

# **Theory Assignment Report**

Only for course Teacher						
		Needs Improvement	Developing	Sufficient	Above Average	Total Mark
Allocate mark & Perce	ntage	25%	50%	75%	100%	5
Clarity	1					
<b>Content Quality</b>	2					
Spelling & Grammar	1					
Organization and Formatting	1					
	<u> </u>		I.	Total ob	tained mark	
Comments						

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### Project Name: 24/7 Emergency MediShop

#### Introduction

Access to medical emergency services is limited, particularly at night when all pharmacies are closed. This can result in critical medical conditions going untreated, putting people's health and lives at risk. The lack of access to medicine during late hours, especially in case of medical emergencies, is a major concern. This can lead to serious health problems and even death in severe cases. People often struggle to find open pharmacies during late hours and hence the need for a system that provides 24/7 access to medicine.

### **Background Study**

Due to the pandemic, the demand for online medicine delivery services has increased significantly. The current online medicine delivery services have limited hours of operation and do not cater to emergency situations. This has led to a need for a round-the-clock medical emergency delivery system. In recent years, there hasbeen a significant increase in the demand for online medicine delivery services. This is due to the growing need for convenience and accessibility, especially in the case of medical emergencies. This project aims to fill the gap in the market by providing a reliable and efficient online medicine delivery system that operates 24/7.

### **Objectives**

The main objective of the project is to provide a platform for the people to order medicine anytime and anywhere. The platform should be user-friendly, easy to use and accessible 24/7. It should also provide users with suggestions for medicine based on their symptoms, ensuring that they receive the right medication for their needs.

- To provide 24/7 access to medical emergency services to people in need.
- To ensure that people have access to the medicine they require in an emergency situation.
- To provide a convenient and efficient service that saves time and reduces stress.
- To suggest medicine based on the problem described by the user.

#### **Motivation**

The aim of this project is to make medical emergency services accessible and affordable to everyone, regardless of the time of day or night. It is motivated by the belief that every person deserves access to medical care when they need it the most. The idea behind this project is to provide a solution to the problem of access to medicine during late hours. The aim is to improve the health and well-being of the people by providing a convenient and accessible solution. The project is motivated by the desire to save lives and improve the quality of life for people in need.

#### **Outcome**

The project will provide a round-the-clock medical emergency delivery service, ensuring that people in need of critical medical care are able to access it at any time. This will help to reduce the number of untreated medical conditions and save lives. The outcome of this project is a fully functional online medicine delivery system that operates 24/7. The system will provide users with the convenience and accessibility they need to receive the right medicine in case of medical emergencies. It will also provide a platform for users to receive suggestions for medicine based on their symptoms.

### **Requirement Specifications**

For our system there are three types of Stakeholders Admin, Doctor & User.

#### Admin

- Can view the list of registered doctors.
- Can approve or reject doctor registration requests.
- Can add, edit, or delete the list of medicines.
- Can add, edit, or delete the list of medical equipment.
- Can view the list of patients.
- Can view the patient's appointment history.
- Can delete or cancel an appointment.
- Can view the list of doctor's prescriptions.
- Can view the list of patient's prescriptions.
- Can view the patient's feedback on a doctor's service.

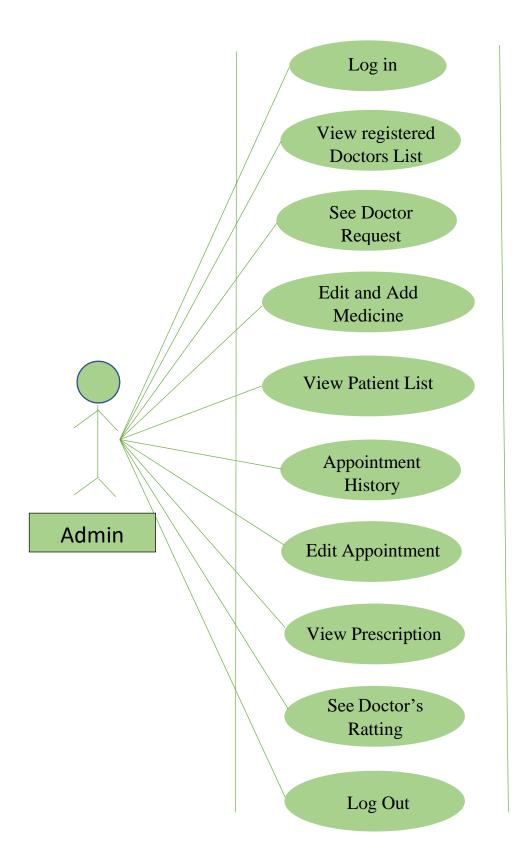
#### **Doctor**

- Can view the list of patients.
- Can view the patient's bio data.
- Can select their availability to accept patient appointments.
- Can view the patient's appointment history.
- Can create, read, and edit prescriptions.
- Can view the list of available medicines.
- Can search for a particular medicine.
- Can add medicine to the patient's prescription.
- Can view the list of medical equipment.
- Can add medical equipment to the patient's prescription.

