

# **User Manual**

## **Online Clothing Store**

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## Overview

The Online Clothing Store is a comprehensive e-commerce platform designed to streamline and modernize the clothing retail experience. The system accommodates three distinct user roles - Administrators, Customers, and Employees - each with specific functionalities tailored to their needs. Administrators have complete control over product management, employee oversight, and system configuration. Customers can browse the extensive product catalog, manage their shopping carts, place orders, and track deliveries. Employees focus on order fulfillment and delivery management. The platform features robust product management with variant control, secure user authentication, efficient order processing, and comprehensive delivery tracking. Built on MongoDB with 11 core data models, the system ensures scalability and efficient data organization. Key features include detailed product categorization, size and color variants, inventory tracking, shopping cart management, secure payment processing, and order return capabilities. This all-encompassing solution aims to provide a seamless shopping experience while maintaining efficient backend operations and robust security measures, making it a complete and modern e-commerce solution for clothing retail.

## System Users

The system caters to three main user groups:

- **Admin**
  - Add and edit products and its variants
  - Add and edit Employees
  - View customers
  - Manage orders and return requests
- **Customer**
  - View all the products and its variants
  - Can add the product to the cart, update the quantity and remove it as well
  - Can view order history
  - Can return the order after the order is completed and before completion as well
  - Can view payment history
- **Employee**
  - Can view all the assigned orders
  - Can manage the Delivery status of the orders
  - Can view the completed orders

## **Key Features and Functionalities**

The Online Clothing Store incorporates a comprehensive suite of features designed to create a seamless e-commerce experience across all user roles. For administrators, the system provides complete control over product management, including the ability to add, edit, and remove products with multiple variants, manage inventory levels, and oversee employee activities. The customer-facing features include an intuitive product browsing experience with advanced filtering options, a robust shopping cart system, secure checkout process, and detailed order tracking capabilities. Employees are equipped with efficient tools for order management and delivery processing, including real-time status updates and delivery route optimization. The platform's core functionalities encompass secure user authentication, role-based access control, comprehensive product categorization, variant management (sizes, colors, and styles), automated inventory tracking, secure payment processing, and a sophisticated order return system. Additional features include real-time stock updates, automated notifications for order status changes, detailed sales reporting, and a streamlined return processing workflow. The system's integration with a MongoDB database ensures efficient data management and scalability, while maintaining robust security measures for user data and transaction processing, making it a complete solution for modern clothing retail operations.

# Getting Started

## Requirements

To run the application, ensure you have the following installed:

- **Bun:** v1.0 or later
- **Node.js:** v18 or later
- **MongoDB:** v4.4 or later

## Installation

1. Unzip the project
2. Navigate to the project directory:
3. Install dependencies/libraries using Bun:

```
cd source_code
```

```
bun install
```

## Configuration

### Environment Variables

The application uses a .env file to manage configuration settings. The following variables should be defined:

- **DATABASE URL:** The URL connection string for MongoDB.
- **SESSION SECRET:** The secret key for session management.

## Application Structure

The project follows the typical Remix-vite file structure:

- `app/`: Contains Remix routes(flat routes), server configuration, api endpoints, components, and styles.
- `prisma/`: Contains Prisma schema and migration files.

## Database Management

### Prisma

The application uses Prisma to interact with MongoDB.

1. **Generate Prisma Client:** Run this command after modifying the Prisma schema:

```
bunx prisma generate
```

2. **Seed the database:** Run this command to push the schema to the database and seed it with sample data:

```
bunx prisma db push && bunx prisma db seed
```

## Running the Application

### Development

To start the application in development mode, run:

```
bun run dev
```

### Production

To build the application for production, run:

```
bun run build
```

To start the application in production mode, run:

```
bun run start
```



## Screenshots:

The screenshot shows the login interface for 'Clothing Store'. On the left is a dark vertical banner with a woman's face and the text 'Clothing Store YOUR FASHION DESTINATION'. The main area is white and contains a lock icon, the heading 'Welcome Back', and the subtext 'SIGN IN TO YOUR ACCOUNT'. Below this are input fields for 'EMAIL' and 'PASSWORD', each with a red asterisk. A 'Keep me signed in' checkbox is present. A black 'SIGN IN' button is centered. At the bottom, there is a link 'New customer? Create an account' and a copyright notice '© 2024 Clothing Store. All rights reserved.'

Clothing Store  
YOUR FASHION DESTINATION

Welcome Back  
SIGN IN TO YOUR ACCOUNT

EMAIL \*

PASSWORD \*

☐ Keep me signed in

SIGN IN

New customer? [Create an account](#)

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The screenshot shows the registration interface for 'Clothing Store'. On the left is a dark vertical banner with a woman's face and the text 'Clothing Store YOUR FASHION DESTINATION'. The main area is white and contains a lock icon, the heading 'Create Account', and the subtext 'JOIN US FOR EXCLUSIVE FASHION UPDATES'. Below this is an 'ACCOUNT TYPE' dropdown menu set to 'CUSTOMER'. There are input fields for 'EMAIL', 'PASSWORD', and 'CONFIRM PASSWORD', each with a red asterisk. Below these are fields for 'FIRST NAME', 'LAST NAME', 'GENDER', 'PHONE NUMBER', 'DATE OF BIRTH', 'STREET ADDRESS', 'CITY', 'STATE', and 'ZIP CODE', each with a red asterisk.

Clothing Store  
YOUR FASHION DESTINATION

Create Account  
JOIN US FOR EXCLUSIVE FASHION UPDATES

ACCOUNT TYPE  
CUSTOMER

EMAIL \*

PASSWORD \*

CONFIRM PASSWORD \*

FIRST NAME \* LAST NAME \*

GENDER \* PHONE NUMBER \*

DATE OF BIRTH \*

STREET ADDRESS \*

CITY \* STATE \* ZIP CODE \*























