**CHAPTER 2**

**System and software requirements and 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 new student and employee Registration.

The system should give option for admin login.

The system shall provide facility to calculate fees and balance.

The system shall provide an interface to track salaries

**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 register students/employees, get instant info about a particular student/employee or room.

**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 fewer than 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.

**2.3 Software Requirements**

Programming language : Java.

Operating system : ANY OS (Recommended: Windows8, Windows Vista, Windows XP)

Application required : Any IDE, Xampp

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