Tasting Error Handling and Backend Integration Refinementackend [E-Commarce Website]

NEW FURNITURE COLLECTION TRENDS – 2024

TESTING

Day 5 was dedicated to the final stages of preparing the my e-commerce online shopping place called " The new furniture collection trends – 2024" focusing on ensuring it operates smoothly and efficiently for end users. Here's a breakdown of some key activities typically involved in this process:

The key features and areas of focus would generally include the following:

1. Performance Optimization
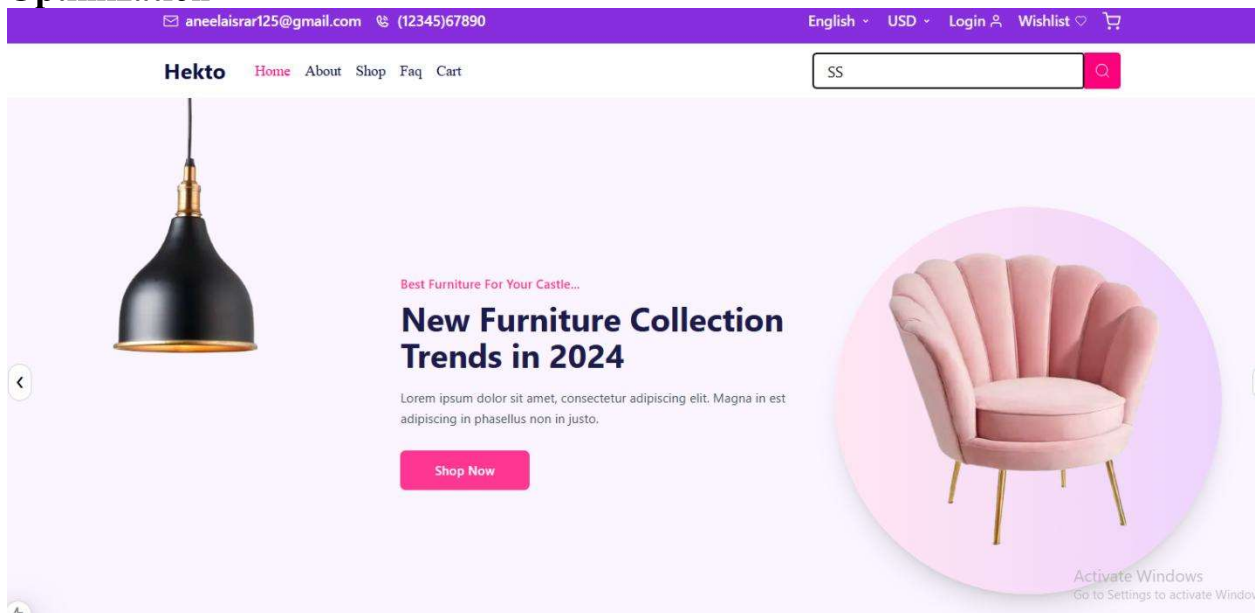
s

- **Page Load Speed**: Optimize images, minify JavaScript and CSS, and leverage caching to reduce load times.
- **Database Optimization**: Indexing key search fields, optimizing queries, and reducing unnecessary database calls to ensure fast search results and smooth transactions.
- **Server Response Times**: Implement content delivery networks (CDNs) to cache static resources and reduce server load.
- **Scalability**: Ensure that the system can handle an increase in users, especially during peak traffic times (e.g., sales or holidays).

2. Comprehensive Functional TestingProduct Browsing: Test the search, filtering, and sorting capabilities to ensure users can easily find furniture based on categories, price ranges, or attributes like size and

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color

Trending Products

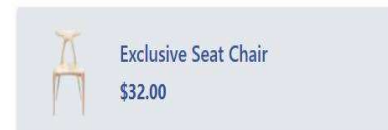| Cantilever Chair	Cantilever Chair	Cantilever Chair	Cantilever Chair
$26.00 $42.00	$26.00 $42.00	$26.00 $42.00	$26.00 $42.00

23% Off in all produ

Shop Now

23% Off in all products

View Collection

Exclusive Seat Chair
$32.00

Exclusive Seat Chair
$32.00

Exclusive Seat Chair
$32.00

3.Shopping Cart & Checkout: Validate the functionality of adding/removing items from the cart, applying discounts or promotional codes, and processing payments securely.

