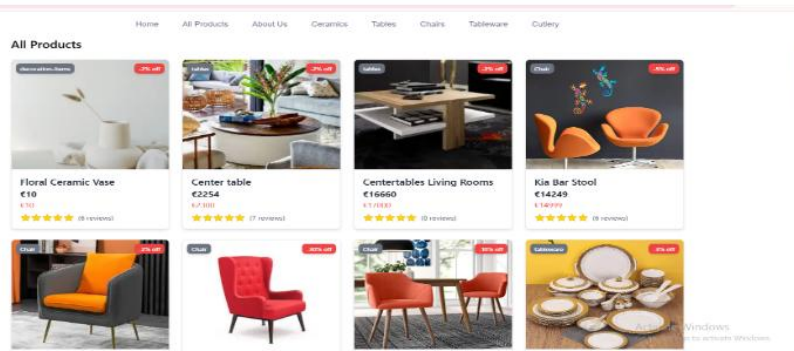


Step-01 Initialization and Testing

Test Core Features:

Checked Product Display on Homepage

Opened the homepage in the browser to ensure that the products are being displayed properly



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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

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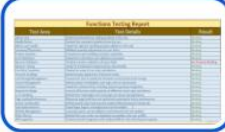
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| Functions Testing Report | | |
|--------------------------|--|----------------------|
| Test Area | Test Details | Result |
| Add to Cart | Verified functionality for adding products to the cart. | Working |
| Handle Delete | Checked the removal of products from the cart. | Working |
| Add to Cart Handle | Tested the logic for handling product addition to the cart | Working |
| Increment/Decrement | Validated quantity adjustments for cart items | Working |
| Product Quantity | Ensured accurate handling of product quantities. | Working |
| Form Submission | Tested form submission and validation processes. | Working |
| Dynamic Validation | Verified real-time validation of input fields | Not Properly Working |
| Dynamic Testing | Tested UI and backend responsiveness dynamically. | Working |
| Cart Price Caculation | Checked accuracy of cart price calculations. | Working |
| Discount Handling | Verified proper application of discount codes. | Working |
| Local Storage Management | Ensured cart data is saved and retrieved correctly from local storage | Working |
| Session Management | Verified session handling for user login and cart persistence. | Working |
| Checkout Process | Tested the checkout flow, including payment gateway integration. | Working |
| Responsive Design | Ensured all features work properly on different screen sizes and devices. | Working |
| Error Handling | Verified that meaningful error messages are shown during failures. | Working |
| Page Loading Performance | Measured page load time and optimized rendering for better performance. | Working |
| Search Functionality | Verified search input and accurate product filtering based on keywords. | Working |
| User Authentication | Tested login, logout, and registration functionalities. | Working |
| Wishlist Management | Ensured products can be added to and removed from the wishlist. | Working |
| Order History | Verified that past orders are displayed accurately in the user profile. | Working |
| API Integration | Checked smooth integration with backend APIs for data fetching and updates | Working |

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Thumbnail 1: Project Overview

Thumbnail 2: Project Details

Thumbnail 3: Project Summary

Thumbnail 4: Project Report

Thumbnail 5: Project Success

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Order Success

Avion

Home All Products About Us Ceramics Tables Chairs Tableware Cutlery

Order Success

Order Successfully Placed!

Thank you, Uma Ahmed! Your order has been successfully placed and is being processed.

You will receive an email with the order details shortly.

Continue Shopping

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Checkout Report & Order Summary

| Avion | | | |
|---|---------|----------|---------|
| Home All Products About Us Ceramics Tables Chairs Tableware Cutlery | | | |
| Checkout | | | |
| PRODUCT | PRICE | QUANTITY | TOTAL |
| Osprey Linenweave Set | \$14000 | 1 | \$14000 |
| Aurora ceramic | \$6 | 1 | \$6 |
| Germany Platinum & Gold Plated | \$12 | 1 | \$12 |
| Wenzel Deluxe Ceramic Wooden Center Table | \$12000 | 1 | \$12000 |
| Linumweave Set | \$11000 | 1 | \$11000 |
| Order Summary | | | |
| Name: Uzma Ahmed | | | |
| Email: uzmaahmed64uk@gmail.com | | | |
| Address: Karachi, Pakistan | | | |
| Shipping Date & Time: January 22, 2025 at 05:21 AM | | | |
| Subtotal: | | | \$17018 |
| Shipping: | | | Free |
| Total: | | | \$37018 |
| Complete Purchase | | | |

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8



Implemented a loader on the frontend to indicate a loading state while data is being fetched, ensuring an enhanced user experience.

