* **Functional Requirements**
* **Inventory Tracking: -** Real-time tracking of inventory levels must be performed with inventory management system. Tracking incoming and exiting inventory as well as the present stock levels for each product is part of this. This is crucial to guarantee that the company has the inventory required to satisfy client demand.
* **User management: -** In order to control access to various features and functions based on user permissions and roles, the system should include user management features. For the protection of data security and preservation of system integrity, this is crucial.
* **Integration: -** To simplify procedures and improve productivity, the inventory management system should be able to interact with other systems, such as delivery management and transaction management systems.
* **Analytics and Reporting: -** Reports and analytics on inventory levels, order history, and other important parameters must be produced by the system. As a result, the company will be able to spot trends and decide on inventory management with knowledge.
* **Non-Functional Requirements**
* **Real time Performance: -** To be able to handle the amount of data it should process. an inventory management system needs to operate at an excellent level. This means that it must be able to process data in real-time, respond to requests from administrators and personnel without latency, and support multiple concurrent users without experiencing any lag.
* **Accuracy: -** an inventory management system must be able to function without errors or system breakdowns in order to be considered dependable. This can be accomplished by placing in place backup and recovery procedures in the case of a failure, as well as rigorous testing and quality assurance processes.
* **Accessibility: -** Even for non-technical users, an IMS must be simple to use. To enable users to efficiently utilize the system, it is essential to have a simple and intuitive user interface, clear documentation, and adequate training materials.
* **Access control:**  **-** an inventory management system stores important business data, such as financial records, supplier information, and customer information. In order to protect against data breaches and unauthorized access, the system needs to have strong security features. Firewalls, encryption, access controls.
* **Technical Requirements**
* **Barcode reader: -** A system for managing inventories must include this function. To manage stock movements and ensure accurate inventory counts, the system requires to include barcode scanning. Furthermore, barcode scanning can aid to expedite picking, lower error rates, and boost production.
* **Bill Counter: -** the usage bill counter is an essential feature in an inventory management system that helps businesses to manage their inventory levels effectively and efficiently.