-
- **User Authentication**: Ensure login, sign-up, and password recovery features work seamlessly. Test third-party logins (like Google or Facebook).
- **Order Tracking**: Test that users can view their order status, track shipments, and receive accurate delivery

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updates.
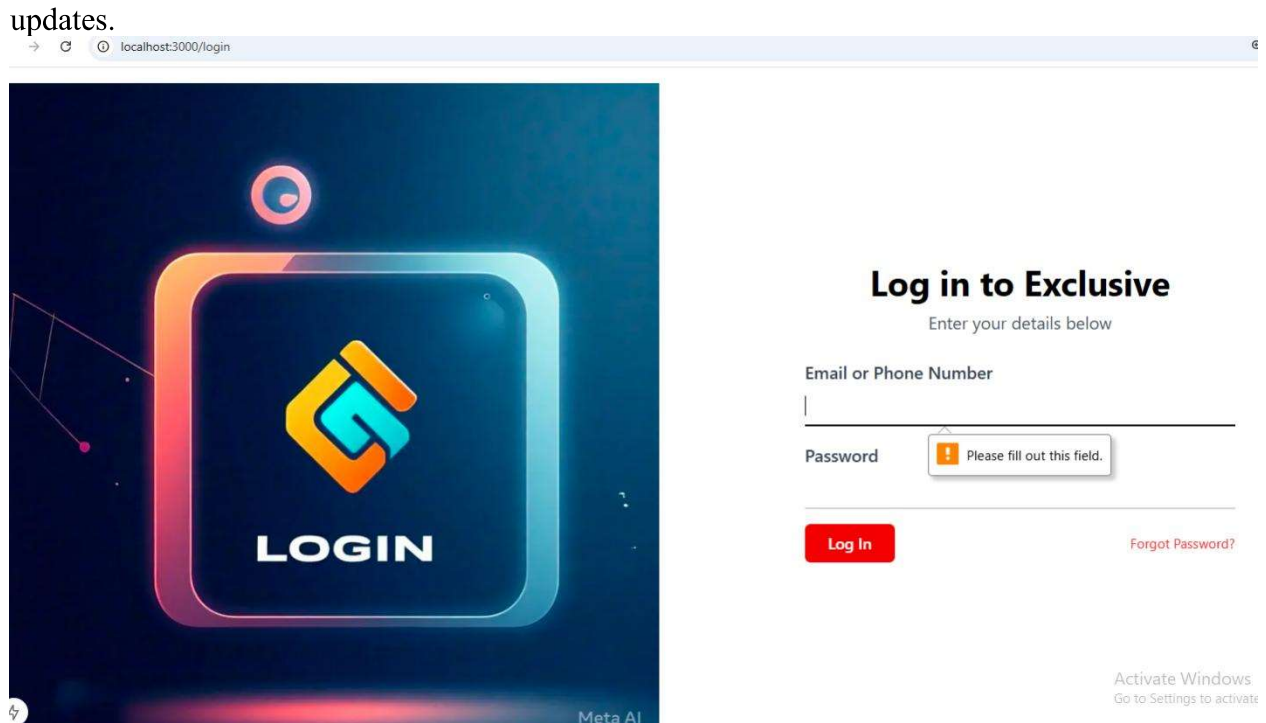
## 3. Mobile and Cross-Browser Compatibility

- **Responsive Design**: Ensure the marketplace is mobile-friendly and works across different devices (smartphones, tablets, desktops) and screen sizes.
- **Cross-Browser Testing**: Test the marketplace on all major browsers (Chrome, Firefox, Safari, Edge) to ensure consistent behavior.

4. Error Handling & Robustness

- **Graceful Degradation**: Handle unexpected errors with user-friendly error messages rather than crashing the application. For example, if a payment gateway fails, provide a clear message for the user to retry.
- **Boundary Testing**: Ensure that the system handles edge cases such as very large or very small product quantities, extreme discount values, or large image

