**CHAPTER 2**

**System specifications**

**2.1 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.

**2.1.1 Interface Requirements**

* The system shall provide an option for admin to login and view.
* The system shall provide an option for admin to modify records.
* The system shall provide an option for the users to view and search books.

**2.2 Non-Functional Requirements**

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

**2.2.1 Usability**

Usability is the ease with which a user can learn to operate and get instant information about donors, hospitals and nearby blood banks.

**2.2.2 Security**

Security requirements are included in a system to ensure:

* Enquiries from the end users as well as from any organization are highly secured.

**2.2.3 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.

**2.2.4Efficiency**

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.

**2.3 Software Requirements**

Programming language : C++

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

Windows Vista, Windows XP)

Application required : Turbo C++

**2.4 Hardware Requirements**

C.P.U : 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