WARDROBE-IN ECOMMERCE -WEBSITE

1. Introduction

1.1 Project Overview

The **Wardrobe-In E-Commerce Website** is an interactive online shopping platform where users can browse fashion products, add them to the cart, remove them, and view the total price dynamically. The project follows **React best practices**, including a **component-based architecture**, **global state management**, and **client-side navigation**.

1.2 Objective

The main goals of this project are:

- Provide a **user-friendly** and **intuitive shopping experience**.
- Implement **efficient state management** using **Context API and useReducer**.
- Enable **seamless navigation** with **React Router**.
- Ensure **modern styling and responsiveness** using **Tailwind CSS**.
- Enhance **performance** with **Vite** for faster development and build times.

2. Technologies Used

Technology	Purpose
React.js	UI development with reusable components
React Router	Enables client-side navigation between pages
Context API	Manages global state (cart functionality)
useReducer Hook	Handles state updates efficiently (add/remove items)
Tailwind CSS	Provides responsive and modern UI styling
JavaScript (ES6+)	Implements dynamic UI logic and interactivity
Vite	Provides a fast development server for React applications

3. Features & Functionality

3.1 Displaying Products (Home Page)

The Home Page displays a **list of fashion products**, each showing:

- **Product name**
- **Price**

- **"Add to Cart" button**

Functionality:

✅ Clicking **"Add to Cart"** updates the **global cart state** via **Context API**.
✅ The button dynamically changes when a product is added.

3.2 Managing the Shopping Cart (Cart Page)

The Cart Page allows users to:

- **View items** added to the cart.
- **See the total price** of selected items.
- **Remove products** from the cart.

Functionality:

✅ Clicking **"Remove"** updates the **cart state** and removes the item.
✅ The **total price updates dynamically** as items are added/removed.

3.3 Global State Management (CartContext)

Instead of **prop drilling**, **Context API** + **useReducer** is used for cart management.

- **useContext**: Provides global access to the cart state.
- **useReducer**: Handles cart operations:
  ✅ ADD_TO_CART – Adds a product to the cart.
  ✅ REMOVE_FROM_CART – Removes a product from the cart.

3.4 Navigation (React Router)

✅ **Navbar component** provides links to **Home** and **Cart Page**.
✅ **React Router** handles **client-side navigation** efficiently.

4. UI & Styling

- **Tailwind CSS** is used for **clean and modern styling**.
- **Responsive design** ensures the site works on **desktop, tablet, and mobile**.
- **Flexbox & Grid** layouts are used for structured product display.

5. Development & Deployment

5.1 Development Workflow

1️⃣ **Initialize React project** using Vite for a fast setup.
2️⃣ **Install dependencies**: React Router, Tailwind CSS, Context API.
3️⃣ **Set up components** for modular development.
4️⃣ **Implement state management** using Context API and useReducer.
5️⃣ **Apply Tailwind CSS styling** for a modern UI.

5.2 Running the Project

✅ Install dependencies:

nginx

CopyEdit

npm install

✅ Start the development server:

arduino

CopyEdit

npm run dev

6. Testing & Debugging

6.1 Functional Testing

✓ Checked **"Add to Cart" functionality** for correct updates.
✓ Verified **"Remove from Cart"** correctly removes items.
✓ Ensured **total price updates dynamically**.
✓ Confirmed **navigation works smoothly** using React Router.

6.2 Debugging Challenges & Fixes

❌ **Issue:** React Router navigation was not updating the page correctly.
✓ **Fix:** Wrapped the App component inside <BrowserRouter>.

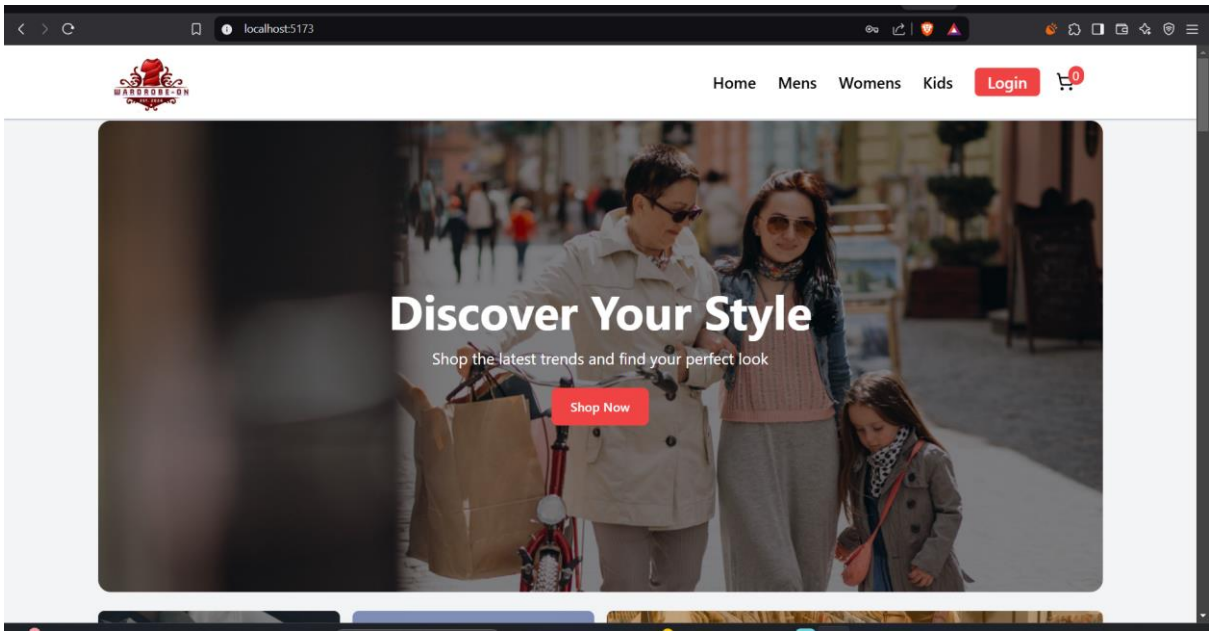
❌ **Issue:** Cart state was not updating properly.
✓ **Fix:** Used **useReducer** instead of **useState** for better state management.