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uploads.
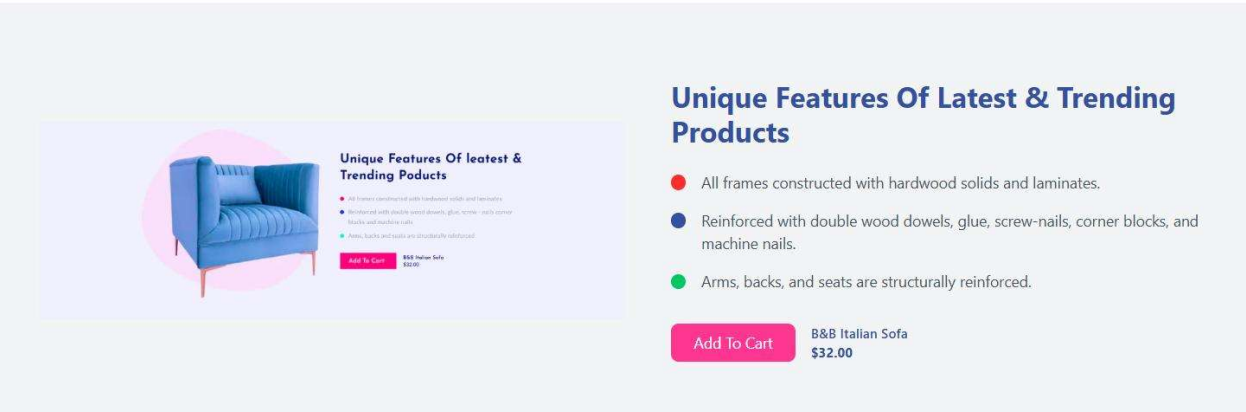
5. Security Measures

- **Data Encryption**: Ensure that sensitive data (such as payment details, user information) is encrypted both in transit (SSL/TLS) and at rest.
- **Payment Gateway Integration**: Test integration with payment processors (e.g., Stripe, PayPal) for secure transactions and fraud prevention.
- **User Privacy**: Implement privacy policies and ensure that user data is handled in compliance with regulations like GDPR (General Data Protection Regulation).

6. User Experience (UX) & Interface (UI) Testing

- **Navigati**are prominent and easy to find.
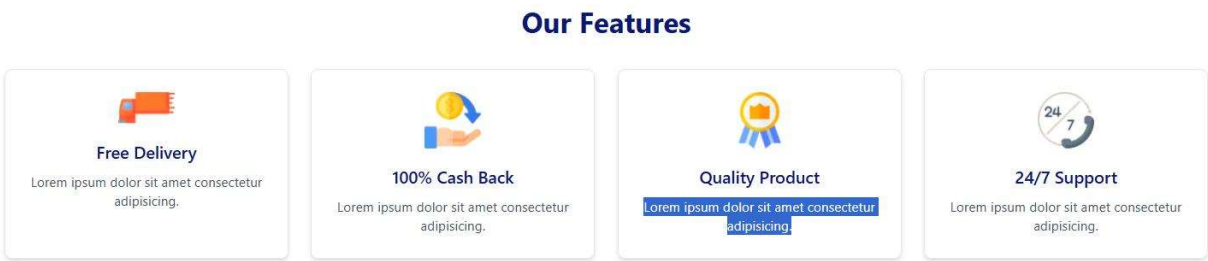
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- **Customer Support**: Ensure that live chat, FAQs, or contact forms work, offering users help when they need it.

7. Error-Free Checkout Process

- **Payment Gateway Testing**: Ensure the payment process works flawlessly by testing different payment methods (credit cards, digital wallets).

- **Transaction Validation**: Ensure that transactions are properly recorded in the backend, preventing issues like doub**on & Accessibility**: Test the user journey from browsing to checkout. Ensure users can navigate the platform easily and that it's accessible (e.g., with screen reader compatibility).

- **Clear Call to Action**: Verify that important elements (e.g., "Add to Cart," "Checkout," "Filters") le charging or missing orders.

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- **Tax and Shipping Calculations**: Confirm that tax and shipping fees are calculated correctly based on the user's location.

Product	Price	Quantity	Total
Product 1 Color: Red, Size: M	$30.00	2	$60.00
Product 2 Color: Blue, Size: L	$45.00	1	$45.00

Update Cart   Clear Cart

Cart Totals

Subtotal: $105.00
Totals: $120.00

Proceed To Checkout

Calculate Shipping

Bangladesh

Mirpur, Dhaka - 1200

Postal Code

Calculate Shipping

8. Search and Filtering

- **Search Accuracy**: Test the search functionality to ensure that users can find the products they're looking for with relevant keywords.
- **Filter Testing**: Verify that filters (by price, category, size, color, etc.) work properly and return the correct product results.

