**Project Name: Remedy**

**Introduction**:

The COVID times have shown us how necessary doctors and medicines are to us. People were craving medicines and doctors yet they could not find proper medicines and doctors in the time of emergency. Many people had to die because of a lack of oxygen and proper medication. We do not predict or know when and how things like COVID may resurface again. For that we need to be ready to overcome that else the situation will be like the COVID times again.

Even without the COVID times people often find it hard to appoint doctors in our country because of the hard and tight schedule doctors have and often patients need to spend hours, and even days to get an appointment with a doctor. The scenario in the medical sector is not good either. People cannot buy their necessary medicines in times of emergencies because of the shortage of proper pharmacies in their neighborhood.

There are a lot of apps and websites that seem to solve this problem but often they cannot deliver the medicines quickly, and most of the doctor appointment apps or websites deal with online appointments. Online appointments can solve the issues to a certain extent but most of the times patients and doctors need to sit face-face to give and receive proper treatment.

The project aims to address these issues and solve them. It is important that every person in this country needs to get proper medication and treatment in times of emergency. Therefore, our project will aim to introduce an online medicine shop along with offline and online doctor appointments.

**Scope**:

The scope of this project is the people who are willing to buy online medicines and know how much time they can save for themselves by booking doctors through the website. Registered normal users can watch medicines, buy medicines, watch doctors, and book them.

**Users and their roles**:

Anonymous users:  
1. Anonymous users can look at the list of medicines and doctors registered on our website.

Registered normal users:  
1. Registered users will be able to buy medicines.

2. They will be able to comment and give their feedback on the service.

3. They will be able to book online and offline doctor's appointment.

4. They will be able to upload the prescription the doctor has assigned them through the website.

5. They will be able to rate and give their feedback on the doctors

6. They will be able to watch their next upcoming appointments.

7. They will be able to directly share their prescriptions through the website and the medicines will be delivered to them,

8. Users will be able to add medicine to their favorite and watch later list.

9. Users can watch their order list, cancel order list and upcoming appointments.

**Doctors**:

* Doctors will be able to register them as professional doctors by uploading their doctorate certificates.
* Once verified they will be able to register themselves as the specialist and can decide if they want to treat patients offline, online, or both.
* Doctors will be able to manage their activities through the website.
* They can manage how many patients they will see in a day?
* They will be able to upload the prescriptions they have provided to the patients through the website.
* They will be able to manage their timetable through the website.

**Admin users**:

* Admin users will be responsible for overseeing everything.
* They will be responsible for verifying the doctors.
* They will add, delete, manage and handle the stock of the medicines
* They will be responsible to handle any kind of issues or problems that will get created in the website.

**Use case**:

**Registration**: System, admin and anonymous users are the actors of the use case. Users can choose if they want to register as a normal user or as a doctor. If they choose a doctor, they will need to go through the doctor verification process and the admins will do that. If they choose normal users, they will need to give some basic information to register them as users.

**Buying medicines**: System and a registered user are the actors of the use case. The users can choose a medicine from a list of medicine and add it to the cart. After that the users can check out the medicines they have listed. Or the users can directly upload their prescription and book the medicines and the medicines will be delivered to their registered address.

**Add to Favorites**: System and users are the actors of this use case. Users can add medicine to their favorite list.

**Add to watch later**: System and users are the actors of this use case. Users can add medicine to their watch-later list.

**Payment system**: System, third party integration and users are the actors of the use case. After selecting the medicines, the users can select whether they want to pay online or offline. If they choose online, they can pay with bkash, nagad, credit cards or any other online payment system in available Bangladesh.

**Adding and managing medicines**: System and admins are the actors of the use case. Admins can add, delete, manage and handle the medicines.

**Appointment of a doctor**: System, doctor, and users are the actors of this use case. The users can choose a doctor from a list of doctors. If the doctor’s current, day patient list is not filled, the user can appoint the doctor. If they appoint a doctor online, the appointment will be done through the ZOOM and if they appoint offline, a unique ticket will be generated with time and place that they need to bring with them when they go to see the doctor.

**Uploading prescription**: System, doctors, and users are the actors of this use case. The users and doctors can upload the prescription into their accounts for the betterment of the next appointment.

**Next appointment**: System, users, and doctors are the actors of the use case. The doctors can decide if the patient needs another appointment and if needed, he or she can save it to the system and the users will be able to decide when to book the next appointment.

**Appointment management**: System and doctors are the actors of this use case. The doctors can list how many patients they want to see in each day and they can change it any time. When the booking is completed, the doctor will be automatically assigned to be not available in the system.

**Technologies**:

React

Spring boot

My SQL /SQL server

GIT and Github