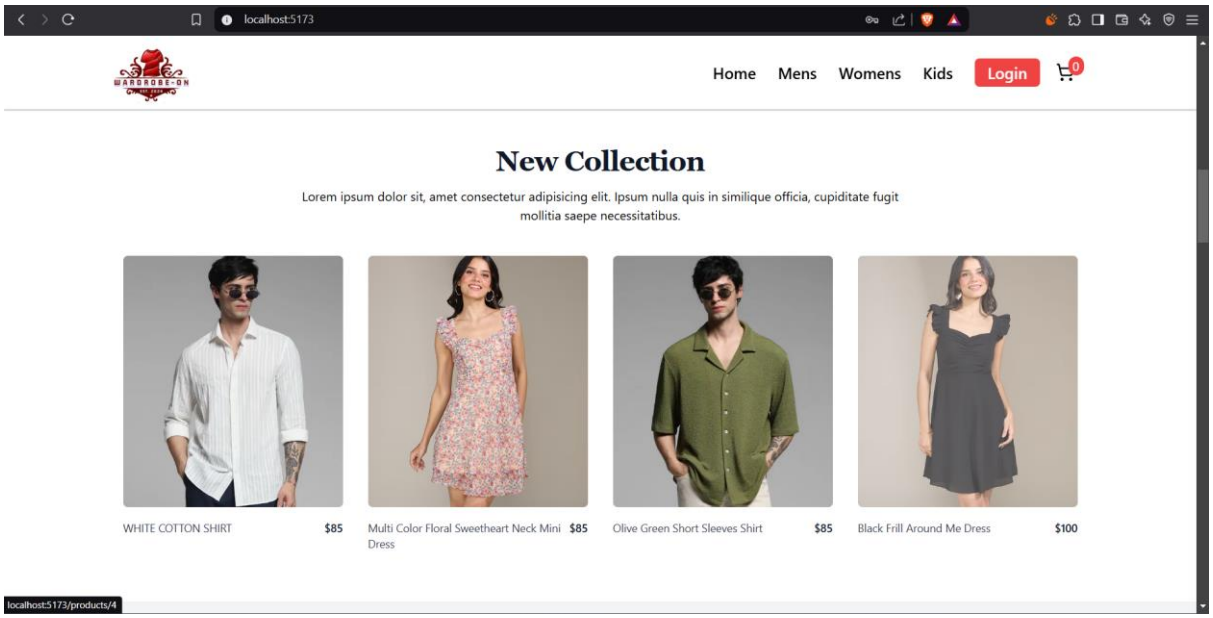
7. Conclusion

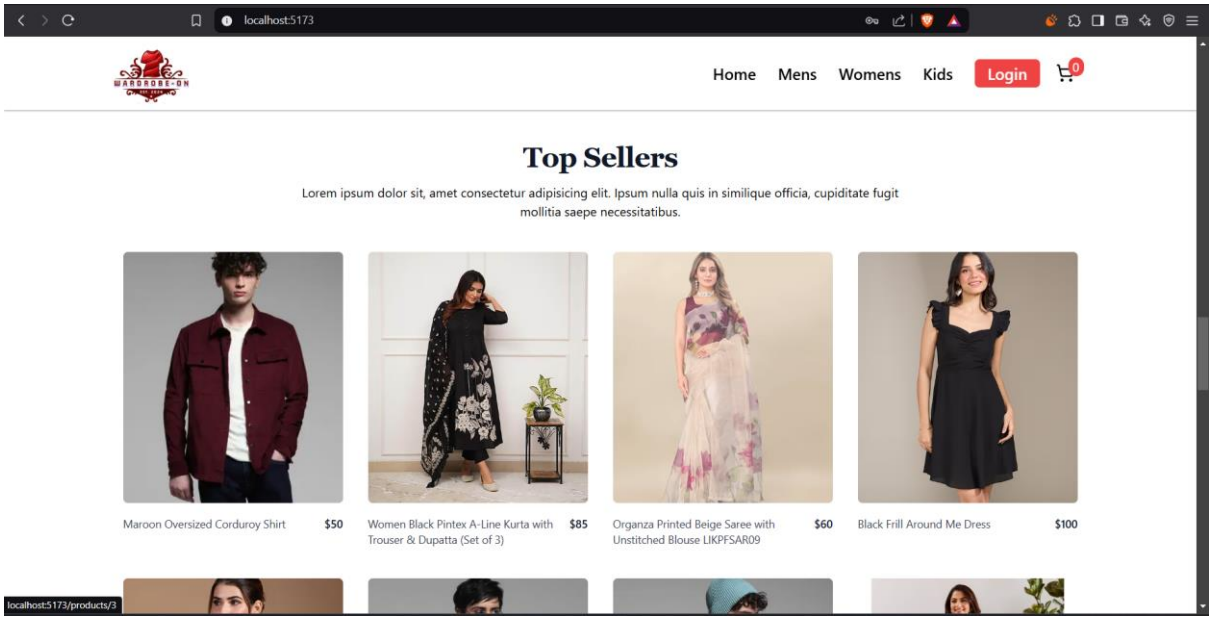
The **Wardrobe-In E-Commerce Website** successfully implements a **modern shopping experience** with **React, Context API, React Router, and Tailwind CSS**. It follows **best practices** for state management and UI design while ensuring **seamless navigation and responsiveness**.

IMAGES :

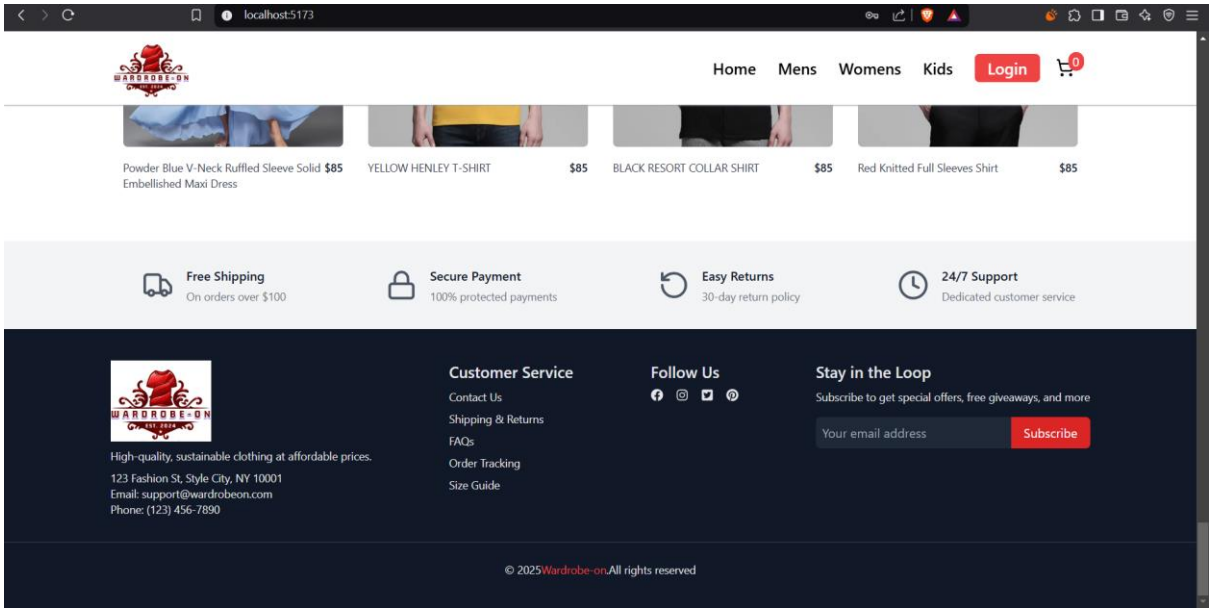
Home page






localhost:5173
Home
Mens
Womens
Kids
Login
Top Sellers
Lorem ipsum dolor sit, amet consectetur adipisicing elit. Ipsum nulla quis in similique officia, cupiditate fugit mollitia saepe necessitatibus.
Maroon Oversized Corduroy Shirt $50
Women Black Pintex A-Line Kurta with Trouser & Dupatta (Set of 3) $85
Organza Printed Beige Saree with Unstitched Blouse LIKPFSAR09 $60
Black Frill Around Me Dress $100
localhost:5173/products/3

