




Dynamic Product Search Bar, Add to Cart, and Wishlist Functionality Documentation

Introduction

This comprehensive documentation outlines the implementation of key e-commerce functionalities:

-  **Dynamic Product Search Bar:** Empowers users to search for products seamlessly in real-time.
-  **Add to Cart:** Facilitates adding products to the shopping cart with quantity management.
-  **Wishlist Functionality:** Enables users to save favorite products for future reference.

Dynamic Product Search Bar

- **Real-Time Filtering:** Instantly displays relevant products as the user types.
- **Case-Insensitive Search:** Ensures flexibility in search queries.
- **Optimized Performance:** Designed for scalability with large product datasets.

Add to Cart

- **Flexible Quantity Management:** Add, update, and remove items effortlessly.
- **Persistent Cart State:** Maintains cart items even after page refresh using localStorage or APIs.
- **Secure Checkout Integration:** Ready for payment gateway integration.

Wishlist

- **One-Click Add/Remove:** Simplifies saving favorite items.
- **Persistent Storage:** Maintains wishlist across sessions.
- **Visual Indicators:** Highlights wishlisted products for easy tracking.

Technical Flow

FLOWCHART

DYNAMIC PRODUCT SEARCH BAR

```
graph TD; A[User Inputs Query] --> B[Trigger Search Function]; B --> C[Filter Products Based on Input]; C --> D[Render Matching Products Dynamically];
```

ADD TO CART

```
graph TD; A[User Clicks "Add to Cart"] --> B[Validate Product Availability]; B --> C[Update Cart State (Local/Backend)];
```



[Display Updated Cart to User]



WISHLIST

[User Clicks "Wishlist"]



[Toggle Wishlist Status]

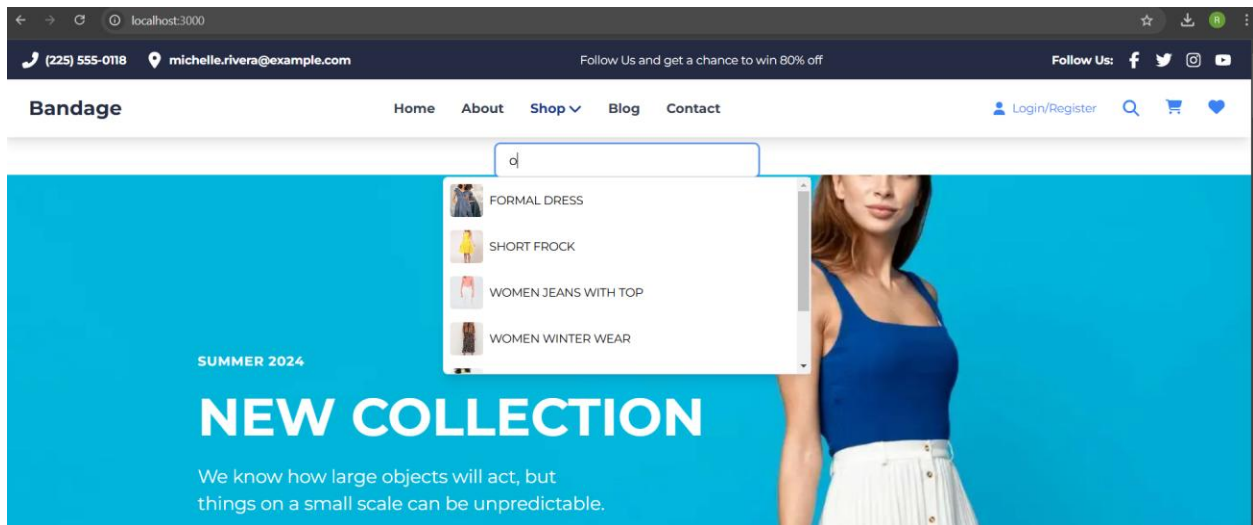


[Update Wishlist (Local/Backend)]

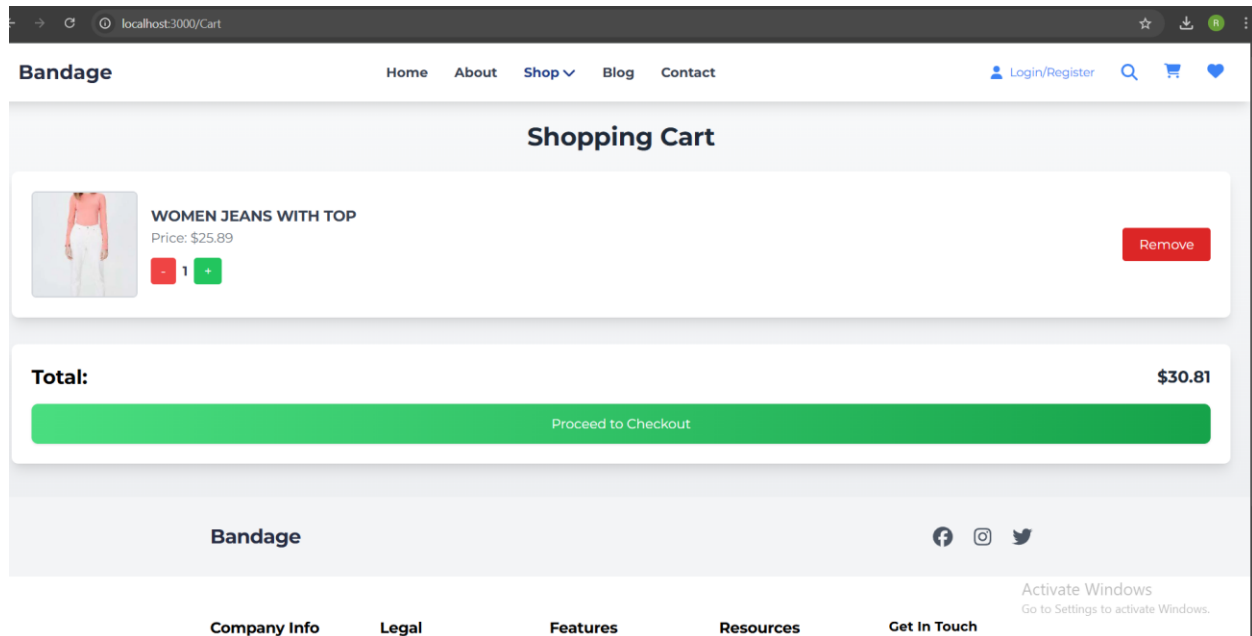


[Reflect Changes in UI]

ScreenShoot Search Bar Functionality



ScreenShoot Add to Cart Page



ScreenShoot Wishlist Page

