Business Requirements

Functional Requirements:

Product Information:

The system should integrate with reliable and up-to-date product databases to ensure accurate information.

Provide detailed product descriptions, including specifications, prices, availability, and customer reviews.

Enable users to view real-time stock status and delivery estimates.

Flexibility:

The system should support a variety of products, categories, and user preferences.

Implement flexible search and filtering options to cater to diverse user needs.

Allow users to customize their profiles, preferences, and wish lists.

Compliance:

Ensure the project adheres to relevant laws and regulations in areas such as data protection, e-commerce, and user privacy.

Implement secure payment processes to comply with financial transaction regulations.

User-Friendly Interface:

Design an intuitive and visually appealing user interface.

Include prominent and easy-to-use features for placing orders and managing wish lists.

Provide clear and concise navigation paths for a seamless user experience.

Ordering Functionality:

Allow users to easily add items to their shopping carts.

Implement a secure and straightforward checkout process, supporting multiple payment options.

Provide order confirmation and tracking features.

Wish List Management:

Enable users to create, edit, and delete wish lists.

Allow users to share their wish lists with others.

Implement notifications for users when items in their wish lists are on sale or restocked.

Non-Functional Requirements:

Performance:

Ensure quick and responsive page load times for a positive user experience.

Support concurrent users and handle peak traffic efficiently, especially during promotions or sales events.

Scalability:

Design the system to handle a growing number of products, users, and transactions.

Implement load balancing and caching mechanisms to ensure scalability.

Security:

Implement robust security measures to protect user data, including personal information and payment details.

Use secure communication protocols (HTTPS) to safeguard sensitive information.

Reliability:

Ensure high system availability and minimize downtime.

Implement regular backups to prevent data loss and facilitate recovery in case of system failures.

Accessibility:

Design the system to be accessible to users with disabilities, complying with accessibility standards.

Support multiple languages and ensure content is easily translatable.

Usability:

Conduct usability testing to refine the user interface and enhance overall user satisfaction.

Provide helpful tooltips, clear error messages, and assistance features to guide users effectively.

Regulatory Compliance:

Regularly update the system to comply with evolving laws and regulations in the e-commerce industry.