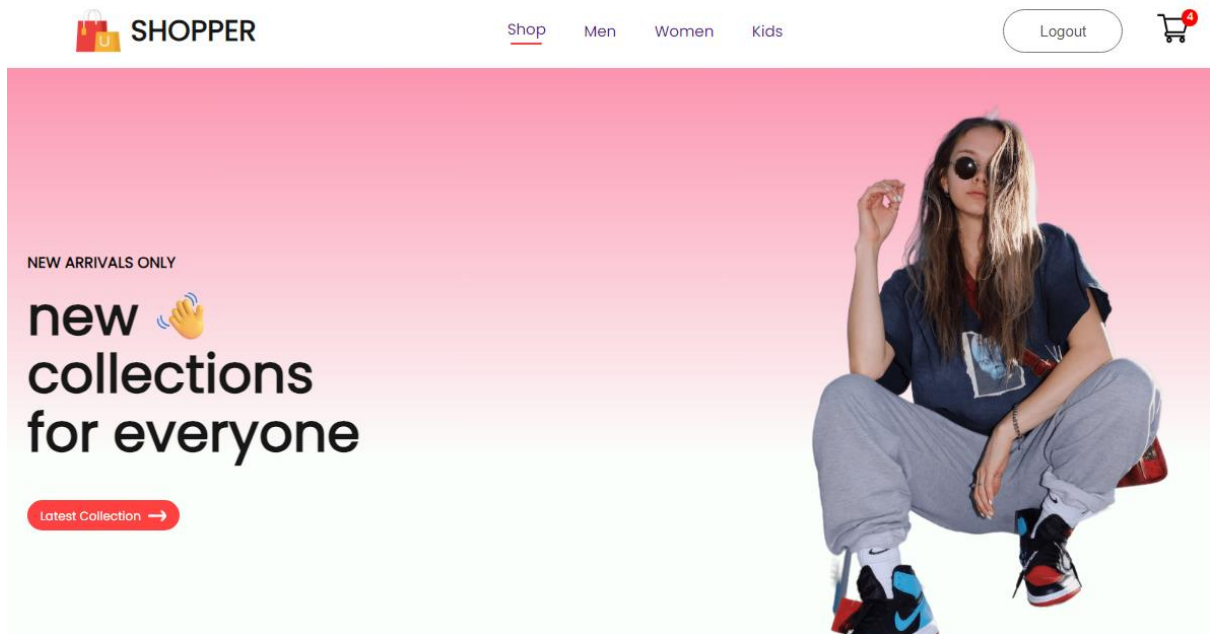
Password

Continue

Create an account? [Click here](#)

☐ By continuing, i agree to the terms of use & privacy policy.

## 3.Home Page





# Exclusive Offers For You

ONLY ON BEST SELLERS  
PRODUCTS

[Check Now](#)



## NEW COLLECTIONS



Men Green Solid Zippered Full-Zip  
Slim Fit Bomber Jacket

**\$100** ~~\$120~~



Men Green Solid Zippered Full-Zip  
Slim Fit Bomber Jacket

**\$100** ~~\$120~~



Men Green Solid Zippered Full-Zip  
Slim Fit Bomber Jacket

**\$100** ~~\$120~~



Men Green Solid Zippered Full-Zip  
Slim Fit Bomber Jacket

**\$100** ~~\$120~~



Men Green Solid Zippered Full-Zip  
Slim Fit Bomber Jacket  
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Men Green Solid Zippered Full-Zip  
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Men Green Solid Zippered Full-Zip  
Slim Fit Bomber Jacket  
**\$100** ~~\$120~~



Men Green Solid Zippered Full-Zip  
Slim Fit Bomber Jacket  
**\$100** ~~\$120~~

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Subscribe to our news latter and stay updated

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## 4.Men



## SHOPPER

[Shop](#)

