**Functional Requirements**

1. The site has four different types of users: Visitors, Doctors, Patients and Administrators. Each user type has its own functions.
2. Visitors can read the news and frequently asked questions on the home page.
3. Visitors cannot login before registering. Therefore, visitors cannot access the functions used by patients or doctors.
4. Visitors can register with their ID number, password, name, age, gender, address, email and telephone information.
5. Doctors, Patients and Administrators have access to the homepage that visitors can access. Since all three classes are registered, they cannot be re-registered.
6. Doctors, Patients and Administrators must login to use their own functions. In order to login, they have to enter their identification number and password.
7. Patients can make an appointment by selecting the date, time, hospital and doctor.
8. Patients can see their appointment history. They can sort and filter the appointment history by date, hospital, department or doctor.
9. Patients can see open appointment slots within the next three months. They can sort and filter the future appointments by date, hospital, department or doctor.
10. Patients and doctors can see their personal information. They can be update their passwords, addresses, emails and telephone information.
11. Doctors, Patients and Administrators can safely logout the system. The next time they log in, they have to type their ID numbers and passwords again.
12. Patients and doctors must be able to change password if s/he forgot the password. In order to do this, they must first enter the email address in which they are registered. After that, users receive their new password by email.
13. Patients can cancel appointments and change their time and date.
14. Doctors can see patients who have an appointment with them. They can sort and filter appointment list by date and diagnosis.
15. Doctors can notify patients who have not come to the appointment.
16. Doctors can check the appointment history of specific patients.
17. Administrators can forward appointments that have been modified by patients to doctors. Doctors receive this notification via email.
18. Administrators can forward appointments that have been modified by doctors to patients. Patients receive this notification via email.
19. Administrators can ban patients who do not attend their appointments often.
20. Administrators can view the information of each type of registered user and change each registered information.
21. Administrators can close specific appointment slots depending on the requests of doctors.
22. Administrators can create extra appointment slots for patients.

**Non-Functional Requirements**

1. Login process should be completed in maximum 5 seconds.
2. Multiple appointments cannot be made on the same day and time by User.
3. User cannot make any appointments at the times which are the doctor is not available.
4. The system will give a feedback message when the user successfully makes an appointment.
5. The system show a loading spinner during database processes.