AMAZON TESTING PROJECT

Project-1 Report
Submitted in partial fulfillment of the requirement for the award of Degree of
Bachelor of Engineering in **CSE**

Submitted to

ICT ACADEMY

ISO: 9001-2000

PROJECT-1 REPORT
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Session 2024-2025

TECHNOCRATS INSTITUTE OF TECHNOLOGY EXCELLENCE,BHOPAL
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DECLARATION

I am Ritik Kumar Tembhurne student of Bachelor of Engineering**, TECHNOCRATS INSTITUTE OF TECHNOLOGY EXCELLENCE, Bhopal,** hereby declare that the work presentedin this Project is outcome of our own work and is correct to the best of our knowledge. This work has been carried out taking care of Engineering Ethics.

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Date - 26-10-2024

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Introduction :

This report evaluates the user experience of accessing Amazon's **Mobiles and Accessories** section, applying a price filter, and arranging products in ascending order. The purpose of this evaluation is to assess Amazon's navigation flow, user accessibility, and the efficiency of locating budget-friendly mobile options using automated and manual testing techniques.

Objective :

The primary goal of this project was to implement automated testing for Amazon to ensure functionality and usability.

Scope of Testing

The testing focused on the following aspects of Amazon's functionality:

1. Homepage Navigation – Ensuring users can reach relevant product sections efficiently.

2. Category Selection – Testing the ease of locating subcategories like "Mobile Phones."

3. Filtering Mechanisms – Validating the functionality of filters such as "Sort by Price: Low to High" and ensuring accurate sorting.

4. Cross-category Navigation – Assessing the ability to switch between categories like Electronics and Camera & Photography without losing the context or progress.

5. Responsiveness – Verifying page responsiveness across devices (desktop, mobile, and tablet).

6. Search and Accessibility – Ensuring the search bar and breadcrumb navigation work intuitively.

User Journey and Navigation Steps

Step 1: Accessing the Amazon Website

- Open a web browser (e.g., Google Chrome) and search for Amazon.

- Select the official Amazon website from the search results to ensure a secure browsing experience.

Step 2: Navigating to the Mobiles and Accessories Section

- On the homepage, locate the All Categories menu or use the search bar to find the Mobiles and Accessories section.

- Proceed to the Mobile Phones subcategory for product exploration.

Step 3: Sorting Products by Price

- In the Mobile Phones category, locate the "Sort by" dropdown menu near the top of the product list.

- Select "Price: Low to High" to display products sorted by ascending price order.

Step 4: Exploring the Electronics Section

- Return to the homepage or use the main navigation menu to access the Electronics section.

- Explore additional subcategories, such as Camera & Photography, to test category navigation consistency.

Step 5: Using Filters for Specific Searches

- Apply filters such as brand, price range, and customer ratings to evaluate the functionality and accuracy of Amazon's filtering system.

- Test the Clear All Filters option to ensure a seamless reset of the search parameters.

Step 6: Accessibility Testing

- Verify that all features are accessible using keyboard navigation, screen readers, and alternative text for icons.
- Assess whether the mobile interface provides the same level of usability and functionality as the desktop version.

Step 7: Performing a Search Query

- Use the search bar to directly search for specific mobile brands (e.g., "Samsung" or "OnePlus") to validate the relevance and accuracy of search results.

Observations

Ease of Navigation

Amazon's structured and categorized layout allows users to locate specific sections with minimal effort. The consistent design between desktop and mobile interfaces enhances the overall user experience.

Filtering and Sorting Options

The Sort by Price: Low to High filter worked as expected, arranging products accurately. Additional filters like brand, price range, and customer reviews were functional and provided relevant results. However, combining multiple filters sometimes led to slower page load times.

Search Functionality

The search bar quickly and accurately directed users to desired categories or products. Breadcrumb navigation further simplified movement between pages.

Accessibility

The website performed well in keyboard navigation and screen reader tests, ensuring inclusivity for differently-abled users. Mobile responsiveness was

excellent, but some dropdowns required extra scrolling on smaller screens.

Cross-category Navigation

Switching between categories, such as from Mobile Phones to Camera & Photography, was smooth. However, there was room for improvement in maintaining filter selections when switching sections.

Conclusion

Amazon's Mobiles and Accessories section provides a reliable, efficient, and user-friendly experience for shoppers. Features like the Sort by Price: Low to High filter and detailed category navigation make it easy for users to find budget-friendly products quickly.

Strengths

1. User-friendly Interface: Intuitive design and clear navigation paths.

2. Wide Filter Options: Robust filtering capabilities cater to diverse shopping preferences.

3. Accessibility: Strong performance in screen reader and mobile usability tests.

Areas for Improvement

1. Performance Optimization: Reduce lag when applying multiple filters simultaneously.

2. Highlighted Filters: Highlight active filters more prominently for better visibility.

3. Quick Budget Filters: Adding predefined budget ranges (e.g., "Under ₹10,000") could enhance the user experience for budget-conscious shoppers.

Overall, Amazon successfully balances usability and functionality, maintaining

its reputation as a leading e-commerce platform. Regular performance audits and UX updates can ensure the platform continues to deliver a seamless shopping experience.

Future Testing Suggestions

1. Automated regression testing for sorting and filtering functionality.

2. Load testing for handling high traffic during sales and promotional events.

3. Comprehensive testing of accessibility features for compliance with WCAG 2.1 standards.