9



Implemented error handling to gracefully manage errors during data fetching. The application displays clear error messages and provides a retry option to the user.

10



Implemented performance testing to evaluate the application's loading state and error handling. The application is tested for stability and performance under various conditions.

11



Implemented performance testing to evaluate the application's loading state and error handling. The application is tested for stability and performance under various conditions.

12



Implemented performance testing to evaluate the application's loading state and error handling. The application is tested for stability and performance under various conditions.

Loader Display

- Implemented a loader on the frontend to indicate a loading state while data is being fetched, ensuring an enhanced user experience.

Error Handling in Data Fetching

- Try-Catch Block:** Incorporated a try-catch block to manage errors during data fetching. The catch block handles any issues that arise.
- User-Friendly Error Message:** Displayed a clear, concise error message to inform users of issues and provide a retry option.
- Developer Debugging:** Used `console.error` to log detailed error information, aiding developers in troubleshooting.
- Loading and Error Flow:** Managed a loading state to show feedback during data fetching. The UI updates dynamically based on the success or failure of the fetch operation.
- Retry Option (Optional):** Included an optional retry feature, allowing users to attempt fetching data again if an error occurs.

Performance Testing

- Load Testing:** Simulated multiple users accessing the application simultaneously to verify stability and prevent crashes under high traffic.
- Response Time Measurement:** Assessed data fetching response times to ensure they meet acceptable benchmarks. Applied optimizations if delays were identified.
- Data Fetching Efficiency:** Evaluated the efficiency of the data fetching process to minimize delays and ensure smooth navigation, even with large datasets.
- Rendering Optimization:** Improved rendering performance by ensuring components re-render only when necessary, reducing unnecessary load on the browser.



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Collecting Data from User Form: • collected user-specific data dynamically from the form.

Adding Customers to Sanity Dataset

- Integrated user data directly into the Sanity CMS dataset without defining a schema, utilizing `client.create()` to add customer documents.

Email Validation

- Implemented an email validation mechanism to prevent duplicate customer entries. If a customer with the same email already exists, a new entry is not created.

Duplicate Customer Verification

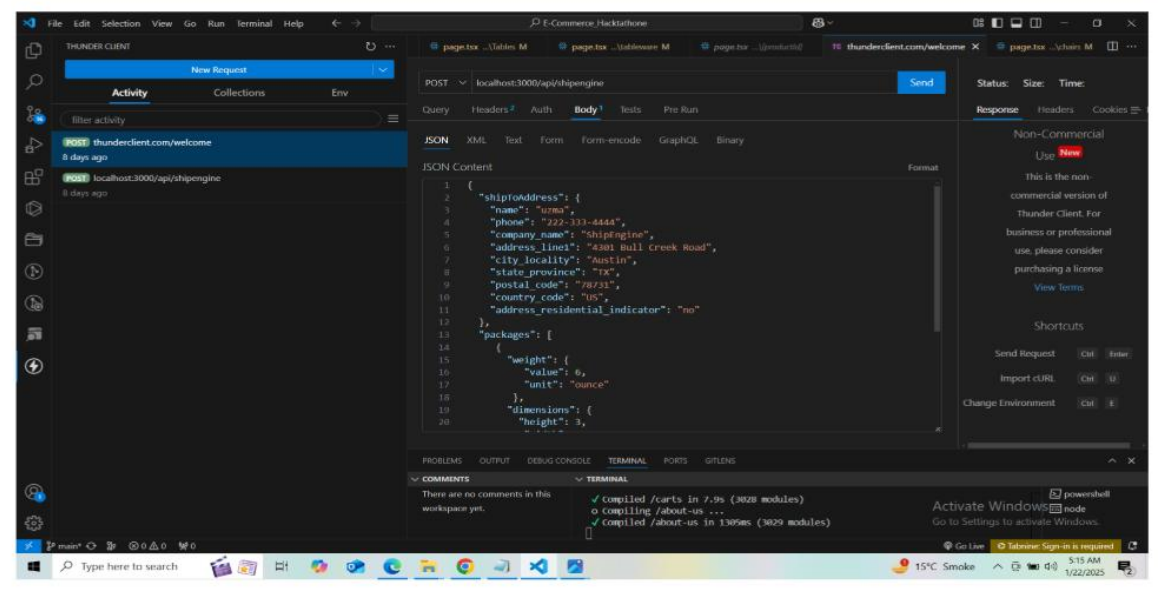
- Before adding a customer, executed a query in Sanity using the email field to identify existing records with the same email. If a match is found, the creation process is halted.

