Non-Functional Requirements

Performance :

- **Response time :** We used the latest technologies available to provide fast performance with reduced response time which makes users enjoy the best performance experience. (e.g., loading the homepage, searching for a product) .

- **Scalability :** Of course, a big idea needs scalability to include a larger number of users and we provide this in our application by scalability database .

- **Peak Traffic:** The platform should be able to handle increased traffic during peak times, such as holidays or sales events.

Security :

- **Data protection :** we used mechanisms like (e.g., using multi-factor authentication , Using secure token generation) for protecting user's and admin's sensitive data (e.g., passwords , payment information) .

- **Secure Payment Processing:** The payment gateway should comply with relevant security standards (e.g., PCI DSS).

- **Hack prevention :** validation and sanitize the inputs before process to make sure that it's not cyberattacks like SQL injection or XSS .

Accessibility:

- **Compliance with Standards:** Adhere to accessibility guidelines (e.g., WCAG) to ensure the platform can be used by people with disabilities.

- **Alternative Text for Images:** Provide descriptive text for images to assist visually impaired users.

Availability :

- **Uptime :** Our system is designed to be 99.99% ready to use at all times , allowing for the convenience of use at any time .

- **Recovery plans :** There is feedback can the users use to report if there is any problem and there are plans to follow to guarantee their rights .

Usability :

- **User interface :** Designed to be smooth and easy to use and surely, Make users understand how to use and reach to what they want by best ways .

- **Responsive Design:** The website will adapt to different screen sizes (desktop, tablet, mobile) for optimal user experience.

- **User-Friendly Checkout:** The checkout process should be straightforward and secure.

Reliability :

- **Stability :** Our system is stable to provide to users deal with it safely .

- **Data accuracy :** Surely, it's important to care about the quantity of products that will be shown to users to know if it's available or not .

- **Data Backup:** Regularly back up critical data to ensure recoverability in case of data loss.

Integration:

- **Third-Party Integrations:** Integrate with relevant third-party services (e.g., payment gateways, shipping providers, marketing tools).

- **RESTful APIs:** Provide well-documented RESTful APIs for developers to interact with the platform's functionality.

- **API Security:** Implement robust security measures (e.g., OAuth, API keys) to protect sensitive data.

- **API Documentation:** Provide clear and comprehensive API documentation to guide developers in using the platform's APIs.

Maintainability :

- **Code Quality:** Ensure clean, well-structured code for easier maintenance and updates.

- **Ease of modification :** merchants can modify anything about their products easily and quickly and admins can do this but have more accessibility .

- **<u>Documentation :</u>** Complete documentation of all processes , system components and what it does to assist with future development and troubleshooting.

- **Modularity:** Design the platform with modular components for easier updates and scalability.