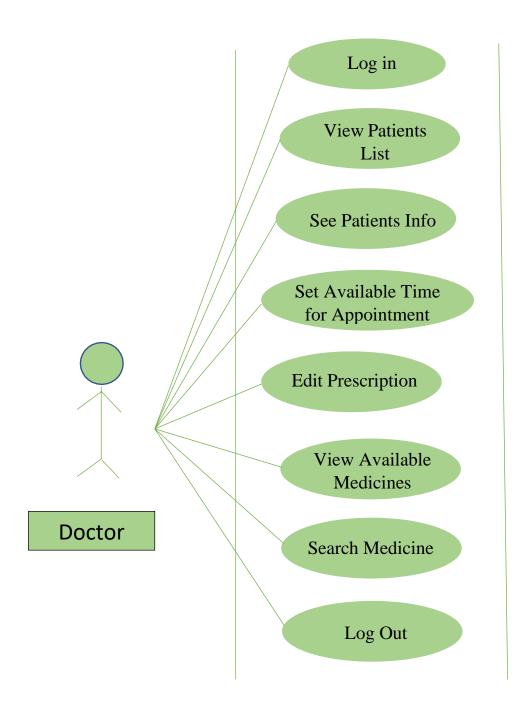
#### User

- Can view the list of available medicines.
- Can search for a particular medicine.
- Can select and add the medicine to the cart.
- Can view the cart and proceed to checkout.
- Can see a list of available doctors.
- Can request to schedule an appointment with a doctor.
- Can view their appointment history.
- Can provide feedback on a doctor's service.
- Can view their prescription history.

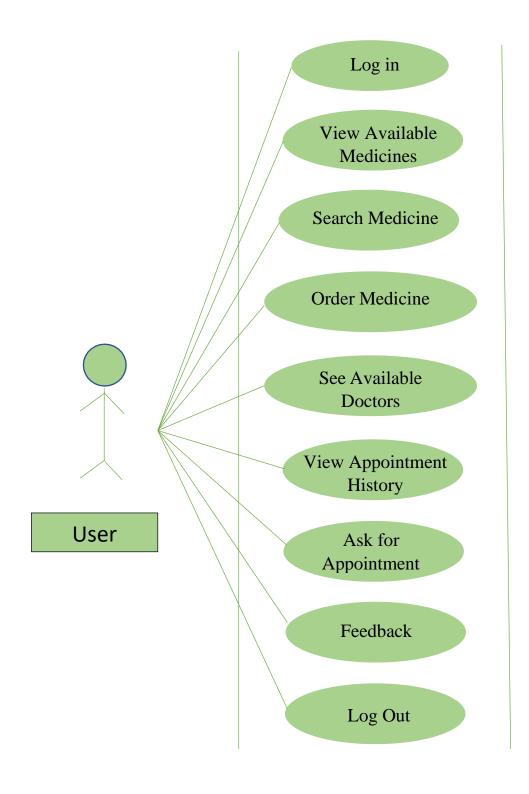
### **Use Case Diagram for Admin**



### **Use Case Diagram for Doctor**



### **Use Case Diagram for User**



## **Use case Description for Admin**

Use Case Name	Login
Actor	Admin
Pre-Condition	Sign Up
Flow of events	1. At first, enter the username and password for log in as admin to the system. 2. Then click on the "Login" button. If provided username and password get verified correctly then he/she can login to the system as admin.

Use Case Name	View Registered Doctors
	List
Actor	Admin
Pre-Condition	Log in
Flow of events	1. The admin can select the "View Doctors List" option from the dashboard.  2. Then the system will present a list of all registered doctors. The admin can filter the list based on specific criteria, such as the doctor's specialty or location.  3. Then the admin can select a doctor from the list to view their details.  4. Once the admin is done viewing the doctor's profile, they can return to the list of registered doctors or log out of the system.
Alternate Flows	If there are no registered doctors in the system, the

system displays a
message indicating that
there are no doctors to
view.
If the admin does not have
appropriate
permissions to view the
registered doctors list, the
system displays an error
message and prevents the
admin from accessing the
list.

Use Case Name	See Doctors Request
Actor	Admin
Pre-Condition	Log in
Pre-Condition Flow of events	1. The admin can select the "See Doctor Request" option from the dashboard.  2. The system presents a list of all pending doctor requests, including the doctors' basic information, such as their name, email, and contact number.  3. Then the admin can filter the list based on specific criteria, such as the doctors' specialty or location.  4. Then the admin selects a doctor from the list to view their details.  5. The system presents the doctor's profile, including their experience, qualifications, skills, and any other relevant
	information provided by

	6. The admin reviews the
	doctor's profile to
	determine if they meet
	the system's
	requirements and criteria
	for approval.
	If the admin decides to
	approve the doctor's
	request, they select the
	"Accept Request" option.
Alternate Flows	If there are no pending
	requests from doctors in
	the system, the system
	displays a message
	indicating that there areno
	requests to view.
	If the admin does not have
	appropriate
	permissions to view
	doctors' requests, the
	system displays an error
	message and prevents the
	admin from accessing the
	list.

Use Case Name	Edit Medicine & Medical Equipment
Actor	Admin
Pre-Condition	Log in
Flow of events	1. The admin can select the "Edit Medicine & Medical Equipment" option from the dashboard.  2. Then the system presents a list of all the medicines and medical equipment currently available in the system.  3. Then the admin can filter the list based on specific criteria, such as the type of medicine or

	equipment or their
	availability.
	4. To add a new medicine
	or medical equipment,
	the admin selects the
	"Add Item" option and
	enters the necessary
	details, such as the name,
	description, price, and
	quantity.
	5. To delete an existing
	medicine or medical
	equipment, the admin
	selects the item from the
	list and chooses the
	"Delete" option.
	6. The system prompts
	the admin to confirm the
	deletion, and upon
	confirmation, removes
	the item from the system.
Alternate Flows	If there is no medicine or
	medical equipment data
	in the system, the system
	displays a message
	indicating that there is no
	data to edit.
	If the admin does not have
	appropriate
	permissions to edit
	medicine and medical
	equipment data, the
	system displays an error
	message and prevents the
	admin from making
	changes.