Implementation Insights

- Effectively managed dynamic data and ensured it was stored in Sanity CMS with proper validation, avoiding duplicate records.

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Postman API Testing Tested APIs using Postman to verify their functionality and response accuracy.



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5 Filters and Search Functionality Testing



6 Add to Cart Functionality Testing



7 User Authentication Functionality Testing



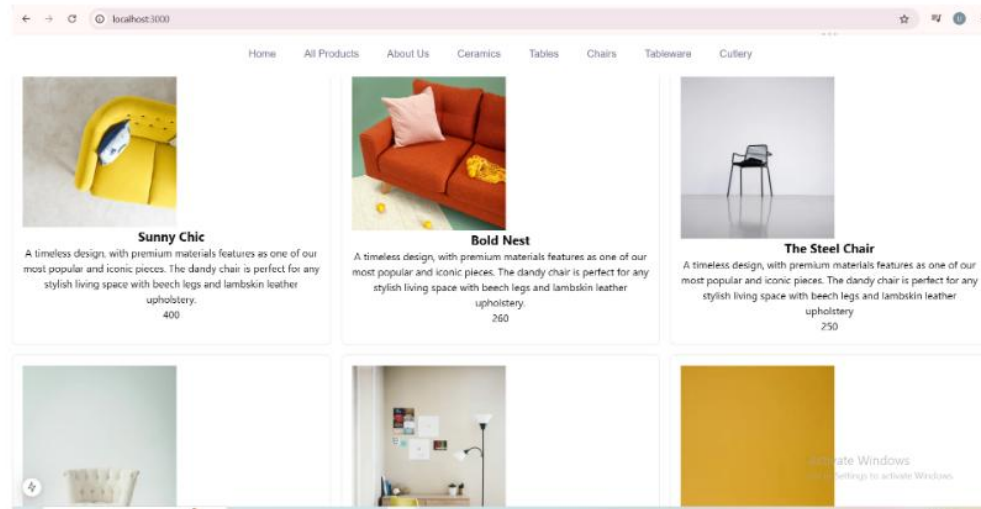
8 Database Functionality Testing



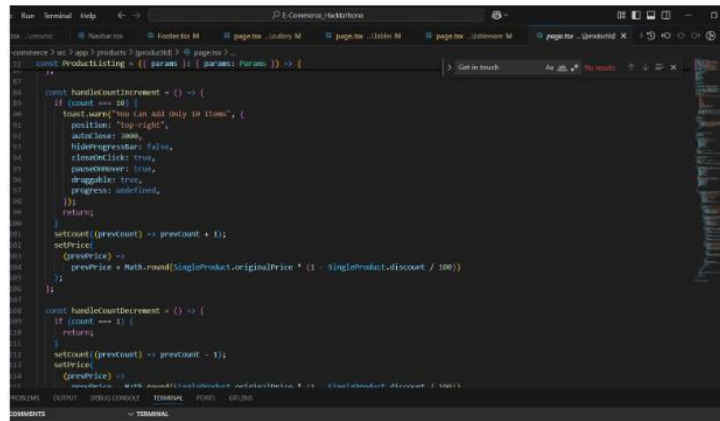
9 Dynamic Data Fetch from Sanity



"Dynamic Data Fetch from Sanity" Detail: This fetches content dynamically from Sanity, using queries to display the relevant information such as titles and descriptions.



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calculations and automatic discounts worked properly. Discounts were displayed with a label, and the total price reflected the changes correctly. Reducer Function: Ensured the reducer function managed the cart state accurately. Dynamic Testing: Verified that no errors occurred during the dynamic testing of 12 projects, with all components loading properly.

3

Ensured that the filter and search bar are displaying results accurately based on user input



4

Filter and Search Functionality Testing



5

Filters and Search Functionality Testing



6

Add to Cart Functionality: Ensured that clicking the 'Add to Cart' button successfully adds items to the cart.



