**User Story Ambiguity & Risk Analysis**

**Project: DemoBlaze E-commerce Testing  
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**Overview**

**During the review of the initial user stories for the DemoBlaze platform, several gaps were identified in terms of clarity, scope, and testability. While the stories capture the intended user goals, they lack precision in certain areas. Refining these requirements will improve test coverage, reduce misinterpretation, and prevent potential defects.**

**Below are ten key issues along with recommendations to strengthen the requirements.**

**Issues and Recommendations**

1. **Subjective Language**
   * **Issue: The phrase *“find relevant products quickly”* is subjective and non-measurable.**
   * **Recommendation: Replace with a measurable performance criterion (e.g., *“results load within 2 seconds”*) or remove if performance is out of scope.**
2. **Undefined User Authentication State**
   * **Issue: Stories refer to “a shopper” without clarifying whether they are a guest or a registered user.**
   * **Recommendation: Explicitly state user type, e.g., *“As a guest or registered shopper…”*.**
3. **Vague Cart Management Scope**
   * **Issue: *“Manage my shopping cart”* is too broad and could imply multiple undefined actions.**
   * **Recommendation: Narrow scope to specific actions such as *“view items, remove products, and proceed to checkout.”***
4. **Missing Error and Empty-State Handling**
   * **Issue: Acceptance criteria only cover success cases, ignoring empty or error states.**
   * **Recommendation: Add negative conditions, e.g., *“If category is empty, display ‘No products available.’”***
5. **Assumption of Fixed Categories**
   * **Issue: Stories assume categories like Phones, Laptops, and Monitors will always exist.**
   * **Recommendation: Define that the UI should reflect only active categories retrieved from the backend.**
6. **Undefined Pagination Rules**
   * **Issue: Behavior of “Next” and “Previous” navigation is not defined.**
   * **Recommendation: Specify rules, e.g., *“Each page shows 9 products; Next is disabled on the last page, Previous on the first.”***
7. **Weak Cart Feedback**
   * **Issue: Adding items to the cart only triggers a transient alert, with no persistent confirmation.**
   * **Recommendation: Require a cart icon badge or similar visual indicator of updated item count.**
8. **Unclear Handling of Duplicate Items**
   * **Issue: It is unclear if adding the same product creates duplicates or increments quantity.**
   * **Recommendation: Define behavior: *“Adding an existing item increases quantity by 1.”***
9. **Lack of Input Validation in Checkout**
   * **Issue: Checkout form accepts invalid or empty input (e.g., missing name, invalid card).**
   * **Recommendation: Add validation rules such as *“Empty Name field triggers an error message and prevents submission.”***
10. **No Mobile/Responsive Consideration**
    * **Issue: Stories are written with desktop-only assumptions.**
    * **Recommendation: Include mobile and tablet support, ensuring usability across devices.**

**Conclusion**

**By addressing these issues, the user stories will become clearer, more testable, and less prone to misinterpretation. These refinements align with best practices in requirement engineering and ensure traceability from user needs through to validation in testing.**