

# Documentation

## Test Cases Executed and Results

- **Product Listing:** Products displayed correctly (Passed).
- **Filters and Search:** Debugging required for accurate results (Failed).
- **Cart Operations:** Pending implementation.
- **Dynamic Routing:** Product detail pages function correctly (Passed).

## Performance Optimization Steps

- Thunder Client verified API responses.
- Performance testing tools to be used in the next step.

## Security Measures

- API calls tested securely via Thunder Client.
- Sensitive data secured in environment variables.

## Challenges Faced and Resolutions

- **Filters and Search Issue:** Filters not returning expected results. Plan: Debug API query logic and frontend filter implementation.
- **Cart Operations Pending:** Next priority.

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## Submission Checklist

1. **Functional Deliverables:**
  - Product listing and detail page functionality confirmed.
  - API responses verified.
2. **Testing Report (CSV Format):**
  - Includes Test Case ID, Description, Steps, Expected & Actual Results, Status, Severity Level, and Remarks.

### 3. Documentation:

- Comprehensive test results and findings.
- Performance and security updates detailed.
- Challenges faced with planned resolutions.

### 4. Repository Submission:

- All files uploaded to GitHub with clear folder structure.
- README file updated with testing and refinement details.

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