9. Load Testing

- **Stress Testing**: Simulate high user traffic (e.g., during sales events or holidays) to determine how the system behaves under heavy load and to ensure it doesn't crash or slow down.
- **Concurrency Testing**: Test how multiple users interacting with the marketplace at the same time impact

performance.
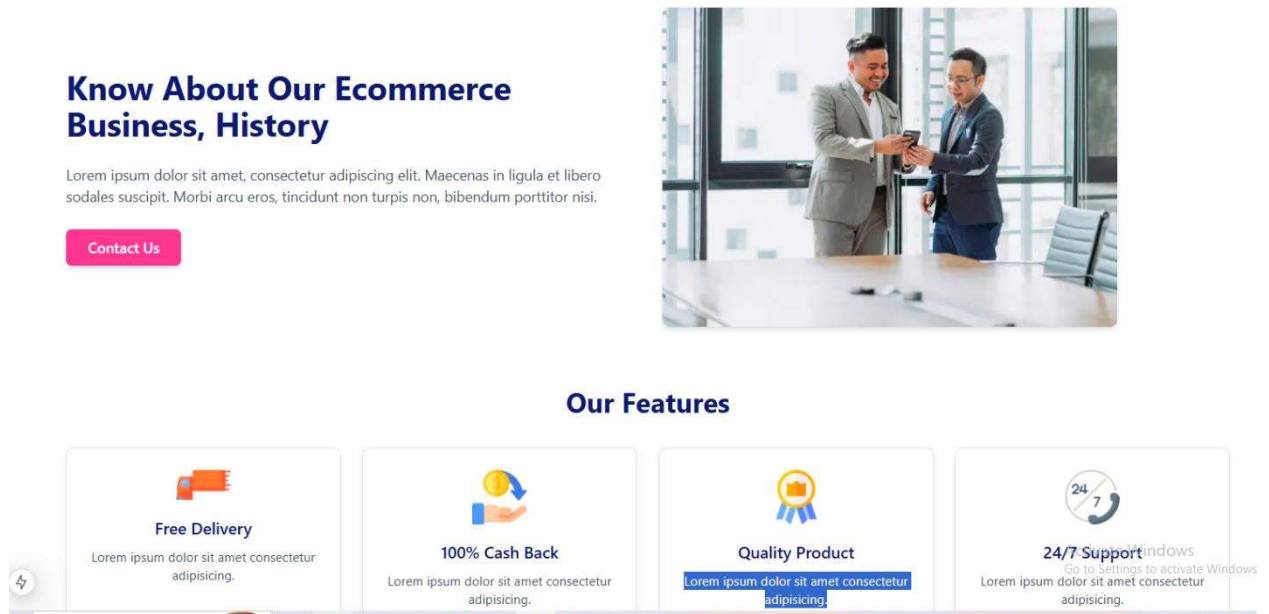
10. Backup and Recovery Testing

- **Data Integrity**: Ensure data consistency and backups are in place in case of server crashes or unexpected downtime.
- **Disaster Recovery**: Test the process for restoring the site and ensuring minimal downtime in case of failure.
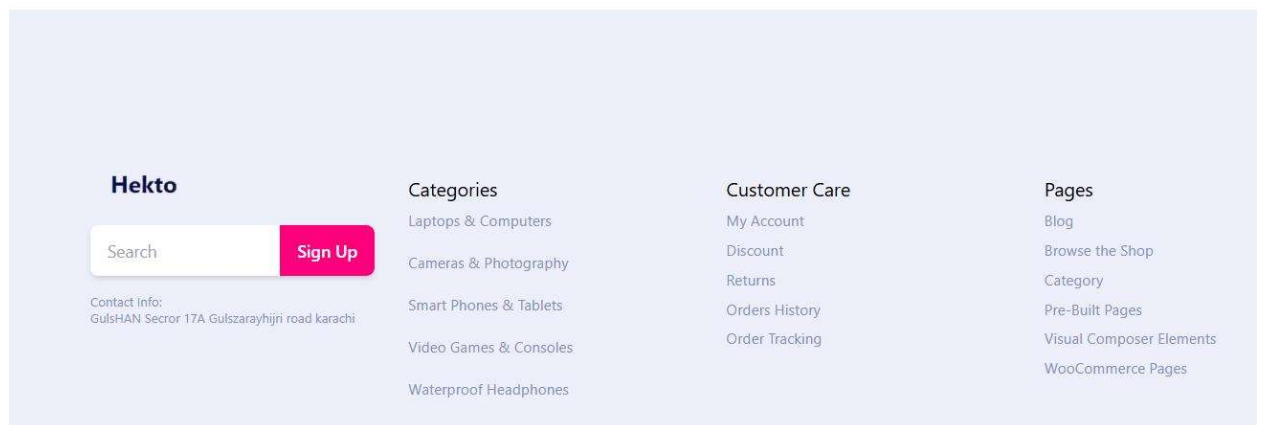
CONCLUTION

By focusing on these key features, The new furniture collection trends – 2024 can be optimized for high performance, security, and user satisfaction before it goes live.

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