

# **E-PRESCRIPTION**

A Project Submitted

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Bachelor of Science in Computer Science and Engineering

**Comilla University**

3rd Year 5th Semester, 2020

# **E-PRESCRIPTION**

A Project submitted to the Department of Computer Science and Engineering, Comilla University in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering.

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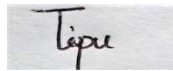
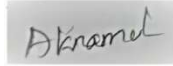

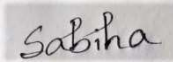
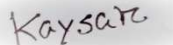
**Department of  
Computer Science and Engineering  
Comilla University**



3<sup>rd</sup> Year 1<sup>st</sup> Semester, 2020

## Declaration

This is to certify that this project is my original work. No part of this work has been submitted elsewhere partially or fully for the award of any other degree or diploma. Any material reproduced in this project has been properly acknowledged.

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## BONAFIDE CERTIFICATE

The Project titled “**E-Prescription**” has been submitted to the following respected members of the Board of Examiners in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering in June 2020 by the following student and has been accepted as satisfactory.

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Lastly, we would like to convey our gratitude to the lecturers in our Faculty for the good job done during the 3 years of our course. May the good Lord bless them and keep them safe. We love you all.

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## ABSTRACT

The “**E-Prescription**” application is developed to maintain information about patients. The complexity and potential impact of today's health care crisis requires a comprehensive approach to problem analysis and innovative thinking in developing solution strategies. Patient care, by its information-intensive nature, involves extensive information processing for decision-making and requires the support of an effective and efficient information system. Modern technologies have improved the ability to electronically storing, transferring, and sharing medical data also changed. At the same time, they also create serious questions about who has access to this information and how they are protected. PIS aims to store detailed information about the Patient like treatment details, date of joining, and allocated doctor. This project help us to know the patient details, the type of treatment he/ she undergoing, the consulted doctor details, his / her visiting hours, information about the doctors included and deleted. It also allows adding/editing patient registration. To know the list of doctors available



# Chapter 1

## Introduction

This software can be used to keep track of the patients registering in a clinic, this system supports accessing the previous visit histories of any patient, search for patients by name and other properties, etc. This system involves three people's patient, doctor, and assistant. It is useful to know the details of consulted doctor details and of a patient who is undergoing treatment under this doctor. To know the treatment details provided by the doctor. The patient has registered with the system and give a serial from their profile and also give the symptoms and transection id.. After login assistant can know the patient details by patient id. And if transection id match then he/she go to the patient info. And transfer symptoms to symptoms box then click on the submit button and it automatically refers to the doctor's.

### 1.1 Objective:

E-Prescription will support registering patients. Users of this software can search for patients by name, admission date, discharge date, etc. The system can maintain the list of doctors in the hospital.

### 1.2 Motivation:

We often forget to take medicine at a required time, sometimes take more or less doses than necessary. We also fail to keep track the medicines taken previously. These results in a longer period of illness as proper time scheduled medication is required for recovery from illness. Elderly people faces difficulty about memorizing the names of the medicines, thus takes wrong medicines which can have serious health impact on their health. We might be safe when people are around us to remind about our time to take medicines, but most of the people are self-dependent in terms of taking medicine in our country. For all these reasons, we require something that would remind us of our schedules and also be a note-taker of our taken medicines. As almost everyone uses a smartphone these days, a medicine reminder application is the thing they need to solve all these problems.

# **Chapter 2**

## **Literature Review**

### **2 Literature Overview:**

From this project we can assure designing and implementing the new links, designing and implementing users and arranging new links as subject wise.

#### **2.1 System Analysis**

System analysis will be performed to determine if it is feasible to design information based on policies and plans of the organization and user requirements and to eliminate the weaknesses of the present system. The new system should be cost-effective, augment management, improve productivity and services, enhance user/system interface, upgrade the system's reliability, availability, flexibility, and growth potential, improve information quality and usability.

#### **2.2 Proposed System**

The proposed system is an attempt to provide a solution to know the details of the patient, doctor. The main aim of this system is to simplify the procedure while admitting to the hospital. This makes life easy for the patient's relatives knowing the details of visiting doctors, treatment details, and other details. The implementations of the above modules have evolved user- friendly computerized systems which are loved and cared for by all.