Footer


localhost:5173
Home
Mens
Womens
Kids
Login
Powder Blue V-Neck Ruffled Sleeve Solid Embellished Maxi Dress $85
YELLOW HENLEY T-SHIRT $85
BLACK RESORT COLLAR SHIRT $85
Red Knitted Full Sleeves Shirt $85
Free Shipping
On orders over $100
Secure Payment
100% protected payments
Easy Returns
30-day return policy
24/7 Support
Dedicated customer service
High-quality, sustainable clothing at affordable prices.
123 Fashion St, Style City, NY 10001
Email: support@wardrobeon.com
Phone: (123) 456-7890
Customer Service
Contact Us
Shipping & Returns
FAQs
Order Tracking
Size Guide
Follow Us
Stay in the Loop
Subscribe to get special offers, free giveaways, and more
Your email address
Subscribe
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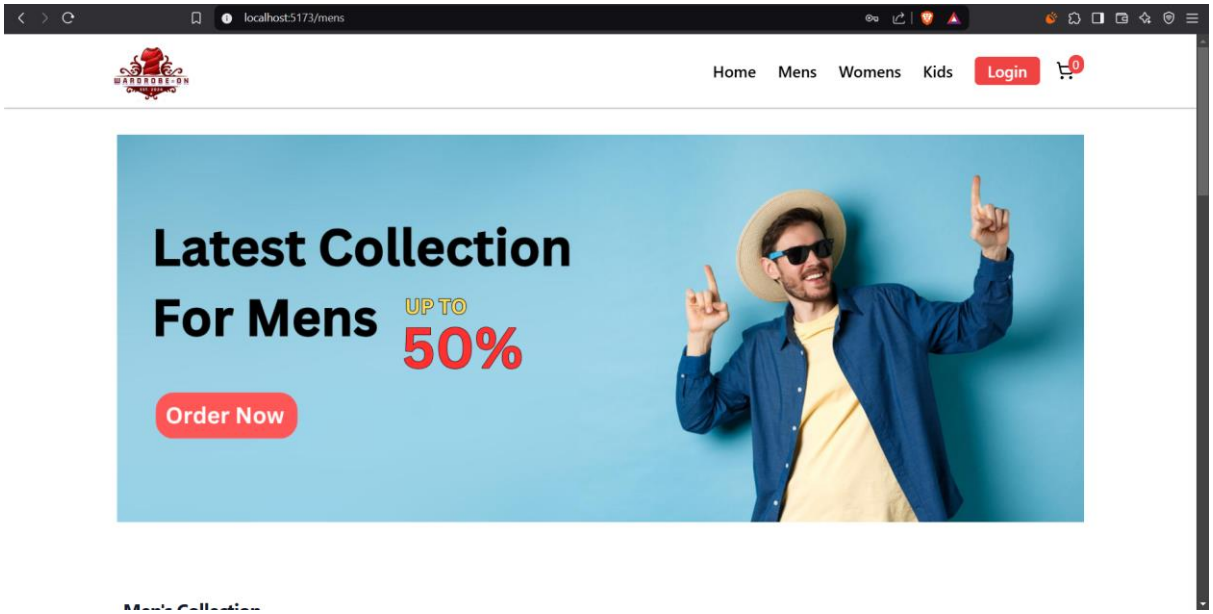
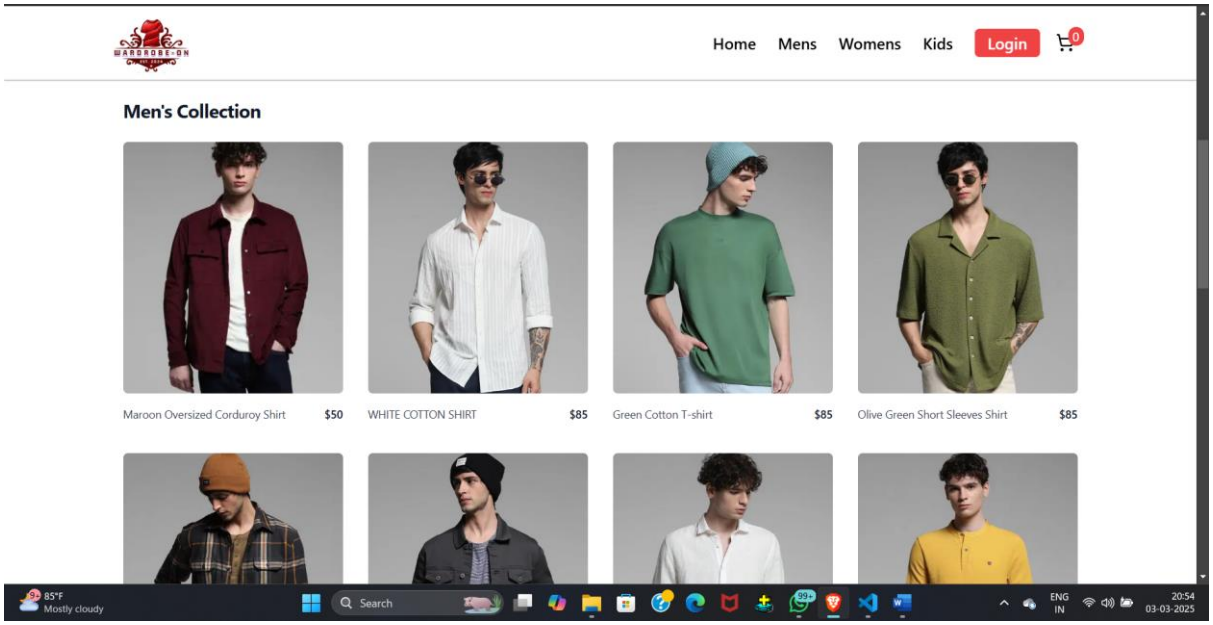
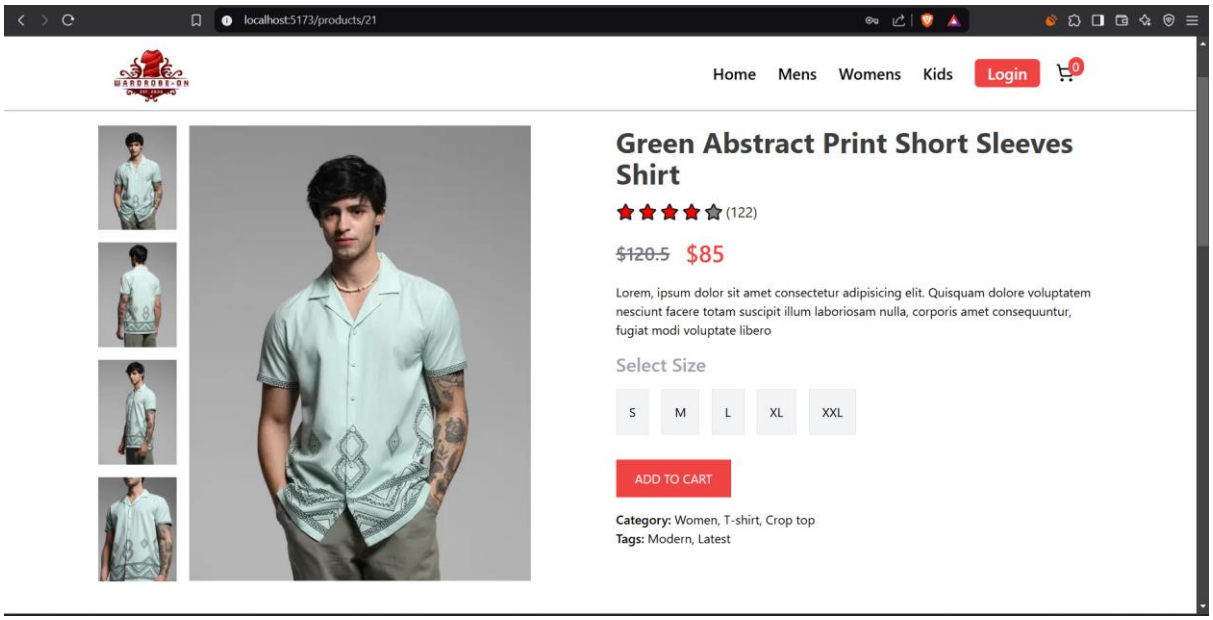
Mens’

