### Test plan for <https://www.demoblaze.com/>

### Test Plan Overview :

**Objective**: Ensure that the main functionalities of Demoblaze—user management, product interaction, and transaction processes—are efficient, secure, and user-friendly.

### 1. List of Test Ideas/Bullet Points

**Functional Testing**

* **User Registration and Login**:
  1. Test successful registration and log in with valid credentials.
  2. Test response with invalid credentials or missing fields.
  3. Check password recovery and reset functionalities.
* **Product Browsing**:
  1. Verify that all products are displayed with accurate information (price, descriptions, images).
  2. Test filters and search functionality for efficiency and accuracy.
* **Cart Operations**:
  1. Test adding, removing, and updating quantities of products in the cart.
  2. Verify cart persistence upon logging out and back in.
* **Checkout and Payment**:
  1. Simulate purchase transactions using different payment methods.
  2. Test input validations for payment information and error handling for failed transactions.
* **Order History**:
  1. Verify that completed orders are correctly reflected in the user’s order history.
  2. Test the functionality to view detailed order receipts.

**Usability Testing**

* **Navigation**:
  + Ensure that navigation is intuitive and all links lead to the correct pages.
  + Test the responsiveness of menus and clickable elements on various devices.
* **Accessibility**:
  + Test font sizes, color contrasts, and keyboard navigability.

**Performance Testing**

* **Load Testing**:
  + Determine how the system performs under high user load, especially during checkout.

**Security Testing**

* **Secure Transactions**:
  + Ensure encryption of data during transmission, especially payment details.

**Compatibility Testing**

* **Cross-Browser Testing**:
  + Verify that the application works seamlessly across different browsers.
* **Mobile Responsiveness**:
  + Test the application on various mobile devices to ensure intact layouts and functionalities.

**API Testing**

* **Backend Integration**:
  + Validate all API calls for product listings, user management, order processing, etc., for correct responses and error handling.

**2. Prioritization of Test Cases**

**High Priority**

* **Checkout and Payment Process**:
  + Critical for business transactions and directly impacts revenue.
* **User Registration and Login**:
  + Essential for personalized user experience and order tracking.
* **Product Browsing Accuracy**:
  + Directly affects user experience and purchase decisions.

**Medium Priority**

* **Cart Operations**:
  + Important for user experience but less critical than payment processing.
* **Order History**:
  + Important for post-purchase customer satisfaction but does not directly impact purchasing ability.

**Low Priority**

* **Cross-Browser and Mobile Responsiveness**:
  + Essential for reaching a broader audience but can initially focus on major browsers and devices.