#### **2.3 User Requirements:**

1. The user easily registers with the system and take a serial.

2. Users can view the status of treatment.
3. He can know information about the consulted doctor.
4. He can retrieve of reference data by online (For example printing the prescription)
5. On request test result print/reprint facility eliminated the patient waiting time for report collection.
6. Online scheduling for appointments by doctors eliminated the patient waiting time.
7. In this system, Users will have facilities like a regular doctor.

## **2.4 Hardware & Software Specification**

### **2.4.1 Hardware Requirements:**

|                 |   |                   |
|-----------------|---|-------------------|
| Processor       | = | Intel P-IV system |
| Processor speed | = | 250MHz to 833MHz  |
| RAM             | = | 1GB               |
| Hard Disk       | = | 40GB              |

### **2.4.2 Software Requirements:**

|                        |   |                                 |
|------------------------|---|---------------------------------|
| Operating System       | = | Windows 7 /8/ 10/<br>linux/ mac |
| Database               | = | SQL Server                      |
| Server-side technology | = | PHP                             |
| Server-side scripting  | = | PHP, MySQL                      |
| Client-side scripting  | = | HTML, CSS,<br>Bootstrap         |

## Chapter 3

### METHODOLOGY AND DESIGN

#### 3.0 Use case Diagram

PHP is a server-side scripting language that is used to develop Static websites or Dynamic websites or Web applications. PHP stands for Hypertext Pre-processor, that earlier stood for Personal Home Pages. It was created by Rasmus Lerdorf in 1994 and appeared in the market in 1995. A framework is a structure that is used to build an application. It determines the structure of the application and enables them to interrelate with different APIs. An efficient PHP framework helps in developing PHP applications faster and well organized. It also helps in building stable applications by decreasing the repetition of codes. The framework provides various supporting features that enable the developers in building fast and accurate applications. The **features** of an efficient PHP Framework are as follows:

### 3.1.1 Overall Use Case

In this diagram we can show doctor communicate with patient referred by assistant. Doctor prescribed medicine based on patient symptoms.

