

# Practical Experiment - 3

22/4/25

## Functional and UI/UX Testing of search and product page in E-commerce Application (Amazon / Flipkart)

### Objective:-

To perform functional testing and UI/UX testing on the search and product display functionality of an e-commerce application (Amazon / Flipkart) to verify if the search bar works correctly, products are displayed properly and UI elements are user-friendly.

### Note:-

→ UI (User Interface):- Refers to the visual elements (buttons, menus, icons) of an app or website that users interact with. It's about how it looks.

→ UX (User Experience):- Refers to the overall experience a user has when using an app or website, focusing on how it works and how easy or enjoyable it is to use.

## Software Requirements.

- E-commerce website (Amazon / Flipkart)
- Web Browsers :- chrome, Firefox, edge.
- Testing tools :- Manual Testing,  
Browser Dev tools for UI/UX checks.

## Hardware Requirements.

- Computer with stable internet connection

## Test Scenario.

Test the Search Functionality and Product Display on an e-commerce site :-

- Searching for products.
- Products details display.
- Sorting and filtering options
- UI/UX elements (Buttons, links, layout etc)

## Test steps.

1. Navigate to a website.

- Launch browser and open Amazon or Flipkart website.

2. Search Functionality.

- Enter a product name in the search bar.



- click the search button
- check if relevant products are displayed.

### 3. Product display verification

- Click on a product from search results.
- verify that the product details are displayed.

### 4. Filters and Sorting

- Apply filters (Eg:- price, range, brand)
- verify if products are filtered correctly based on the criteria selected.
- Use Sorting options and check if the Sorting works correctly.

### 5. UI/UX Testing

- check if the search bar is easily accessible
- Ensure the product images are clear and clickable.
- validate if the "Add to cart" and "Buy Now" buttons are easily visible and functional.

### Cross Browser testing

- Repeat the above steps in different browsers to ensure consistency.



## Test case Document. for Flipkart.

Test case ID.	Scenario.	Input/Action	Expected result	Actual result	Status	Comments.
TC_search_001	Search functionality	Enter "smartphone" in search bar	Relevant products should appear.	smartphones appeared	Pass.	Smartphones appear
TC_search_002	Product details display	Click on a product from search results	Products details should display correctly	Product details are displayed	Pass.	Details displayed
TC_search_003	Filter functionality	Apply filters for price, brand, rating	Products should be filtered A/c to selected criteria.	Products filtered A/c to applied filters	Pass.	Products are filtered
TC_search_004	<del>Sorting functionality.</del>	<del>Sort products by price low to high</del>	<del>Products should be sorted.</del>	<del>Products are not sorted</del>	Fail	Need to debug.
TC_UI/UX_001	UI/UX elements visibility	check for search bar, buttons, layout	Search bar should be clearly visible; buttons should be functional	Buttons & search bars are visible & functional	Pass	Buttons are functional
TC_Cross Browser	Cross-browser compatibility	Test in chrome, Firefox, edge	Search functionality & UI should be consistent across browsers	Works on different browsers	Pass.	Working.

## Expected outcome.

- Search functionality should display relevant products based on the search term.
- Products details should be displayed accurately with no broken images or missing info.
- filters and sorting should work as expected to refine search results.
- The UI should be user friendly & responsive across device
- The page should load correctly & function properly in multiple browsers.

## Conclusion.

This experiment helps students understand how to perform functional testing on search and product display features while ensuring value consistency. It also emphasizes the importance of cross-browser compatibility and user-friendly design in real world e-commerce applications.

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