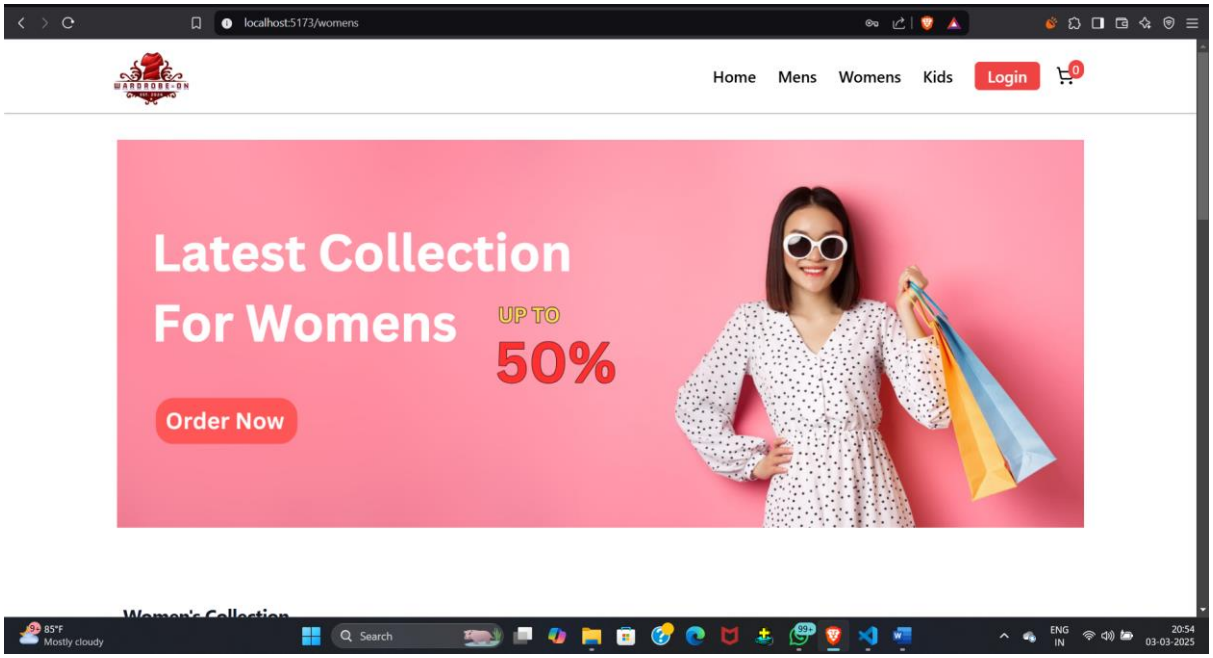

localhost:5173/mens
Home
Mens
Womens
Kids
Login
Latest Collection
For Mens
UP TO
50%
Order Now

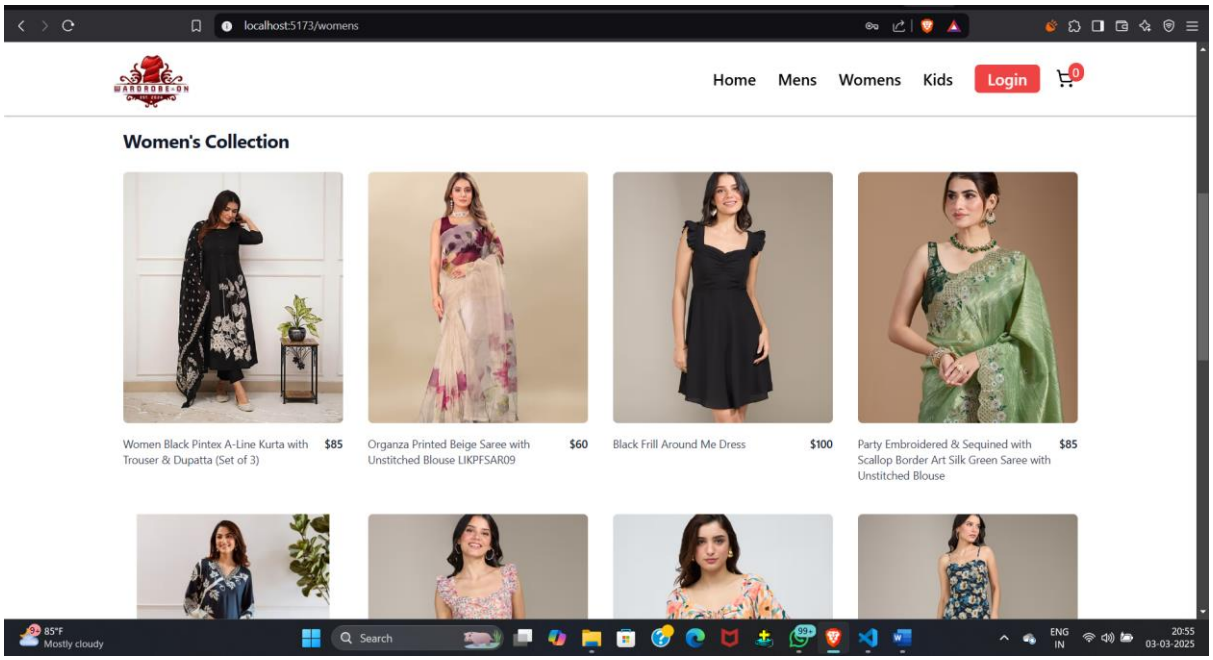

Home
Mens
Womens
Kids
Login
Men's Collection
Maroon Oversized Corduroy Shirt $50
WHITE COTTON SHIRT $85
Green Cotton T-shirt $85
Olive Green Short Sleeves Shirt $85
85°F
Mostly cloudy
Search
ENG
IN
20:54
03-03-2025