Men

## Women

Kids

Logout



# FLAT 50% OFF

12 Hours 20 Mins



Showing 1-12 out of 36 products

Sort by 

Men Green Solid Zippered Full-Zip  
Slim Fit Bomber Jacket

**\$100**    ~~\$120~~

Men Green Solid Zippered Full-Zip  
Slim Fit Bomber Jacket

\$100    ~~\$120~~

Men Green Solid Zippered Full-Zip  
Slim Fit Bomber Jacket

**\$100**    ~~\$120~~

Men Green Solid Zippered Full-Zip  
Slim Fit Bomber Jacket

\$100    ~~\$120~~



Men Green Solid Zippered Full-Zip Slim Fit Bomber Jacket

**\$100**    ~~\$120~~



Men Green Solid Zippered Full-Zip Slim Fit Bomber Jacket

**\$100**    ~~\$120~~



Men Green Solid Zippered Full-Zip  
Slim Fit Bomber Jacket

\$100    ~~\$120~~



Men Green Solid Zippered Full-Zip  
Slim Fit Bomber Jacket

**\$100**    ~~\$120~~



Men Green Solid Zippered Full-Zip  
Slim Fit Bomber Jacket  
**\$100** ~~\$120~~



Men Green Solid Zippered Full-Zip  
Slim Fit Bomber Jacket  
**\$100** ~~\$120~~



Men Green Solid Zippered Full-Zip  
Slim Fit Bomber Jacket  
**\$100** ~~\$120~~



Men Green Solid Zippered Full-Zip  
Slim Fit Bomber Jacket  
**\$100** ~~\$120~~

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5.Women

FLAT 50% OFF

12 Hours 20 Mins

Explore now



Showing 1-12 out of 36 products

Sort by ▾



Solides Kordelzug-Satin-Minikleid  
Peplum Hem Jacket  
\$80 ~~\$100~~



Solides Kordelzug-Satin-Minikleid  
Peplum Hem Jacket  
\$80 ~~\$100~~



Solides Kordelzug-Satin-Minikleid  
Peplum Hem Jacket  
\$80 ~~\$100~~



Solides Kordelzug-Satin-Minikleid  
Peplum Hem Jacket  
\$80 ~~\$100~~



Solides Kordelzug-Satin-Minikleid  
Peplum Hem Jacket  
\$80 ~~\$100~~



Solides Kordelzug-Satin-Minikleid  
Peplum Hem Jacket  
\$80 ~~\$100~~



Solides Kordelzug-Satin-Minikleid  
Peplum Hem Jacket  
\$80 ~~\$100~~



Solides Kordelzug-Satin-Minikleid  
Peplum Hem Jacket  
\$80 ~~\$100~~



Solides Kordelzug-Satin-Minikleid  
Peplum Hem Jacket  
\$80 ~~\$100~~



Solides Kordelzug-Satin-Minikleid  
Peplum Hem Jacket  
\$80 ~~\$100~~




Solides Kordelzug-Satin-Minikleid  
Peplum Hem Jacket  
\$80 ~~\$100~~




Solides Kordelzug-Satin-Minikleid  
Peplum Hem Jacket  
\$80 ~~\$100~~

6.Kid

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[Logout](#)

