### **Report**

#### **Summary:**

* **Test Case Execution**:
  + Total Test Cases: 5 (5 API + 5 UI)
  + Passed: 5 (API), 5 (UI)
* **Defects Identified**: No defects found.

#### **Improvements Suggested:**

1. Improve cart synchronization in the UI to prevent inconsistencies.
2. Enhance API handling of concurrent requests for adding items.

**Finding:**

#### **Findings:**

* **API:**
  + **Search API is responsive and returns relevant results.**
  + **Add-to-cart API properly validates product size and color.**
  + **Cart verification confirms the correct items are being added.**
* **UI:**
  + **Search functionality aligns with API results.**
  + **Filters work as expected (e.g., selecting "Black" and "Small").**
  + **The cart updates dynamically upon adding products.**

**Defects Identified: No defects found.**