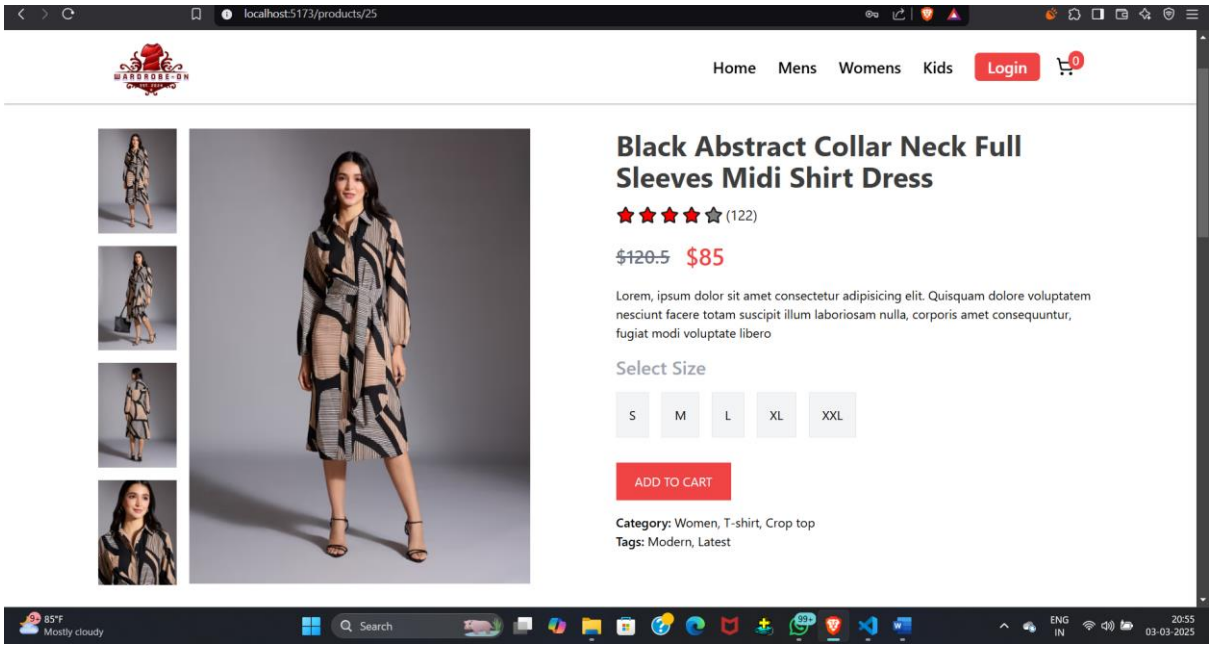
Product display page



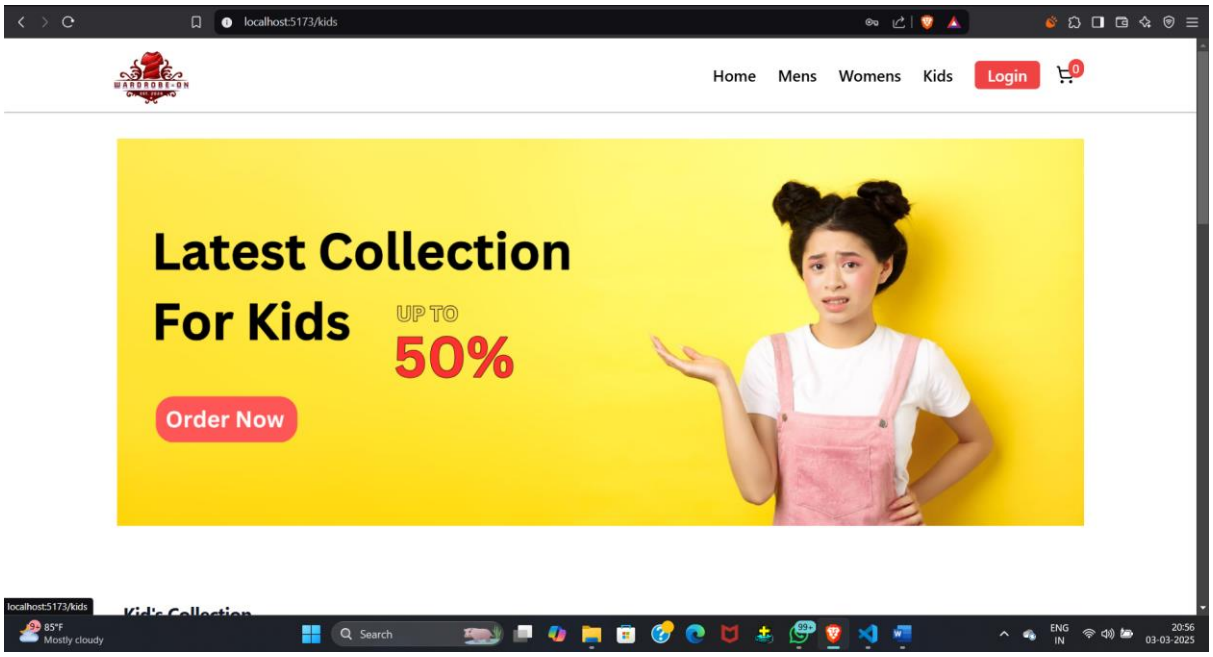
Womens'