FLAT 50% OFF


12 Hours 20 Mins

Explore now




Showing 1-12 out of 36 products


Sort by ▼




Boys Multi Color blocked Hooded Sweatshirt  
\$75 ~~\$99~~



Boys Multi Color blocked Hooded Sweatshirt  
\$75 ~~\$99~~



Boys Multi Color blocked Hooded Sweatshirt  
\$75 ~~\$99~~



Boys Multi Color blocked Hooded Sweatshirt  
\$75 ~~\$99~~





Boys Multi Color blocked Hooded  
Sweatshirt  
\$75 ~~\$99~~



Boys Multi Color blocked Hooded  
Sweatshirt  
\$75 ~~\$99~~



Boys Multi Color blocked Hooded  
Sweatshirt  
\$75 ~~\$99~~



Boys Multi Color blocked Hooded  
Sweatshirt  
\$75 ~~\$99~~



Boys Multi Color blocked Hooded  
Sweatshirt  
\$75 ~~\$99~~



Boys Multi Color blocked Hooded  
Sweatshirt  
\$75 ~~\$99~~



Boys Multi Color blocked Hooded  
Sweatshirt  
\$75 ~~\$99~~



Boys Multi Color blocked Hooded  
Sweatshirt  
\$75 ~~\$99~~

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7.Cart

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Logout



Products	Title	Price	Quantity	Total	Remove
	Solides Kordelzug-Satin-Minikleid Peplum Hem Jacket	\$80	<input type="text" value="1"/>	\$80	×
	Men Green Solid Zippered Full-Zip Slim Fit Bomber Jacket	\$100	<input type="text" value="2"/>	\$200	×
	Men Green Solid Zippered Full-Zip Slim Fit Bomber Jacket	\$100	<input type="text" value="1"/>	\$100	×

cart Totals

Subtotal

\$380

Shipping Fee

Free

Total


\$380

If you have a promo code, Enter it here


promo code


Submit


PROCEED TO CHECKOUT

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## 8.About Us



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### About Us



Welcome to our Website, where style meets convenience. Discover the latest trends, curated collections, and timeless classics for men, women, and children. Immerse yourself in a seamless shopping experience, exploring a diverse range of high-quality apparel and accessories.

Our mission is to make shopping convenient, enjoyable, and affordable for everyone. We are committed to offering high-quality products from trusted brands at competitive prices, ensuring that you get the best value for your money.

Thank you for choosing our clothing website! We appreciate your trust and look forward to serving you for all your future shopping needs.

Happy shopping!




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### Contact Us


Your Email Address


Subject


How can we help ?

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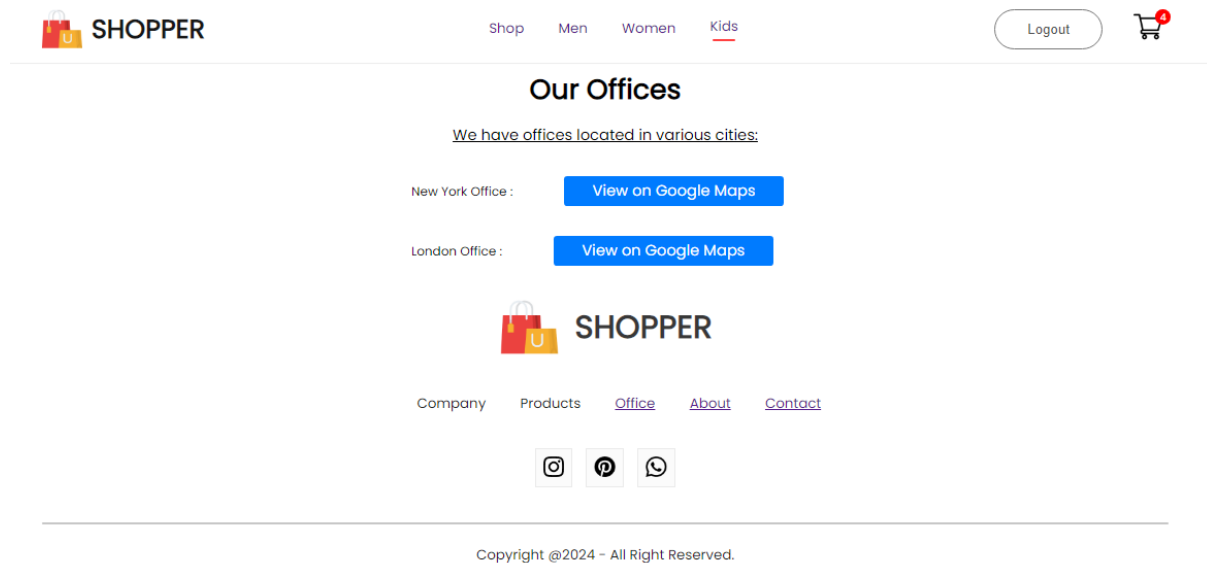






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## 10.Office



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