Use Case Name	View Patient List
Actor	Admin
Pre-Condition	Log in
Flow of events	1. The admin can select the "View Patient List" option from the dashboard.

	2. Then the system
	presents a list of all
	-
	registered patients,
	including their basic
	information such as
	name, contact details, and
	patient ID.
	3. The admin can filter
	the list based on specific
	criteria, such as patient
	age, gender, or medical
	condition.
	4. The admin selects a
	patient from the list to
	view their details.
	5. The system presents
	the patient's profile,
	including their medical
	·
	medication, and any other relevant
	information provided by
A1. FI	the patient.
Alternate Flows	If there are no patients
	registered within the
	system, the system
	displays an appropriate
	message to the
	Stakeholder Admin.
	If the Stakeholder Admin
	is not authenticated or
	authorized to access the
	patient list, the system
	displays an appropriate
	error message and denies
	access to the patient list.
	miles to the patient list.

Use Case Name	Appointment History
Actor	Admin
Pre-Condition	Log in
Flow of events	1. The admin can select
	the "Appointment
	History" option from the

	dashboard.
	2. Then the system will
	present a list of all past
	appointments in the
	system, sorted by date or
	other relevant criteria.
	3. The admin can filter
	the list based on specific
	criteria, such as the
	patient's name, the
	doctor's name, or the
	appointment date.
	4. The admin selects an
	appointment from the list
	to view its details.
	5. The system presents
	the appointment details,
	including the patient's
	name, contact details, and
	medical history, as well as
	,
	specialty, and any other
A14 / E1	relevant information.
Alternate Flows	If the patient does not
	have a recorded
	appointment history
	within the system, the
	system displays an
	appropriate message tothe
	Stakeholder Admin.
	If the Stakeholder Admin
	is not authenticated or
	authorized to access the
	appointment history, the
	system displays an
	appropriate error
	message and denies
	access to the appointment
	history

Use Case Name	Edit Appointment
Actor	Admin
Pre-Condition	Log in

Flow of events	1 The the system
Flow of events	1. The the system presents a list of all appointments in the system, sorted by date or other relevant criteria.  2. The admin can filter the list based on specific criteria, such as the patient's name, the doctor's name, or the appointment date.  3. The admin selects an appointment from the list to edit its details.  4. The system presents the appointment details, including the patient's name, contact details, and medical history, as well as the doctor's name, specialty, and any other relevant information.  5. The admin selects the "Edit" option to modify the appointment details.
Alternate Flows	If the appointment to be edited does not exist within the system, the system displays an appropriate error message to the Stakeholder Admin. If the Stakeholder Admin is not authenticated or authorized to edit appointments within the system, the system denies access to the appointment editing functionality and displays an appropriate error message.

Use Case Name	View Prescription
Actor	Admin
Pre-Condition	Log in
Flow of events	1. The system will present the admin dashboard to the admin. 2. The admin selects the "Patient List" optionfrom the dashboard. 3. The system presents a list of all patients in the system, sorted by nameor other relevant criteria. 4. The admin can filter the list based on specific criteria, such as the patient's name, age, or medical condition. 5. Then admin can select the "View Prescription" option from the dashboard. 6. The system presents the patient's details, including their name, contact information, and medical history. 7. The admin selects the "Prescriptions" option to view the patient's prescriptions.
Alternate Flows	If the patient does not have a recorded prescription within the system, the system displays an appropriate message to the Stakeholder Admin.  If the Stakeholder Admin is not authenticated or authorized to access

prescription information,
the system denies access
to the prescription details
and displays an
appropriate error
message.

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Use Case Name	See Doctor's Ratting
Actor	Admin
Pre-Condition	Log in
Flow of events	1. The system will present the admin dashboard to the admin. 2. The admin selects the "Doctor List" optionfrom the dashboard. 3. The system presents a list of all doctors in the system, sorted by nameor other relevant criteria. 4. The admin selects a doctor from the list to view their details. 5. The system presents the doctor's details, including their name, contact information, specialty, education, and work experience. 6. The admin selects the "Ratings" option to view the doctor's rating and reviews
Alternate Flows	If the doctor does not

have a recorded rating
9
within the system, the
system displays an
appropriate message to
the Stakeholder Admin.
If the Stakeholder Admin
is not authenticated or
authorized to access
doctor information, the
system denies access to
the rating details and
displays an appropriate
error message.

Use Case Name	Log Out
Actor	Admin
Pre-Condition	Log in
Flow of events	Simply click the "Log Out" option from the below left corner of admin dashboard. Then confirm the popup for logout.

## **Use case Description for Doctor**

Use Case Name	Login
Actor	Doctor
Pre-Condition	Sign Up
Flow of events	1. At first, enter the username and password for log in as a Doctor to the system. 2. Then click on the "Login" button. If provided username and password get verified correctly then he/she can
	login to the system as a Doctor.