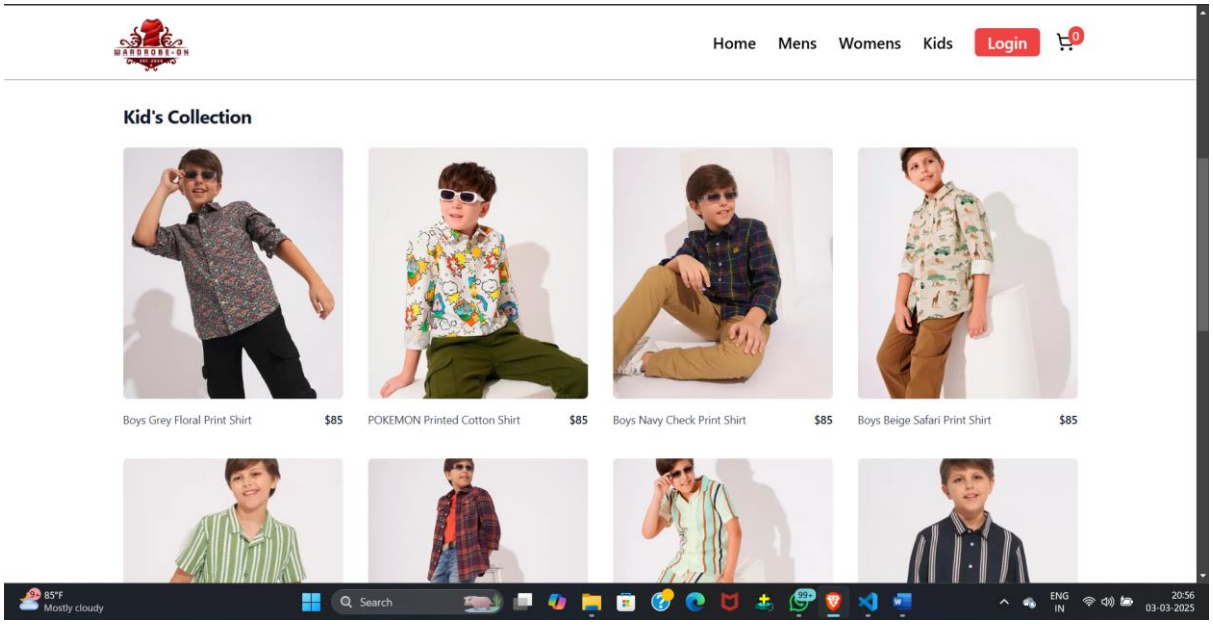


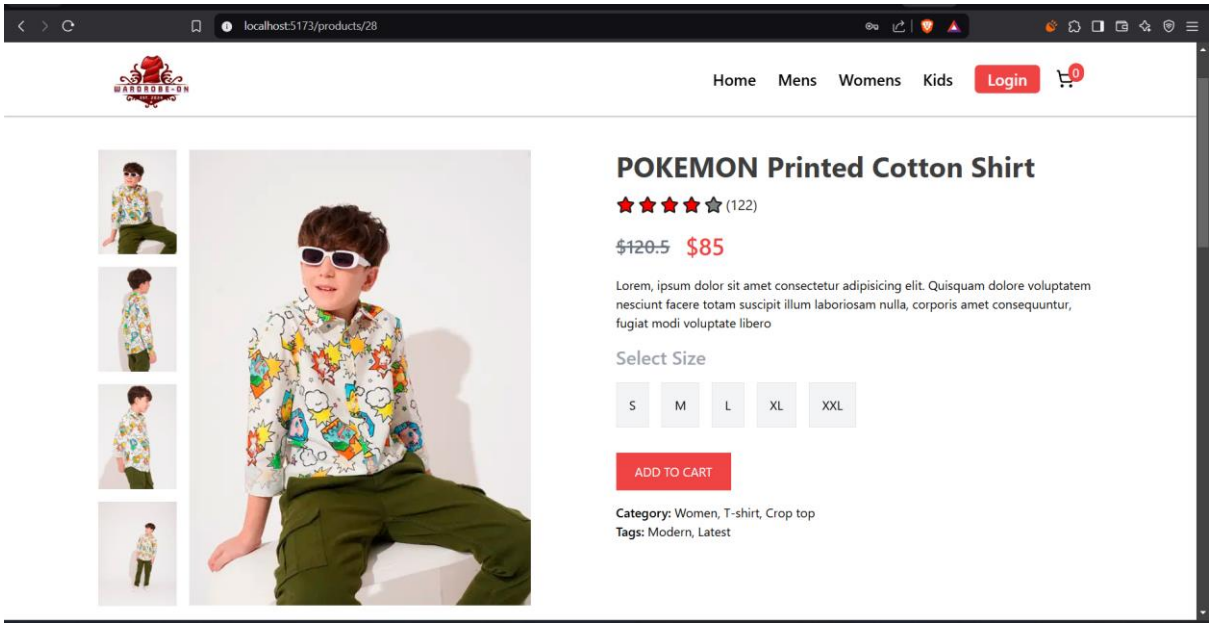

localhost:5173/womens
Home
Mens
Womens
Kids
Login
Women's Collection
Women Black Pintex A-Line Kurta with Trouser & Dupatta (Set of 3) $85
Organza Printed Beige Saree with Unstitched Blouse LIKPFSAR09 $60
Black Frill Around Me Dress $100
Party Embroidered & Sequined with Scallop Border Art Silk Green Saree with Unstitched Blouse $85
85°F
Mostly cloudy
Search
ENG
IN
20:55
03-03-2025


localhost:5173/products/25
Home
Mens
Womens
Kids
Login
Black Abstract Collar Neck Full Sleeves Midi Shirt Dress
(122)
$120.5
$85
Lorem, ipsum dolor sit amet consectetur adipisicing elit. Quisquam dolore voluptatem nesciunt facere totam suscipit illum laboriosam nulla, corporis amet consequuntur, fugiat modi voluptate libero
Select Size
S
M
L
XL
XXL
ADD TO CART
Category: Women, T-shirt, Crop top
Tags: Modern, Latest
85°F
Mostly cloudy
Search
ENG
IN
20:55
03-03-2025

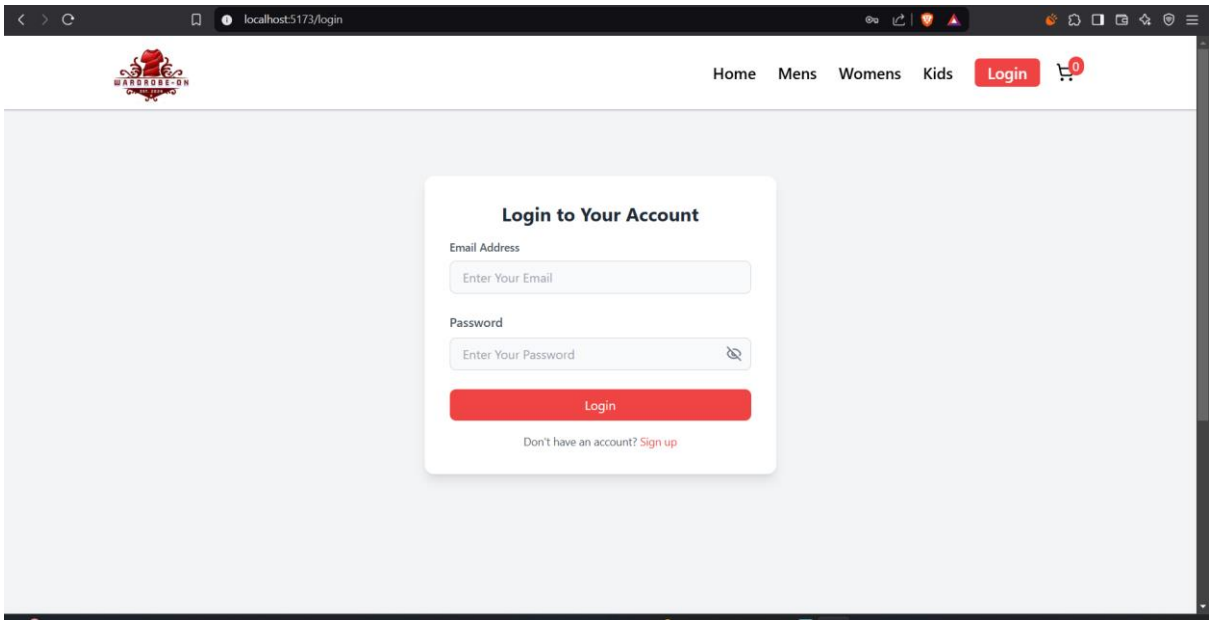
Kids’


localhost:5173/kids
Home
Mens
Womens
Kids
Login
Latest Collection
For Kids
UP TO
50%
Order Now
Search


Home
Mens
Womens
Kids
Login
Kid's Collection
Boys Grey Floral Print Shirt
$85
POKEMON Printed Cotton Shirt
$85
Boys Navy Check Print Shirt
$85
Boys Beige Safari Print Shirt
$85
Search

