
Review & Analyze Requirements

ShopperStack E-Commerce Application:

1. Requirement Analysis Overview

Requirement analysis is the process of understanding and reviewing the functional behavior of the ShopperStack application before test design and execution.

In this project, requirements were analyzed based on **application behavior, UI flow, and user interactions**, as no formal SRS document was provided.

The requirements were derived by:

- Exploring the ShopperStack application
 - Understanding user workflows
 - Identifying functional modules
 - Reviewing application responses and validations
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2. Source of Requirements

Since ShopperStack is a practice application, requirements were gathered from:

- Application UI and navigation flow
 - User actions and system responses
 - Expected behavior of standard e-commerce applications
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3. Identified Functional Modules

Based on analysis, the following modules were identified:

1. User Authentication
 2. Home Page Navigation
 3. Product Search
 4. Product Details Page
 5. Wishlist Management
 6. Address Management
 7. Profile Management
 8. Change Password
 9. Product Review Submission
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4. Functional Requirements

4.1 User Authentication

- The system should allow registered users to login with valid credentials.
 - The system should display an error message for invalid credentials.
 - The user should be able to logout successfully.
 - The session should end after logout.
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4.2 Home Page

- The home page should display product categories.
 - The home page should allow navigation to different modules.
 - The logged-in user name should be displayed.
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4.3 Product Search

- The system should allow users to search products using keywords.
 - Search results should display matching products.
 - The system should display appropriate message if no products are found.
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4.4 Product Details Page

- The system should display product name, price, and description.
 - The user should be able to view product details.
 - The user should be able to add the product to wishlist or cart.
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4.5 Wishlist Management

- The user should be able to add products to wishlist.
 - The user should be able to view wishlist items.
 - The user should be able to remove products from wishlist.
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4.6 Address Management

- The user should be able to add a new delivery address.
- The user should be able to edit an existing address.
- The user should be able to delete an address.
- Mandatory fields should be validated.

4.7 Profile Management

- The user should be able to view profile details.
 - The user should be able to update profile information.
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4.8 Change Password

- The user should be able to change password with valid old password.
 - The system should display error for incorrect old password.
 - The user should be able to login with new password after change.
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4.9 Product Review Submission

- The user should be able to submit a product review.
 - Mandatory fields should be validated.
 - The system should display confirmation after review submission.
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[5. Non-Functional Requirements \(High-Level\)](#)

- The application should be user-friendly.
 - The application should respond within acceptable time.
 - The UI should be consistent across pages.
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[6. In-Scope Requirements](#)

- Functional validation of identified modules
 - UI validation of pages
 - Automation of critical workflows
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[7. Out-of-Scope Requirements](#)

- Payment gateway validation
 - Performance testing
 - Security testing
 - OTP/CAPTCHA validation
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8. Assumptions

- User is already registered.
 - Test environment is stable.
 - Test data is available.
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9. Risks & Mitigation

Risk	Mitigation
Dynamic elements	Use explicit waits
UI changes	Update locators
Test data issues	Use utility classes

10. Conclusion

This requirement analysis helped in identifying core functionalities of the ShopperStack application and provided a clear base for creating test scenarios, test cases, and automation scripts.
