# ABC’s Inventory Management System

## Non-Functional Requirements Checklist

**Performance**

The system must have a reasonable response time. Lagging of the program should be avoided. Processing time must be less than 3 seconds. During high traffic, the processing time should be 5 seconds at most. Queries should be processed in a reasonable time too.

**Security**

The system must have login requirements for the users. Safe password must be automatically generated by the system. However, users must have ability to change passwords. The system should only accept new passwords that are at least 8 characters in length and that have digits or special characters in them. Similarly, the store staff must not have admin functions (high level functionalities like adding new user, delete stock, add stock and so on). The warehouse staff should have more functionalities like adding new user, adding new stock, update stock and so on. The system should logout automatically after 5 minutes of inactivity.

**Availability**

The system should be available 24/7. Since store and warehouse staffs might need to use the system to check stock level, stock availability and status at any time, the system should be always available to deliver. If maintenance needs to be made, a notice must be given to all staff and should be done outside business hours so that the business is not highly affected during system maintenance.

**Reliability**

The system can have at most 100 hours of downtime per year. For normal breakdowns, the system must be able to conduct normal functions after restart.

**Usability**

The system should have a very basic and consistent UI. The system must have a white or gray background while buttons and links should have black font color so that these elements are very clear. The system must be available in English. The system must be displayed full screen when launching the application. However, the system should allow users to change the size.

**Capacity**

The system must be able to handle 1000s of requests per hour. The business still being of small scale, the system will not be swamped with requests from different stores. However, in case of a business growth in the next 3 years, the system should be able to handle at least 1000 requests per hour. Similarly, the system should be able to store data and information of all products, stores and the warehouse.