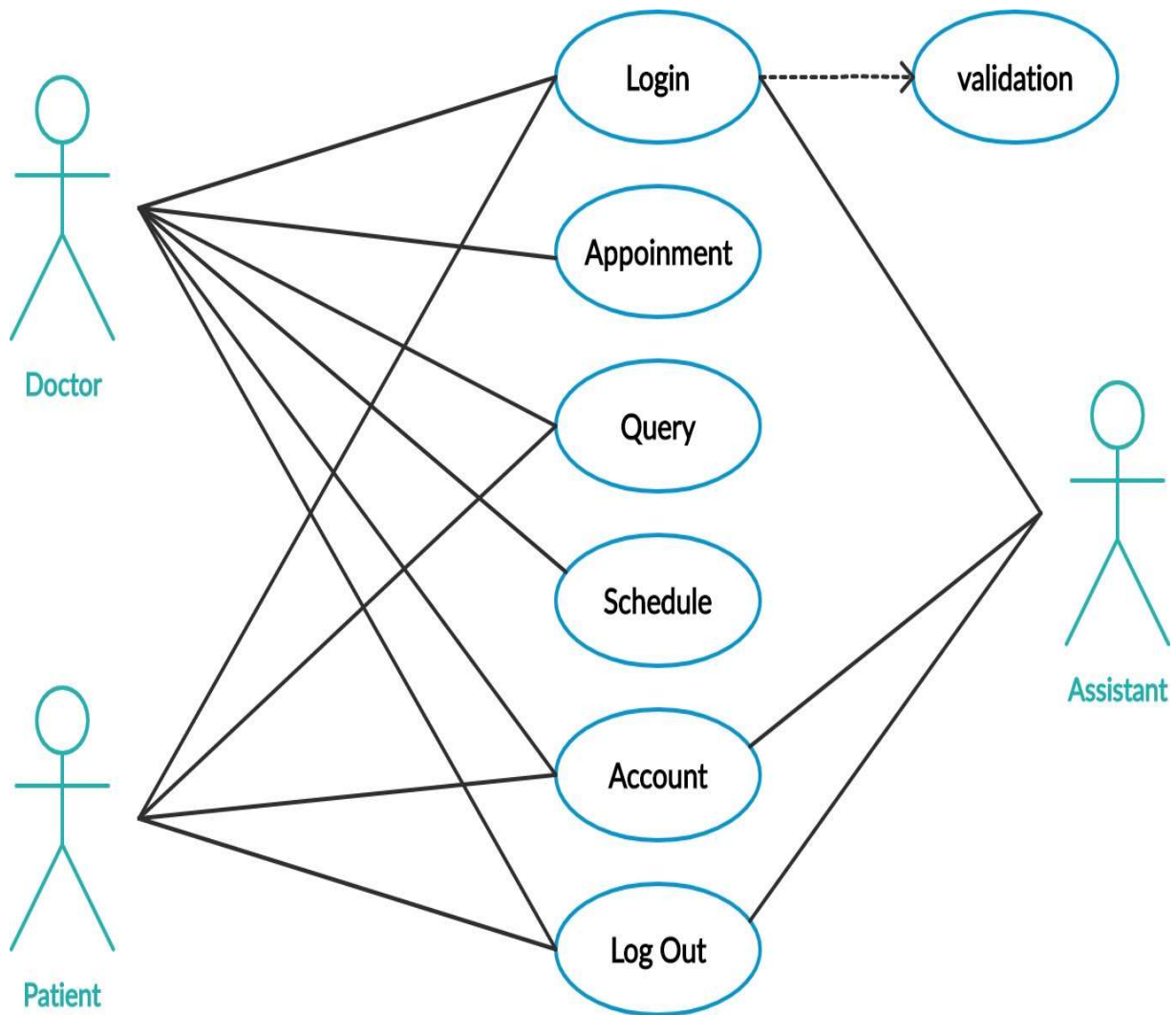


Figure 3. 1.1 Overall use case

### 3.1.2 Doctor Use case

In this diagram we can show doctor can login, check serial, update information of his/her and also check his/her previous patient history and patient details also. And finally he log out from his panel.