User Name	View Patient List
Actor	Doctor
Pre-Condition	Log in
Flow of events	1. The system will present the dashboard to the doctors. 2. Then the doctors select the "Patient List" option from the dashboard. 3. The system presents a list of all patients in the system, sorted by nameor other relevant criteria. 4. The Doctor can filter the list based on specific criteria, such as the patient's name, age, or medical condition. 5. The system presents the patient's details, including their name, contact information, and medical history.
Alternate Flows	If there are no patients registered within the system, the system displays an appropriate message to the Stakeholder Admin. If the Stakeholder Admin is not authenticated or authorized to access patient information, the system denies access to the patient list and displays an appropriate error message.

Use Case Name	See Patient Info
Actor	Doctor
Pre-Condition	The doctor must be

	1 1
	logged in to the system.
	The patient whose
	information the doctor
	wants to see must already
	be registered in the
	system.
Flow of events	1. The system will
1 low of events	present the dashboard to
	*
	the doctors.
	2. Then the doctors select
	the "See Patient Info"
	option from the
	dashboard.
	3. The system presents a
	list of all patients in the
	system, sorted by nameor
	other relevant criteria.
	4. The Doctor can filter
	the list based on specific
	criteria, such as the
	patient's name, age, or
	medical condition.
	5. The doctor selects the
	patient whose
	information he or she
	wants to see from the list
	6. The system displays
	the patient's information,
	including their name, ID
	number, medical history,
	and other relevant
	information
Alternate Flows	If no patients are found
	that match the search
	criteria, the system
	· · · · · · · · · · · · · · · · · · ·
	displays a message
	indicating that no
	patients were found and
	returns the doctor to the
	search screen to try again.
	If the doctor selects a
	patient whose
	information is incomplete
	or missing, the system
	displays a message

indicating	that	the
patient's in	nformatio	n is
incomplete	and ad	vises
the doctor	to contac	t the
patient to	update	their
information		

Use Case Name	Set Available Time for
	Appointment
Actor	Doctor
Pre-Condition	The doctor must be
	logged in to the system
	The doctor must have a
	schedule for the period
	during which he or she
	wishes to set availability.
Flow of events	1. The system will
	present the dashboard to
	the doctors.
	2. Then the doctors select
	the "Set Available Time
	for Appointment" option
	from the dashboard.
	3. The doctor selects the
	"Set Available Time"
	option from the main
	menu
	4. The system displays a
	calendar or date range
	where the doctor can
	select the date or dates for
	which he or she wishes to
	set availability 5. The doctor selects the
	date or dates for whichhe
	availability 6. The system displays a
	schedule for the selected
	date or dates and allows
	the doctor to indicate the
	time slots that are
	available for
	appointments

Alternate Flows	7. The doctor selects the time slots that are available for appointments 8. The system confirms the selected time slotsand updates the doctor's schedule accordingly  If the doctor selects a date for which he or she has already set availability, the system displays the existing availability and allows the doctor to modify it as needed.  If the doctor selects a time slot that conflicts with an existing appointment or availability, the system
	allows the doctor to modify it as needed.
	time slot that conflicts with an existing
	a different timeslot.  If the doctor does not have a schedule for the selected date or date
	range, the system displays a message indicating that the doctor must create a schedule for that period before setting availability.
	setting availability.

Use Case Name	Edit Prescription
Actor	Doctor
Pre-Condition	The doctor must be logged in to the system The doctor must have an existing prescription for the patient that he or she wishes to edit

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Flow of events	1. The system will
	present the dashboard to
	the doctors.
	2. Then the doctors select
	the "Edit Prescription"
	option from the
	dashboard.
	3. The doctor selects the
	"Edit Prescription"
	option from the main
	menu.
	4. The system displays a
	search screen where the
	doctor can search for the
	patient by name, ID
	number, or other criteria
	5. The doctor selects the
	patient whose
	prescription he or she
	wants to edit from the list
	6. The system displays
	the patient's existing
	prescription information,
	including the medication,
	dosage, and frequency
	7. The doctor makes the
	necessary changes to the
	prescription information.
Alternate Flows	If no patients are found
Thermace Tiows	that match the search
	criteria, the system
	. 10
	patients were found and
	returns the doctor to the
	search screen to try again.
	If the doctor selects a
	patient whose
	prescription informationis
	incomplete or missing,
	the system displays a
	message indicating that
	the prescription
	information is incomplete
	and advises the doctor to

update	the	information
before e	ditin	g it.

Use Case Name	View Available Medicine
Actor	Doctor
	Doctor
Pre-Condition	The doctor must be logged in to the system The system must have a database of available medicine and related information
Flow of events	1. The system will present the dashboard to the doctors. 2. Then the doctors select the "View Available Medicine" option fromthe dashboard. 3. Then the system displays a search screen where the doctor can search for medicine by name, manufacturer, or other criteria. 4. The doctor enters the search criteria and clicks the "Search" button 5. The system displays a list of available medicine that match the search criteria, along with relevant information such as the medication name, dosage, manufacturer, and any warnings or side effects 6. The doctor can scroll through the list or select a specific medicine to
	view more detailed
Alternate Flows	information.  If no medicine is found that matches the search

criteria, the system displays message a indicating that no medicine was found and returns the doctor to the search screen to try again. If the doctor selects a medicine that is not currently available, the system displays message indicating that the medicine is out of stock or not available and advises the doctor to consider an alternative medication.

