Goal of creating this system:

"Our goal is to facilitate system the patients as much as possible"

Advantages and Impacts

1. Patients won't have to come hospital every time they want to discuss something with their doctor
2. Online medicine prescription will aid the patients a lot.
3. Patients can pay for the medicine online.
4. Online appointment system will ensure availability of system
5. Patient can call for ambulance online
6. Patients who live in other cities will be linked to their nearest doctors.
7. Online medicine inventory for each patient will be kept when the medicine runs out, patient will be notified and will be asked if he wants medication delivered to his home.

This project will have a positive impact on society. It will improve transparency in medical system and will prove helpful in eradicating corruption in the medical sector.

Functional Scheme

**Patient End functionality**

* Patients won't be able to visit the home page unless they signup.
* First time signup will be done by the hospital staff.
* At the time of signup patient will be asked to provide the following information

1. First name & last name
2. CNIC
3. Credit card information (for billing system)
4. E-mail
5. Mobile phone number
6. Forgot password protocol questions

* At the time of signup it will be checked whether the given information is valid or not by using email verification, mobile verification and credit card verification.
* Profile picture will be taken by the hospital staff and patient won't be able to change it himself.
* Patients can change their profile information later (but not the profile picture and credit card information) – Zeeshan
* Patient's account will be encrypted after he/she is completely cured. Patient will have to visit the hospital again if he/she wants to reactivate his/her account.

Processes which will initiate after Signup

After a patient's profile is created following processes will initiate instantly

1. His/her medical history will be recorded -> Mubeen
2. Medicine prescription record will be kept -> Mail
3. His medicine inventory will be created (in order to keep record of medicine's quantity)
4. Patient will be assigned a doctor which will treat his/her disease. (doctor will be assigned according to the gender)
5. Doctor defined appointment system -> tayyab

Medicine inventory system

Online inventory system helps the hospital keep record of the medicine stock of a patient. Following functionalities will be kept in mind will designing it.

1. Patient will be notified via message and email when his medicine stock is about to end.
2. Patient will be given option to either get the medicine delivered from the hospital itself or to get a prescription chit from the hospital so that patient can buy that medicine from somewhere else.
3. Medicine charges will be linked to the billing system of the patient. -> kashif

Billing system

Billing system is the system which tells the patient about his medical expenses. Here is the basic functionality scheme of the billing system.

1. Medical expenses section will be shown on the account page of the patient. -> inam
2. User will be allowed to pay through multiple sources like PayPal, jazz cash, easy paisa etc.
3. Patients with low income will be provided concession
4. If the medical expenses are not paid within the due date patient will be notified via message and email to clear his dues as soon as possible. -> tajamal
5. If the patient is found capable of paying money and he still doesn't clear his dues then his account will be suspended and will only be reactivated if he clears his dues.
6. Account can only be reactivated by the hospital staff. Haseeb

Online platform and health blog

Online platform & health blog idea is to provide patients and doctors a platform where they can discuss about the symptoms of diseases. Health blog will provide natural solutions to common diseases like viral flu etc. online platform will have 2 sections. Section one will be where doctors will have their profile and patients will visit them and give them reviews and ratings according to their treatment method and effectiveness of their treatment. Second section will focus on discussions about possible symptoms and remedies for diseases. following functionality will have to be achieved for this section.

1. For section one we will link doctor's profile to the online platform page and we will allow patients to visit the profile of doctor.
2. If the patient likes the profile of a doctor and wants to discuss his/her disease with that doctor he/she will send an appointment request to that doctor. By doing that patient's medical history, medicine prescription history, personal details (like age, weight etc.) and current doctor's profile will be sent to the doctor. If the doctor finds the patient's case related to his experience then he can accept the request and can give an appointment to the patient in order to discuss about the disease.
3. Health blog will be managed by the hospital staff.
4. Section 2 of online platform will be designed like a social media page so that patients feel comfortable will discussing their diseases.

Doctor End functionality

Doctor end functionality ensures doctor's availability and his experience in curing diseases. Following functions will be performed on doctor end

1. Doctors who are on-duty will be required to keep their profile log in so that patients can see whether the doctor is available or not
2. After every 6 months every doctor's rating and reviews will be checked. If the reviews are good then the doctor will be given a bonus.
3. If a doctor leaves the hospital then his profile will be suspended and his cases will be shifted to some other doctor.

**Other functionalities:**

- Theme Color Change

**Signup Details:**

Doctor Signup:

1 -> Name

2 -> Email

3 -> Password(Save encrypted)->Show password

4 -> Gender

5 -> Dgree

6 -> Speciality

7 -> Address

8 -> Phone Number

9 -> Profile Image

Patient Signup:

1 -> Name

2 -> Email (Registraion #)

3 -> Password(Save encrypted)->Show password

4 -> Gender

5 -> Class

6 -> Address

7 -> Phone Number

8 -> Profile Image

9 -> Teacher(incharge)

10 -> Section

11 -> Parent

12 -> Unique pincode

- Forgot password:

- send code by email

- send code on phone no

- send code by admin email (Registration #)

OR

- specific user pincode