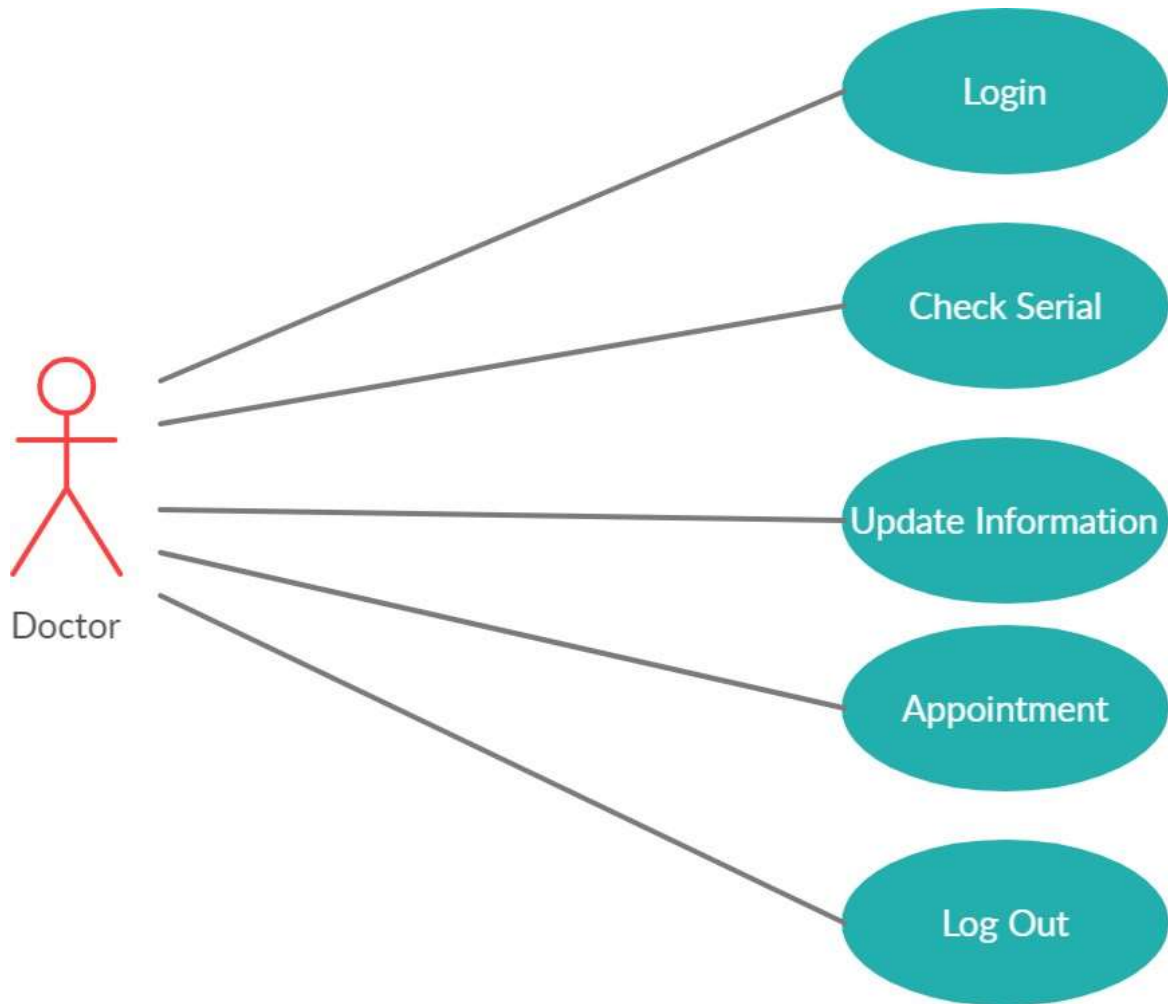


Figure 3. 1.2 Doctor use case

### 3.1.3 Patient Use case

In this diagram we can show patient can login ,create account, update his info, give appointment to doctor and finally logout.