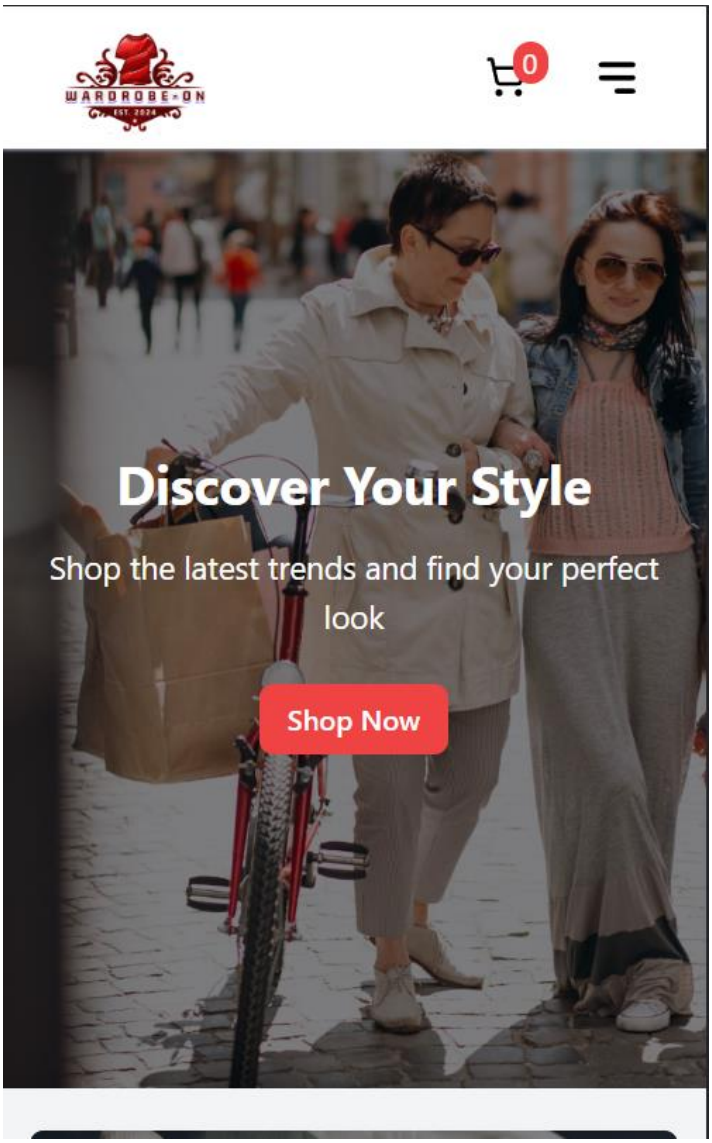

localhost:5173/products/28
Home
Mens
Womens
Kids
Login
POKEMON Printed Cotton Shirt
(122)
$120.5
$85
Lorem, ipsum dolor sit amet consectetur adipisicing elit. Quisquam dolore voluptatem nesciunt facere totam suscipit illum laboriosam nulla, corporis amet consequuntur, fugiat modi voluptate libero
Select Size
S
M
L
XL
XXL
ADD TO CART
Category: Women, T-shirt, Crop top
Tags: Modern, Latest

Login page


localhost:5173/login
Home
Mens
Womens
Kids
Login
Login to Your Account
Email Address
Enter Your Email
Password
Enter Your Password
Login
Don't have an account? Sign up

Mobile view

Home page



WARDROBE-ON
EST. 2024

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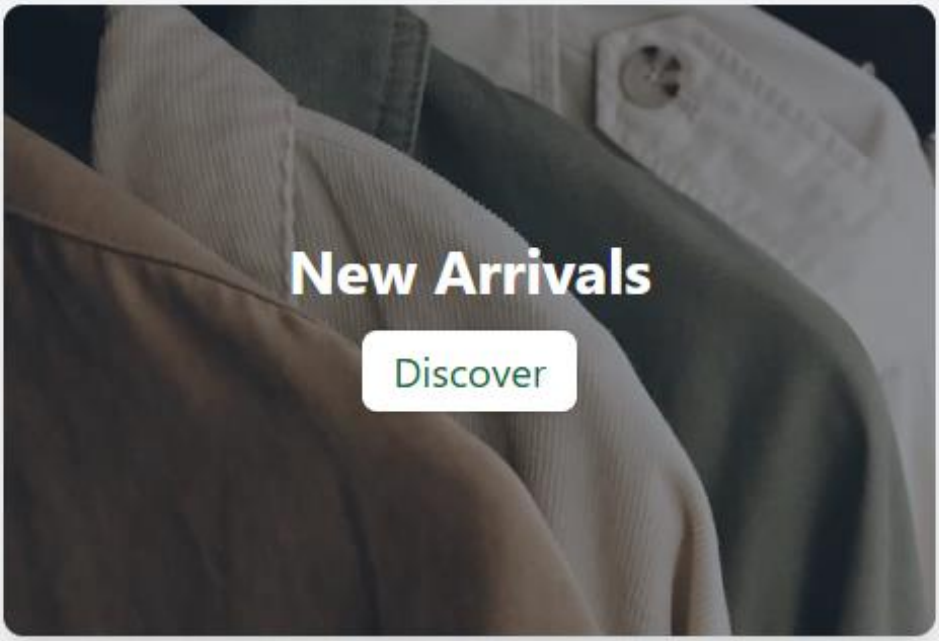

