* **Title** : Software Testing Analysis of Amazon shopping Application.
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1. **Introduction:**

**Amazon is one of the largest and most widely used e-commerce platforms. It allows users to search , purchase, and manage a variety of products through its mobile application and website . Given its vast user base and multiple functionalities , software testing is essential to ensure a seamless, secure, and bug -free experience.**

1. **Objective of Testing:**

The primary objective of testing the Amazon shopping App is:

* To verify that all core functionalities (login, product search, cart, payments, order tracking ) work as expected
* To ensure data integrity and user security
* To evaluate the app’s performance under various conditions
* To confirm compatibility across different devices and operating systems
* To enhance customer experience by identifying and fixing defects

1. **Types of testing performed**
2. **\*\* Functional Testing\*\***

Ensures that all core features like login, product search, add to cart, wish list, checkout, and payment work correctly.

1. **\*\* UI/UX Testing\*\***

Validates the user interface design, layout, color scheme, fonts,

and ease of navigation to ensure a smooth user experience.

1. **\*\* Performance Testing\*\***

Test how the app performs under different conditions - such high traffic during sales - by measuring response time, load handling , and speed.

1. **\*\*Security Testing\*\***

**C**hecks the safety of sensitive user data like passwords, addresses, and payment information. Also ensures secure login and

encryption.

**v. \*\*Compatibility Testing\*\***

**C**onfirms that the app works smoothly across different devices

(Android iOS), screen sizes, and operating systems.

**VI . \*\*Regression Testing\*\***

After updates or bug fixes, this testing ensures that new changes

have not broken existing functionalities.

**VII. \*\*Integration Testing\*\***

Test the interaction between various modules such as search + cart + payment + order tracking to ensure smooth data flow.

**VIII. \*\*User Acceptance Testing (UAT)\*\***

Final testing stage where real users test the app to check if it meets expectations and business requirement.

1. **Sample Test cases**

**\*\*Test case 1 :** Product Search**\*\***

**- Input :** Search for “Bluetooth Headphones”

-  **Expected Result :** Relevant product list is displayed

-  **Status :** Pass

**\*\*Test case 2 :** Add to cart functionality**\*\***

**- Action :** Add selected product to cart

- **Expected Result :** Product appears in the cart

- **Status :** Pass

**\*\*Test case 3 :** Payment Gateway**\*\***

- **Action :** Checkout using Debit card

- **Expected Result :** Payment is successful and order confirmation message is shown

- **Status :** Pass

1. **Conclusion**

**Comprehensive software testing is critical to the success of a platform like Amazon. It ensures functionality, security, performance, and usability for millions of users. A strong testing process improves user satisfaction , reduces bugs, and maintains Amazon’s reputation as a trusted e commerce leader.**

**Thank you**

**Submitted for : Internship Assignment - software testing**