**3.2 Non-Functional Requirements**

3.2.1 User Interface Requirements

The frontend of the entire software will be built upon the Bootstrap framework. The logging in and registering webpages will consist of comprehensive and easy-to-fill out online forms. The administrative sites of the head nurse will have a visually simple layout that will not overwhelm the user. The patient websites will display their relevant medical data with detailed records of their visits and simple account of their diagnoses.

3.2.2 Usability

The system will be easy to learn and easy to use in a short span of time.

The major features and functions will be well documented and described in a simple manner via a help section.

3.2.3 Performance

3.2.3.1 Capacity

The managing module of the system will support up to 50 simultaneous users, whilst the patient information will be able to support up to 200 concurrent users. The system will require a minimum of 512 MB of RAM for each user (or higher, depending on the Internet Browser) to not cause delay in the page loading times.

3.2.3.2 Availability

The system will available 90% of the time. The downtime interval for the managing side is expected to be at most 5 minutes during emergencies only.

3.2.4 Maintainability

An administrator will be able to fix minor defects in the system in less than 2 hours.

Backup of patient data is to be conducted every week.

3.2.5 System Integration

A web server will be needed, which will also serve as a data server to hold all patient data. Apache 2.4 will be used as the web server software that will connect to the MySQL 5.5 database. PHP 5 will be used as the server script.

3.2.6 Security

All password data, immediately after registering will be encrypted using SHA1 encryption. Every activity of each user will be logged and stored in the database.

3.2.7 Data Management

The following data will be stored in the database:

1. Patient information
2. Doctor information
3. Nurse information
4. Room information
5. Checkup admission data
6. Inventory information
7. Common Diseases (for the symptom tester function)

3.2.8 Standards Compliance

The system must log and record every activity performed by staff members in accordance with QSUT hospital policies.

All patient information is private and is protected under the Patient Private Information Protection Act of QSUT.

All patient information must be disclosed to the user as per the Privilege to Information Law no.119, Constitution of Albania.