Use Case Name	Search Medicine
Actor	Doctor
Pre-Condition	The doctor must be logged in to the system The system must have a database of available medicine and related information.
Flow of events	1. The system will present the dashboard to the doctors. 2. Then the doctors select the "Search Medicine" option from the dashboard. 3. The system displays a search screen where the doctor can search for medicine by name, manufacturer, or other

4. The doctor enters the search criteria and clicks the "Search" button 5. The system displays a list of available medicine that matches the search criteria, along with relevant information such as the medication name, dosage, manufacturer, and any warnings or side effects.  Alternate Flows  If no medicine is found that matches the search criteria, the system displays a message indicating that no medicine was found and returns the doctor to the search screen to try again. If the doctor selects a medicine that is not currently available, the system displays a message indicating that the medicine is out of stock or not available and advises the doctor to consider an alternative medication.		criteria
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consider an alternative		

Use Case Name	Log Out
Actor	Doctor
Pre-Condition	The doctor must be logged in to the system.
Flow of events	Simply click the "Log Out" option from the below left corner of admin dashboard. Then confirm the popup for logout.

## **Use case Description for User**

Use Case Name	Login
Actor	User
Pre-Condition	Sign Up
Flow of events	1. At first, enter the username and password for log in as a User to the system.  2. Then click on the "Login" button. If provided username and password get verified correctly then he/she can
	login to the system as admin.

Use Case Name	View Available Medicine
Actor	User
Pre-Condition	The user must be logged in to the system
	The system must have a database of available medicine and related information
Flow of events	1. The system will present the dashboard to the users. 2. Then the users select the "View Available Medicine" option fromthe dashboard. 3. Then the system displays a search screen where the user can search for medicine by name, manufacturer, or other criteria. 4. The user enters the search criteria and clicks the "Search" button

_	
Alternate Flows	5. The system displays a list of available medicine that match the search criteria, along with relevant information such as the medication name, dosage, manufacturer, and any warnings or side effects 6. The user can scroll through the list or select a specific medicine to view more detailed information.  If no medicine is found that matches the search criteria, the system displays a message indicating that no medicine was found and returns the user to the search screen to try again. If the user selects a medicine that is not currently available, the system displays a
	returns the user to the search screen to try again. If the user selects a medicine that is not currently available, the
	the medicine is out of stock or not available and advises the user to consider an alternative medication.

Use Case Name	Search Medicine
Actor	User
Pre-Condition	The user must be logged in to the system.  The system must have a database of available medicine and related information
Flow of events	1. The system will present the dashboard to the users. 2. Then the doctors select the "Search Medicine" option from the dashboard. 3. Then the system displays a search screen where the user can search for medicine by name, manufacturer, or other criteria. 4. The user enters the search criteria and clicks the "Search" button 5. The system displays a list of available medicine that matches the search criteria, along with relevant information such as the medication name, dosage, manufacturer, and any warnings or side effects. 6. The user can scroll through the list or select a specific medicine to view more detailed
Alternate Flows	information.  If no medicine is found that matches the search criteria, the system displays a message indicating that no medicine was found and returns the user to the search screen to try

again.
If the user selects a
medicine that is not
currently available, the
system displays a
message indicating that
the medicine is out of
stock or not available and
advises the user to
consider an alternative
medication.

Use Case Name	Order Medicine &
Ose Case Ivame	Medical Equipment
Actor	User
	Osei
Pre-Condition	The user must be logged
	in to the system.
	The system must have a
	database of available
	medicine and medical
	equipment.
	The user must have a
	valid prescription or
	medical need for the
	items being ordered.
Flow of events	1. The system will
	present the dashboard to
	the users.
	2. Then the doctors select
	the "Order Medicine &
	Medical Equipment"
	option from the
	dashboard.
	3. The user selects the
	"Order Medicine &
	Medical Equipment"
	option from the main
	menu.
	4. The system displays a
	search screen where the
	user can search for
	medicine or medical
	equipment by name,
	manufacturer, or other

criteria. 5. The user enters the search criteria and clicks the "Search" button. 6. The system displays a list of available medicine and medical equipment that match the search criteria, with along relevant information such the item name, description, price, and availability. Alternate Flows If no items are found that match the search criteria, the system displays a message indicating that no items were found and returns the user to the search screen to try again. If the user attempts to add an item to their cart that is of stock out unavailable, the system displays a message indicating that the item is not currently available and advises the user to consider an alternative item. If the user encounters any issues during the checkout process, such as invalid payment method or incorrect shipping information, the system provides feedback and prompts the user to correct any errors.

Use Case Name	See Available Doctors
Actor	User
Pre-Condition	The user must be logged in to the system.  The system must have a database of available doctors and their schedules.
Flow of events	1. The system will present the dashboard to the users. 2. Then the doctors select the "See Available Doctors" option from the dashboard. 3. The system displays a search screen where the user can search for doctors by name, specialty, location, or other criteria. 4. The system displays a list of available doctors that match the search criteria, along with relevant information such as the doctor's name, specialty, location, and availability.
Alternate Flows	If no doctors are found that match the search criteria, the system displays a message indicating that no doctors were found and returns the user to the search screen to try again.

