**Business Requirement: Accurate and Up-to-Date Information about Products**

**Objective:**

The project aims to provide users with the most recent and reliable information about products, ensuring accuracy and relevance to meet end-user needs, preferences, and wishlists.

**Key Features and Functionalities:**

1. Real-Time Data Integration:

* The system should integrate with data sources to retrieve real-time information about products.
* Ensure the accuracy and freshness of product details, including prices, availability, and specifications.

1. User Personalization:

* Implement personalized features based on end user interests and wishlists.
* Utilize data analytics to understand user behavior and preferences, enhancing the relevance of product recommendations.

1. Data Validation and Quality Assurance:

* Establish a robust mechanism for data validation to eliminate inaccuracies.
* Implement quality assurance processes to ensure that only reliable and up-to-date information is presented to users.

1. Notification System:

* Implement a notification system to alert users about changes in product information relevant to their interests.
* Enable users to subscribe to updates for specific products or categories.

1. Search and Filtering Enhancements:

* Improve search algorithms to deliver accurate and relevant results.
* Enhance filtering options to allow users to refine product searches based on various criteria.

**Performance Metrics:**

1. Data Accuracy Rate:

* Measure the percentage of accurate and up-to-date product information delivered to users.

1. User Engagement Metrics:

* Monitor user engagement with personalized features, such as wishlist updates and targeted recommendations.

1. System Uptime:

* Ensure high system availability to provide real-time product information without interruptions.

**Compliance and Security Considerations:**

1. Data Privacy:

* Comply with data privacy regulations to protect user information.
* Implement secure data transmission and storage practices.

1. Regulatory Compliance:

* Ensure adherence to relevant regulations governing e-commerce platforms and product information.

**Stakeholders:**

* End Users
* Product Managers
* Data Analysts
* Quality Assurance Team
* System Administrators

**Dependencies:**

* Integration with external data sources.
* Collaboration with data analytics team for user behavior analysis.
* Ongoing collaboration with product management for feature enhancements based on user feedback.