**CHAPTER 4**

**SOFTWARE REQUIREMENTS AND SPECIFICATION**

**4.1 Overall description**

Software requirements are documentation that completely describes the behavior that is required for the software, before the software is designed, built and tested.SRS's are typically developed during the first stages of "requirements Development", which is the initial product development phase in which information is gathered about what requirements are needed. This information-gathering stage can include onsite visits, questionnaires, surveys, interviews and perhaps a return-on-investment (ROI) analysis or needs analysis.

**4.2 Product perspective**

This software can be used to carry out Stock and bill automation of the medicine data. The main objective of this software is to automate an application. The invoice and stock is hidden under a security medium under the user id and password. The application is also protected with a password security to provide another layer of security.

**4.3 Assumptions and dependencies:**

Most problem statements are ambiguous, incomplete or even inconsistent. Some requirements are just plain wrong. Some requirements, although precisely stated, have unpleasant consequences on the system behavior or impose unreasonable implementation costs. The analyst must work with the requestor to refine the requirements so they represent the requestor's true intent. This involves challenging the requirements and probing for missing information.

**4.4 Security Requirements**

Some of the factors that are identified to protect the software from accidental or malicious access, use, modification, destruction, or disclosure are described below. Keep specific log or history data sets

* Assign certain functions to different modules.
* Restrict communications between some areas of the program.
* Check data integrity for critical variables
* Later version of the software will incorporate encryption techniques in the user/license authentication process.

**4.5 Software Quality Attributes**

The Quality of the System is maintained in such a way so that it can be very use friendly to all the users.

The software quality attributes are assumed as under

* Accurate and hence reliable.
* Secured. Fast speed.
* Compatibility.

**4.6 Hardware Specification**

* Processor: Intel Core Duo 2.0 GHz or higher.
* RAM: Minimum 512MB or Greater.
* Hard disk: 20 GB (Free Space).
* Monitor: Plug and play monitor.
* Mouse: Microsoft PS/2 mouse.
* Keyboard: Standard 101/102 key.

**4.7 Software Specification**

* Software: XAMPP.
* Operation System: Windows 7 or higher, MAC, UNIX.
* Browser: PHP (5.5)
* Back End: MYSQL
* Server: APACHE