Use Case Name	View Appointment
Actor	History User
Pre-Condition	The user must be logged in to the system.  The user must have previously booked one or more appointments using the system
Flow of events	1. The system will present the dashboard to the users. 2. Then the doctors select the "View Appointment History" option from the dashboard. 3. The system retrieves and displays a list of all past and upcoming appointments for the user 4. For each appointment in the list, the system displays the appointment date and time, the doctor's name and specialty, the appointment location, and any notes or comments associated with the appointment. 5. The user can scroll through the list or select a specific appointment to view more detailed information. 6. The user can review the information and can choose to print the details
	or download them in a PDF format.
Alternate Flows	If the user has not previously booked any appointments, the system displays a message indicating that no appointment history is

in to The previ availa	user must be logged the system.
in to The previ availa	
to see The revie availa date	user must have lously searched for able doctors and d a doctor they wish
Flow of events  1. prese the us 2. The the Appointment of the Appointm	The system will ent the dashboard to sers. Then the doctors select "Ask For an ointment" option the dashboard. The system displays ppointment duling screen, preduling screen, preduction and selected date and time, the intment details, such e date and time, the intment location, and additional notes or ments. The user clicks the quest Appointment" on to submit the intment request tothe

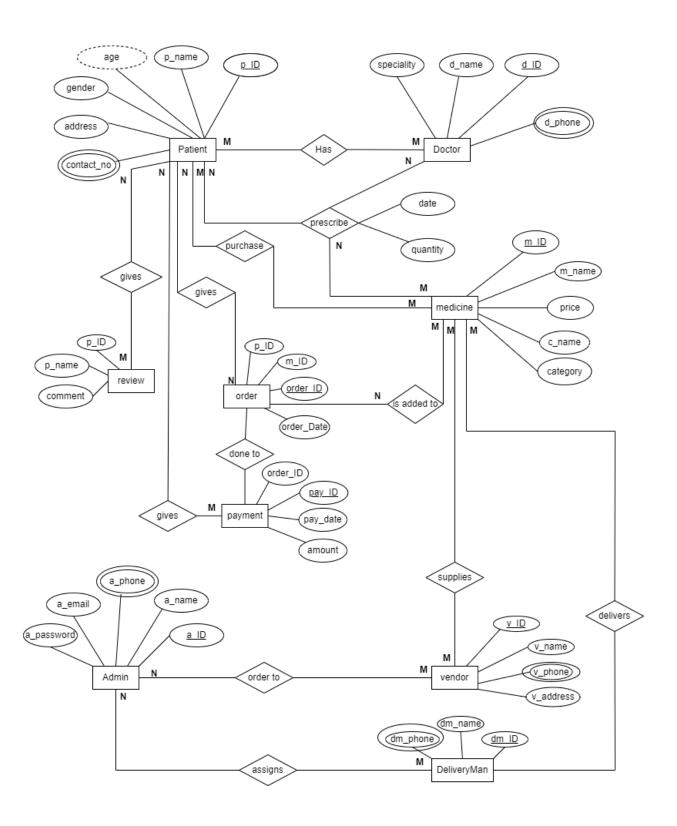
	notification to the doctor, indicating that a new appointment request has been made.
Alternate Flows	If the selected date and time are not available for the selected doctor, the system displays a message indicating that the appointment cannot be scheduled at that time and offering alternative available times or other doctors.

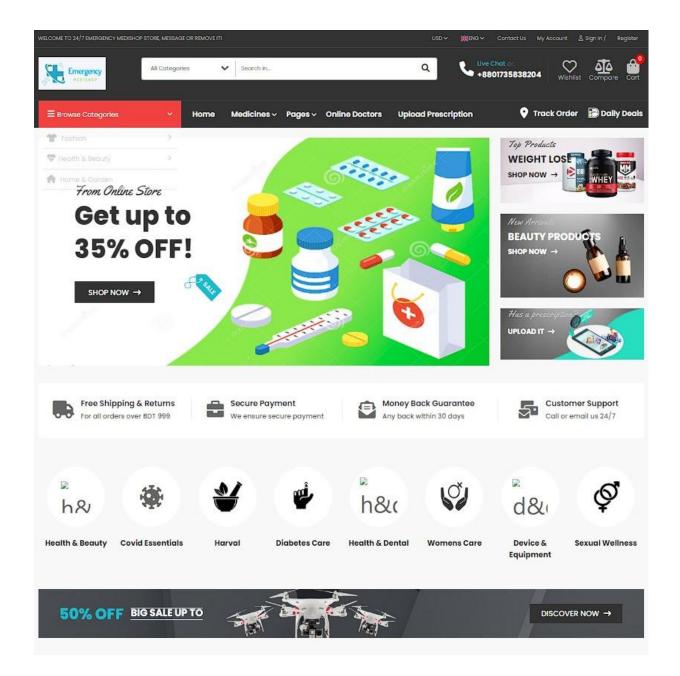
Use Case Name	Feedback
Actor	User
Pre-Condition	The user must be logged in to the system.  The user must have had an appointment with a doctor through the system.
Flow of events	1. The system will present the dashboard to the users. 2. Then the doctors select the "Feedback" option from the dashboard. 3. The system displays a feedback form, prompting the user to provide feedback on their experience with the doctor they had an appointment with. 4. The user can rate the doctor's professionalism, knowledge, and communication on ascale of 1 to 5, and can provide additional comments or suggestions