7

Handle Delete Function: Ensured items could be removed from the cart without any issues. Increment and Decrement Functions: Tested the functionality to increase or decrease the product quantity in the cart. Product Quantity Validation: Confirmed that product quantities update accurately and reflect in real time. Cart Functionality: Confirmed that price








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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

Home / Cart

Your Shopping Cart

| PRODUCT | PRICE | QUANTITY | DELETE |
|---|--------|---|--|
|  Glaze Dinnerware Set | €13720 | <input type="button" value="-"/> 1 <input data-bbox="1541 576 1568 608" type="button" value="+"/> | <input data-bbox="1601 576 1624 608" type="button" value="X"/> |
|  Awesome ceramic | €5 | <input type="button" value="-"/> 1 <input data-bbox="1541 624 1568 655" type="button" value="+"/> | <input data-bbox="1601 624 1624 655" type="button" value="X"/> |
|  Germany Platinum & Gold Plated | €12 | <input type="button" value="-"/> 1 <input data-bbox="1541 671 1568 703" type="button" value="+"/> | <input data-bbox="1601 671 1624 703" type="button" value="X"/> |
|  Wenger Deluxe Elegant Wooden Center Table | €11790 | <input type="button" value="-"/> 1 <input data-bbox="1541 719 1568 751" type="button" value="+"/> | <input data-bbox="1601 719 1624 751" type="button" value="X"/> |
|  Dinnerware Set | €10670 | <input type="button" value="-"/> 1 <input data-bbox="1541 767 1568 799" type="button" value="+"/> | <input data-bbox="1601 767 1624 799" type="button" value="X"/> |

Cart Total

Subtotal: €36168

Shipping: Free

Total: €36168

[Go to checkout](#)

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Setup Installation and Testing



3

Ensured that the filters and search bar are displaying results accurately based on user input.



4

Filters and Search Functionality Testing



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Filters and Search Functionality Testing



6

Add to Cart Function: Verified that clicking the "Add to Cart" button successfully adds items to the cart.



Add to Cart Function: Verified that clicking the "Add to Cart" button successfully adds items to the cart.

Home All Products About Us Ceramics Tables Chairs Tableware Cutlery



Modern Chairs for Living Room

€5

€5

Description

Modern Chairs for Living Room Discover the prime of luxury with our Velvet Elegance Chairs. Modern chairs for living room, the ergonomic design, including a curved backrest and armrests, provides unparalleled relaxation, making every moment a retreat. Furthermore, these versatile chairs effortlessly blend style with functionality, while floor protection and sturdy construction ensure both elegance and durability. Elevate your space with these beautiful chairs and redefine your living experience.

- Premium material
- Handmade upholstery
- Quality timeless classic

Dimensions

| | | |
|--------|-------|-------|
| Height | Width | Depth |
| 7cm | 8cm | 8cm |

Amount:

Add to cart

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You might also like

Local Storage Integration: Used the useAtom hook from Jotai to store cart items in local storage. Verified that the cart data loaded correctly during page reloads without errors.



