## 3.4 Logical Database Requirements

This should specify the logical requirements for any information that is to be placed into a database (You can use ER diagram).

## 3.5 Design Constraints

This should specify design constraints that can be imposed by other standards, hardware limitations, etc.

### 3.5.1Standards Compliance

This subsection should specify the requirements derived from existing standards or regulations. They may include the following:

* Report format
* Data naming
* Accounting procedures
* Audit tracing

## Software System Attributes

### Reliability

This should specify the factors required to establish the required reliability of the software system at time of delivery.

### Availability

This should specify the factors required to guarantee a defined availability level for the entire system.

### Security

This should specify the factors that protect the software from accidental or malicious access, use, modification, destruction, or disclosure.

### Maintainability

This should specify attributes of software that relate to the ease of maintenance of the software itself.

### Portability

This should specify attributes of software that relate to the ease of porting the software to other host machines and/or operating systems.

**3.4 Design Constraints**

**3.4.1** Standards Compliance The COMPANY MANAGEMENT SYSTEM standard compliance requirements are as follows:

1. Any kind of documentation prepared for COMPANY MANAGEMENT SYSTEM shall be in content compliance with IEEE standards [7, 8, 9, 10].

**3.5** Software System Attributes

**3.5.1 Reliability**:

1. The COMPANY MANAGEMENT SYSTEM shall be 100% operational for 90% of the calendar time during its first year of operation

**3.5.2 Security:**

1. In order to protect itself from accidental or malicious access, use or modification, the COMPANY MANAGEMENT SYSTEM shall enforce supply of a valid username and password pair, when any user attempts to login to the system.

**2**. The issues concerning the security of the operating system at the server site, which may lead security problems for the COMPANY MANAGEMENT SYSTEM, shall not be the responsibility of the DeepBlue.

**3.5.3 Portability:**

**1**. The COMPANY MANAGEMENT SYSTEM shall be a platform independent system, provided that, all of the software interfaces specified in subsection

**2.1.4** are provided for both the server site and the client site. 2. In order to establish the platform independence, Java2 Standard Edition version 1.3.1 of Sun Microsystems shall be used for coding both the server software and the client software. 3.6 Other Requirements Although, the COMPANY MANAGEMENT SYSTEM shall not use any logical database, it shall use two different files which are “User Information File” and “Room Information File”. The requirements for these files are:

**1**. The User Information File shall be used in User Authentication Function, User Addition Function, User Deletion Function, User Update Function, Chat Group Addition Function, Chat Group Deletion Function and Chat Group Update Function.

**2.** The Room Information File shall be used in Room Addition Function, Room Deletion Function and Room Update Function.