**CHAPTER 2**

SYSTEM AND SOFTWARE REQUIREMENTS AND SPECIFICATIONS

The program works on Desktop PC and is executed using a Django Rest Frameworks interface which interacts with a PostgreSQL database running on localhost.

# FUNCTIONAL REQUIREMENTS

A description of the facility or feature required. Functional requirements deal with what the system should do or provide for users. They include description of the required functions, outlines of associated reports or online queries, and details of data to be held in the system.

# Interface Requirements:

* + - * The system shall provide an option to add/delete products to their cart.
      * The system should give option for login.
      * The system shall provide option to add/delete suppliers.
      * The system shall provide option Search a product.
      * The system shall provide option to sell a product.

# NON-FUNCTIONAL REQUIREMENTS:

Non-functional requirements define the overall qualities or attributes of the resulting system.

# Usability

Usability is the ease with which a user can learn to operate the Online Shopping Website system and get results.

# Security

Security requirements are included in a system to ensure:

* + - * All inventory and supplier information are well secured
      * SQL injection is prevented

Online Shopping Website

# Reliability

Reliability is the ability of a system to perform its required functions under stated conditions for a specific period of time. Constraints on the run-time behavior of the system can be considered under two separate headings:

* + - * Availability: is the system available for service when requested by end-users.
      * Failure rate: how often does the system fail to deliver the service as expected by end- users.

# 2.2.4*.* Efficiency

The comparison of what is actually produced or performed with what can be achieved with the same consumption of Clouds (money, time, labor, etc.). It is an important Factor in Determination of Productivity.

# SOFTWARE REQUIREMENTS

Programming language : Python

Operating system : ANY OS (Recommended**:** Windows8,

Windows Vista, Windows XP) Application required : Web Application

Coding language : Core Python OOPS

# HARDWARE REQUIREMENTS

CPU : Pentium IV 2.4 GHz or above Memory (Primary) : 512 MB, 1 GB or above

Hard Disk : 40 GB, 80GB, 160GB or above

Monitor : 15 VGA color