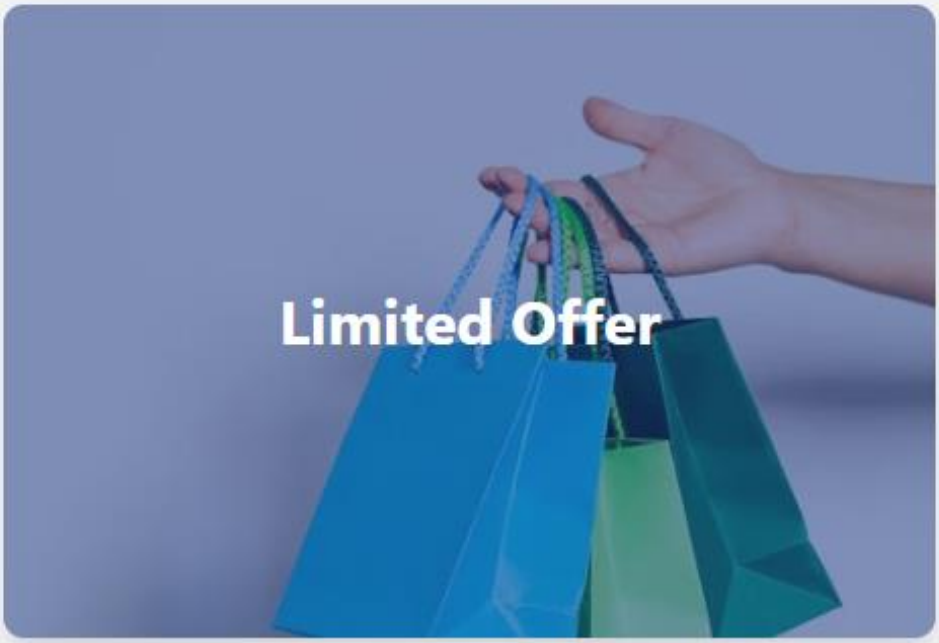

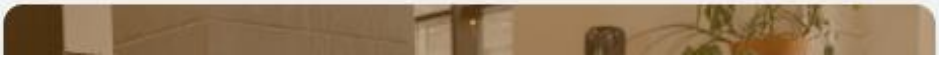

WARDROBE-ON
EST. 2024

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WARDROBE-ON
EST. 2024

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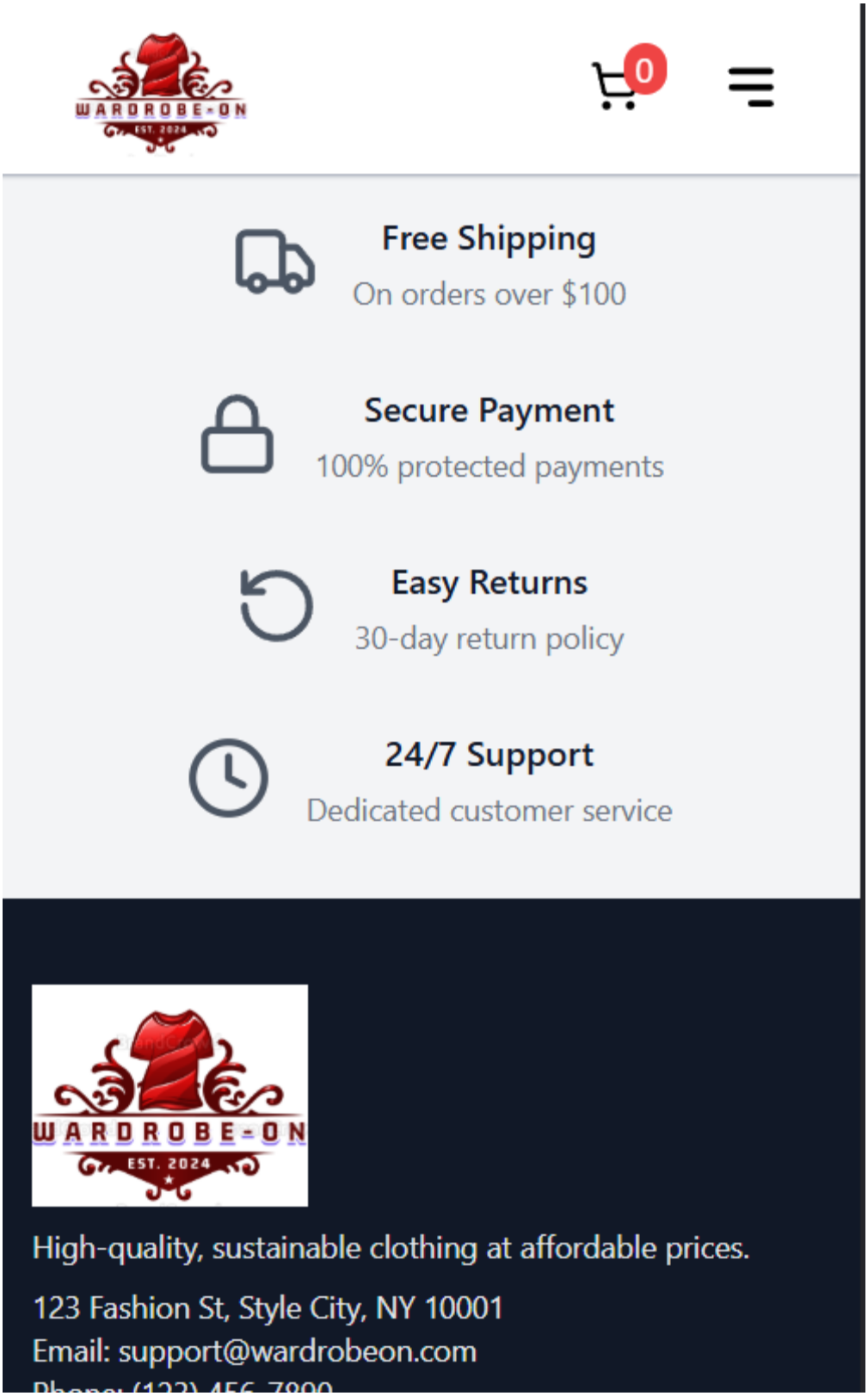
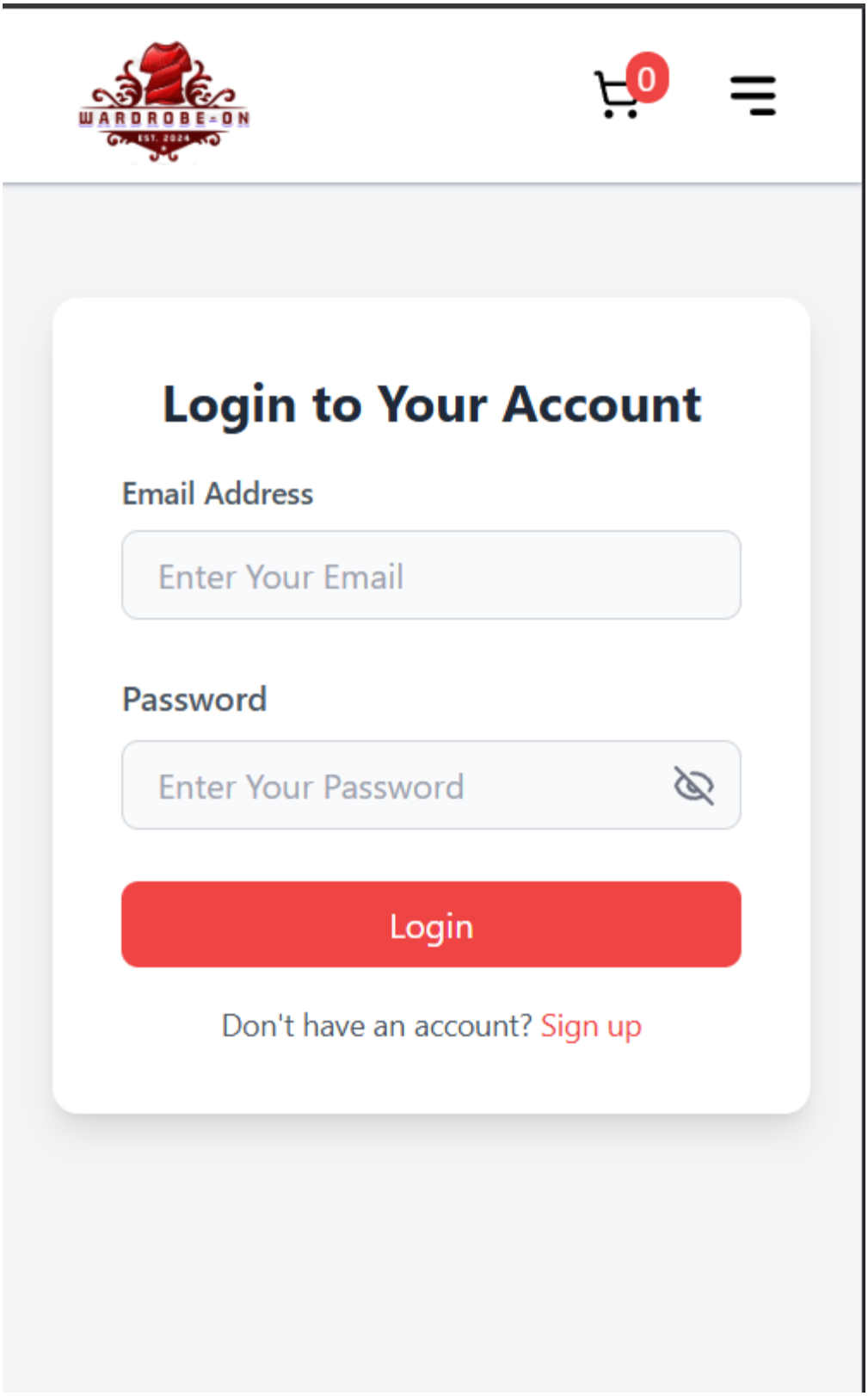
New Collection

Lorem ipsum dolor sit, amet consectetur adipisicing elit. Ipsum nulla quis in similique officia, cupiditate fugit mollitia saepe necessitatibus.


WARDROBE-ON
EST. 2024
0
Free Shipping
On orders over $100
Secure Payment
100% protected payments
Easy Returns
30-day return policy
24/7 Support
Dedicated customer service
WARDROBE-ON
EST. 2024
High-quality, sustainable clothing at affordable prices.
123 Fashion St, Style City, NY 10001
Email: support@wardrobeon.com


WARDROBE-ON
EST. 2024
0
Login to Your Account
Email Address
Enter Your Email
Password
Enter Your Password
Login
Don't have an account? Sign up

WARDROBE-ON
EST. 2024

0

Women's Collection

WARDROBE-ON

0

Men's Collection

Hello User

Premium User

Home

Mens

Womens

Kids

Login