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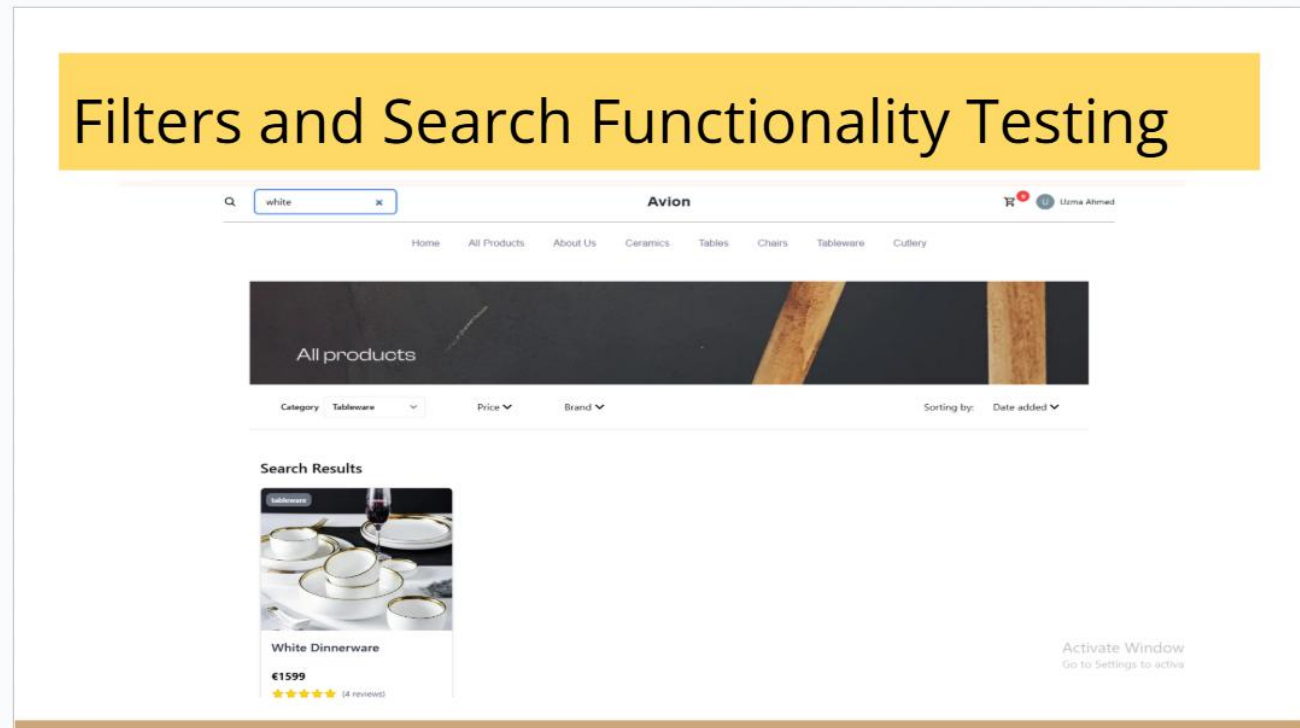


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Filters and Search Functionality Testing



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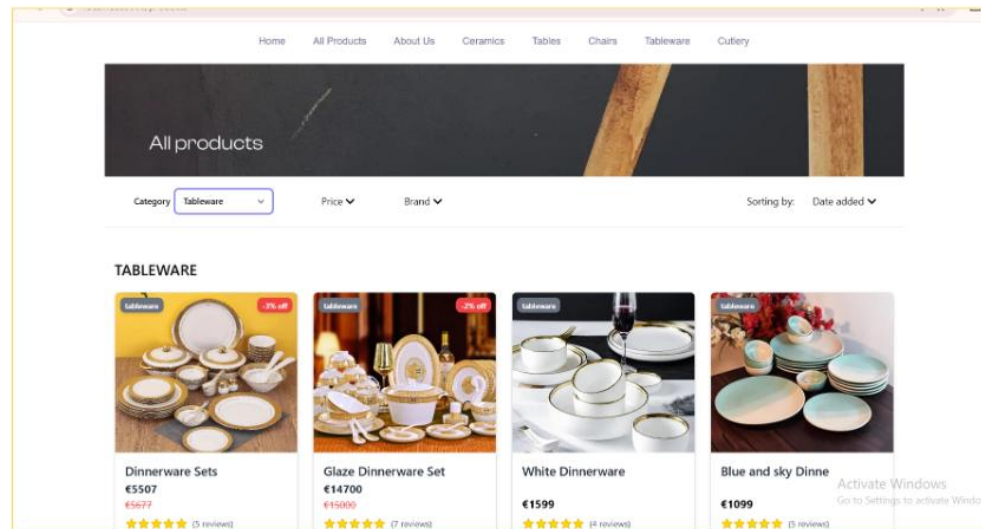


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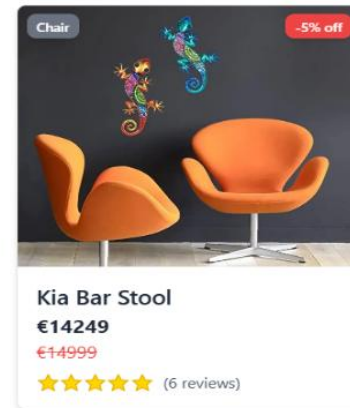
Filters and Search Functionality Testing



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Ensured that the filters and search bar are displaying results accurately based on user input



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Uzma Ahmed

Roll No# 00448632 Sunday (2pm to 5pm)

Day_5_Testing_Error_Handling_and_Backend_Integration_Refinement

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