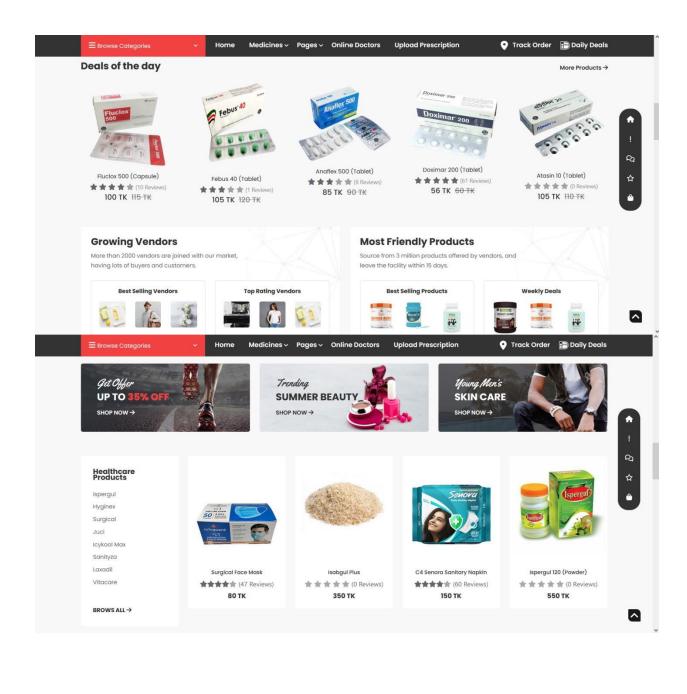
	in a text box. 5. The user clicks the "Submit" button to submit their feedback			
	6. The system records the			
	feedback in the system's			
	database and sends a			
	notification to the doctor.			
Alternate Flows	If the user chooses not to			
	provide feedback, they			
	can simply exit the			
	feedback form without			
	submitting any			
	information.			

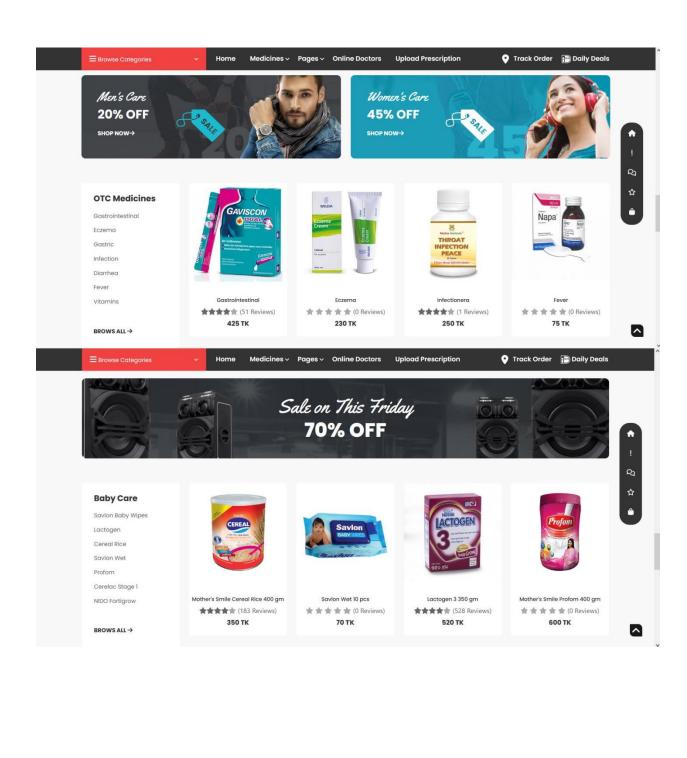
Use Case Name	Log Out		
Actor	User		
Pre-Condition	The user must be logged		
	in to the system.		
Flow of events	1. Simply click the "Log		
	Out" option from the		
	below left corner ofadmin		
	dashboard.		
	2. Then confirm the		
	popup for logout.		

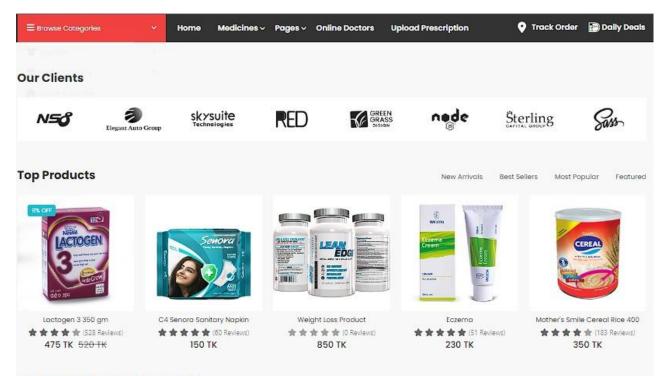
### **Entity Relationship Diagram (ERD)**





