E-Commerce Platform Requirements for RMG Products

1. Core Features

Home Page:

- Featured products display (carousel or grid view).
- Search bar with autocomplete functionality.
- Category-based product navigation.
- Dynamic banners for promotions and new arrivals.

Product Management:

- Product listing with:
  - Name, description, price, size, and color options.
  - High-resolution images (zoom functionality).
  - Stock availability indicator.
- Filtering options:
  - By size, color, price range, and category.
- Sorting options:
  - By price (low to high, high to low), newest arrivals.

User Account Management:

- Customer registration (email, phone number).
- Profile management (address book, order history).
- Login/Logout functionality.
- Password recovery via email.

Shopping Cart:

- Add to cart and remove from cart functionality.
- Update quantity directly from the cart.
- Display total cost, including taxes and shipping.

Checkout Process:

- Address selection or entry.
- Shipping method selection.
- Order summary and confirmation.
- Payment gateway integration:
  - PayPal (primary for USA customers).
- Order success/failure page.

Inventory Management:

- Real-time stock updates.
- Notifications for low stock levels.
- Automatic stock deduction upon successful order placement.

Purchase Management:

- Supplier management:
    - Add, view, and update supplier details.
- Purchase order creation:
    - Create and send purchase orders to suppliers.
- Purchase tracking:
    - Track order status (pending, shipped, delivered).
- Stock updates:
    - Automatically update stock upon receiving items.
- Purchase reports:
    - View purchase history and supplier performance.

Admin Panel:

- Product CRUD operations (Create, Read, Update, Delete).
- Order management:
    - View, approve, cancel orders.
- User management:
    - View and deactivate accounts if needed.
- Reporting dashboard:
    - Sales reports, product performance.

Payment Integration:

- Secure payment processing through PayPal.
- Option for future integration with credit/debit cards.

Responsive Design:

- Optimized for desktops, tablets, and mobile devices.

Shipping Management:

- Basic shipping rate calculation based on location.
- Integration with USPS or FedEx for tracking (optional).

2. Optional Features (For Future Expansion)

Wishlist:

- Allow customers to save items for later purchase.

Discount Coupons:

- Code-based discounts.

Product Reviews and Ratings:

- Allow customers to provide feedback.

Social Media Integration:

- Share products on platforms like Facebook, Instagram.

3. Technology Stack

Option 1:

- **Frontend:** HTML, CSS, JavaScript (basic libraries like jQuery or frameworks like React.js).
- **Backend:** PHP or Node.js (cost-effective and widely supported).
- **Database:** MySQL or PostgreSQL (reliable and open-source).
- **Hosting:** Shared hosting or AWS Free Tier (initial deployment).
- **Costing:**
    - Development Cost: Low (readily available resources and frameworks).
    - Hosting Cost: Minimal with shared hosting or AWS Free Tier options.
    - Maintenance Cost: Moderate (depending on scaling).

Option 2:

- **Frontend:** HTML, CSS, JavaScript (React.js or jQuery for dynamic UIs).
- **Backend:** Python with Django (secure, scalable, and robust).
- **Database:** PostgreSQL or MariaDB (open-source and efficient).
- **Hosting:** PythonAnywhere, Heroku (free/basic plans), or AWS Free Tier (Elastic Beanstalk, RDS).
- **Costing:**
    - Development Cost: Moderate (requires Python/Django expertise).
    - Hosting Cost: Low to Moderate (initial hosting can be free on PythonAnywhere or Heroku).
    - Maintenance Cost: Lower long-term due to Django's reliability and scalability.

4. Additional Notes

- Focus on minimalistic and user-friendly design.
- Implement secure coding practices to protect sensitive data.
- Ensure scalable architecture for future expansion.

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Detailed E-Commerce Platform UI for RMG Products

1. Homepage

- **Header (Sticky Navigation Bar)**:
    - Logo on the left (e.g., "GarmentShop").
    - A central **Search Bar** with a dropdown for categories (Men, Women, Kids, Accessories).
    - A **Cart Icon** showing the item count.
    - Login/Signup buttons on the right.

- **Hero Banner**:
  - Rotating banner with high-quality images of garments.
  - Overlay text such as "Winter Collection - Up to 50% Off" and a **CTA Button**: "Shop Now."
- **Category Section**:
  - Horizontal tiles for categories:
    - Men (image of formal wear).
    - Women (image of dresses).
    - Kids (image of colorful outfits).
- **Featured Products**:
  - Grid layout (4 columns):
    - **Product Card**:
      - Image with a hover effect (shows alternate angles).
      - Product name, price, and rating (stars).
      - "Quick View" and "Add to Cart" buttons.
- **Footer**:
  - Contact details, links to privacy policy, terms, and social media icons.

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2. Product Details Page

- **Main Section**:
  - Large product image (zoomable).
  - Carousel of other angles/colors.
- **Details Section**:
  - Product name, price, and description.
  - Size and color dropdowns.
  - Quantity selector and **Add to Cart** button.
- **Related Products**:
  - Scrollable carousel of similar items with smaller product cards.

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3. Cart Page

- **Cart Item List**:
  - Thumbnail, name, price, quantity selector, and remove button.
- **Price Summary**:
  - Subtotal, shipping cost, and total.
  - **Proceed to Checkout Button**.

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4. Checkout Page

- **Steps**:
  1. **Address**: Input form or pre-saved addresses.
  2. **Shipping**: Dropdown for available shipping methods.
  3. **Payment**: Select PayPal, add coupon codes.
  4. **Review**: Confirm items, costs, and delivery details.

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5. Admin Dashboard

- **Navigation Menu**:
  - Sidebar with options for Products, Orders, Users, and Reports.
- **Main Dashboard**:
  - Widgets for:
    - Total Sales
    - Inventory Alerts
    - Recent Orders
  - Interactive charts for sales trends.