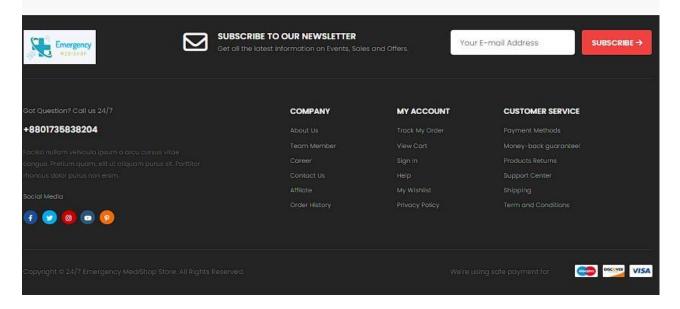


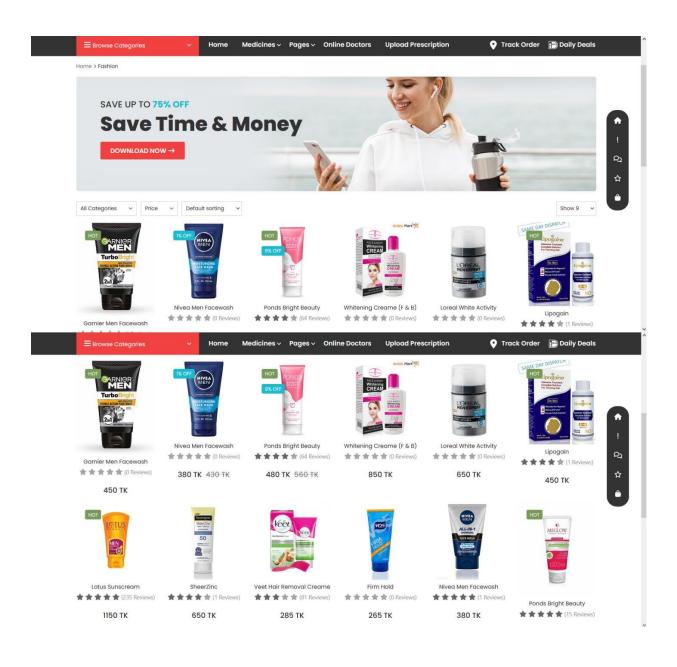


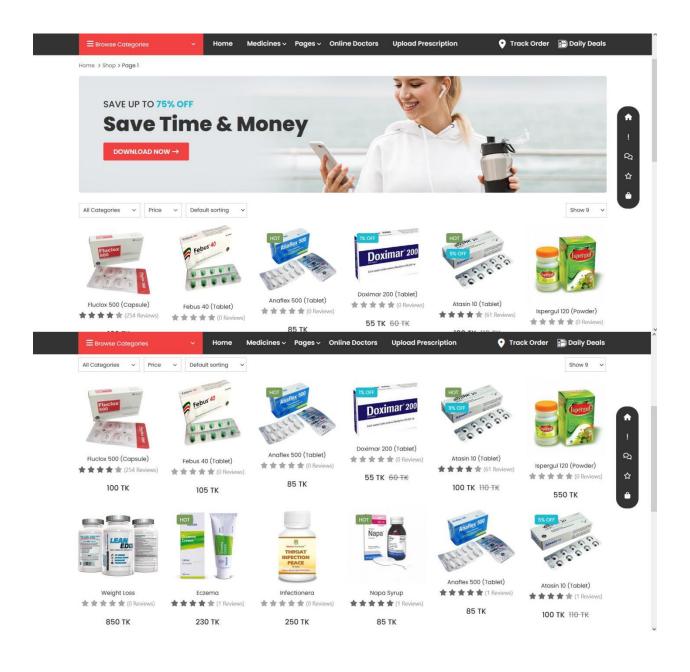


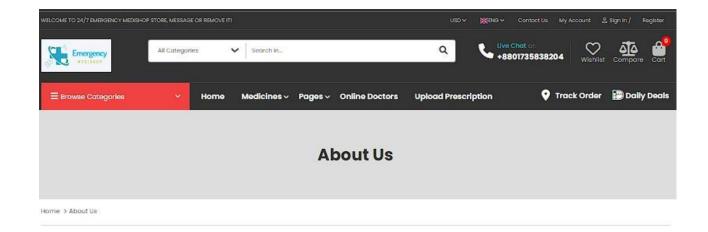
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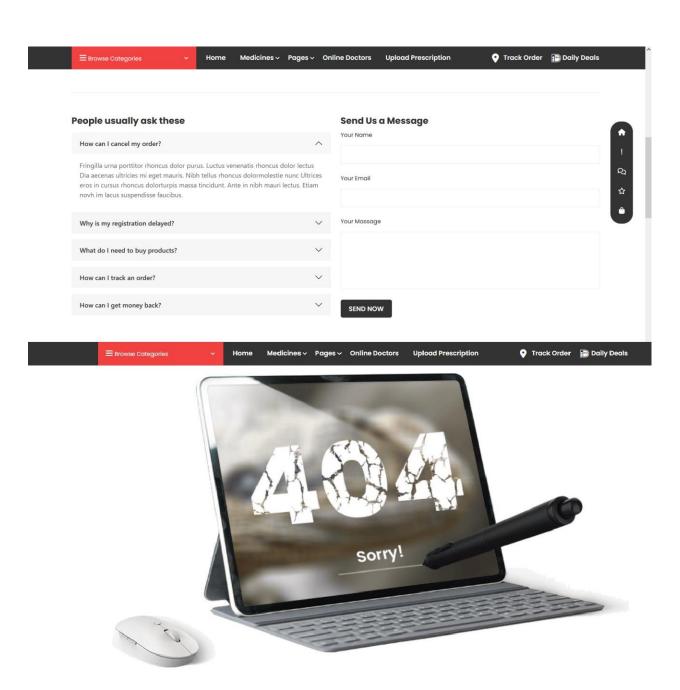


Mr. Md. Shohel Arman



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