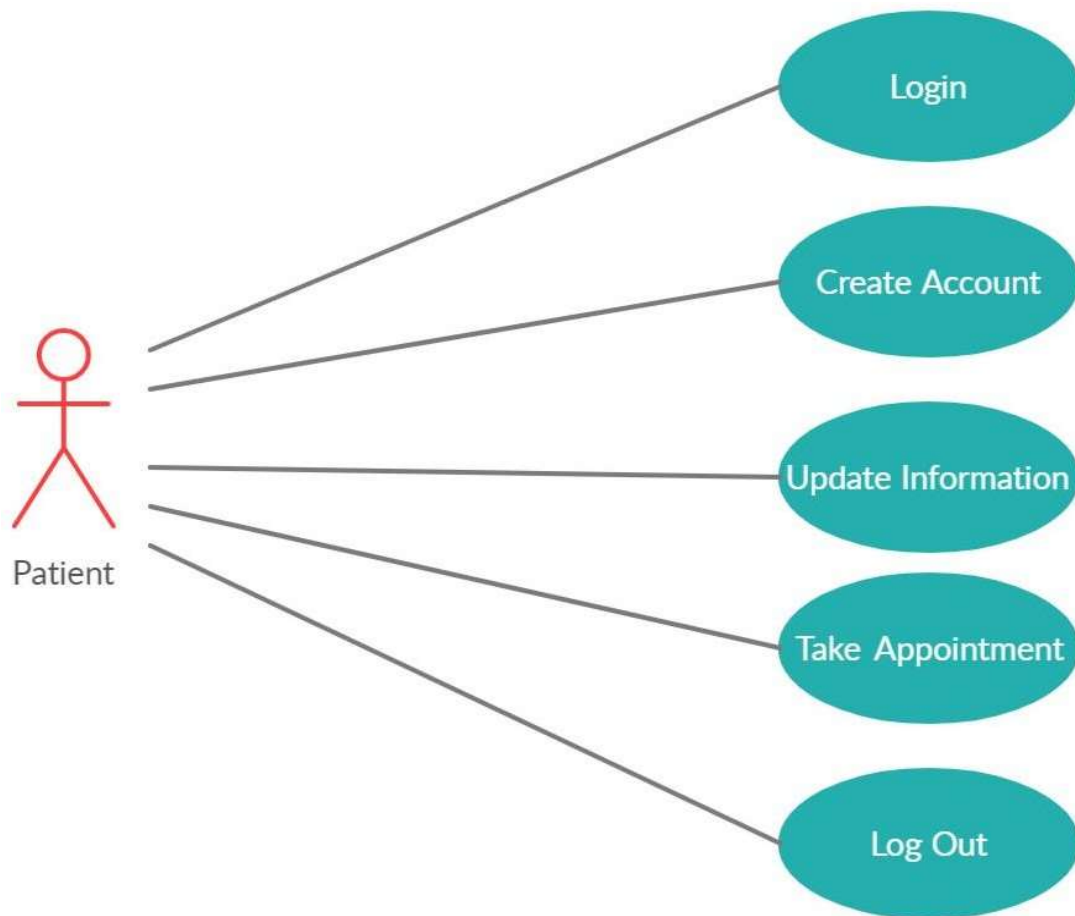


Figure 3.1. 3 Patient use case

### 3.1.4 Assistance Use case

In this diagram we can show assistant can login, update info and ask symptoms and refer to doctor.

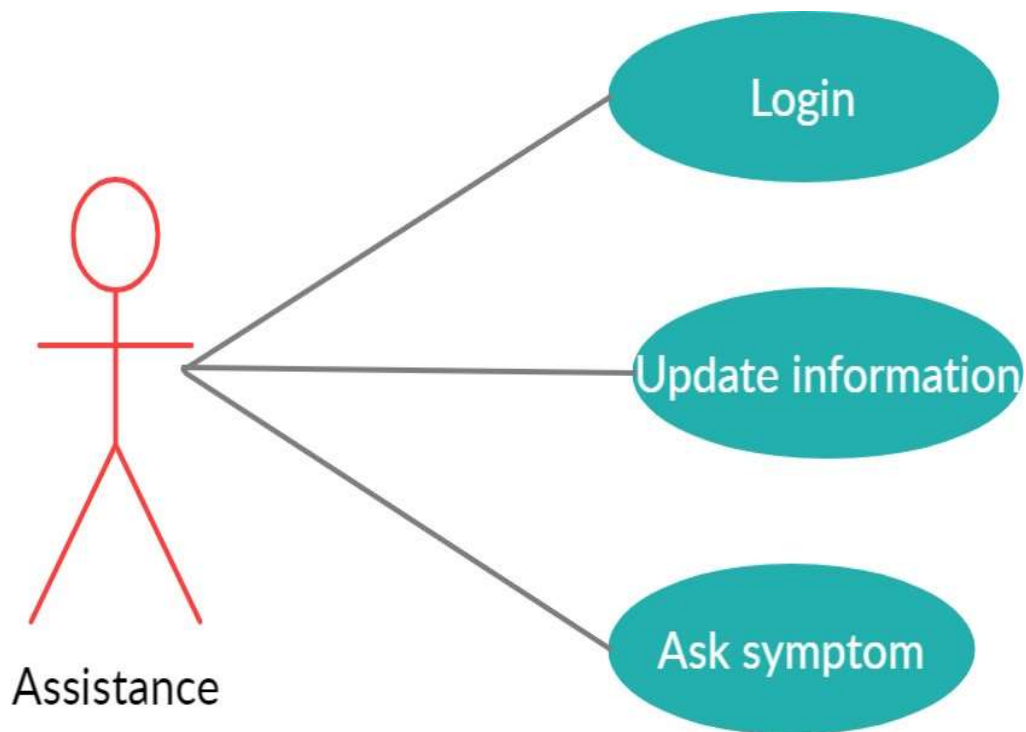


Figure 3.1.4 Assistance use case



### 3.2 ER-Diagram

In this diagram we can see the connection of user flow and data flow. And their attributes also.

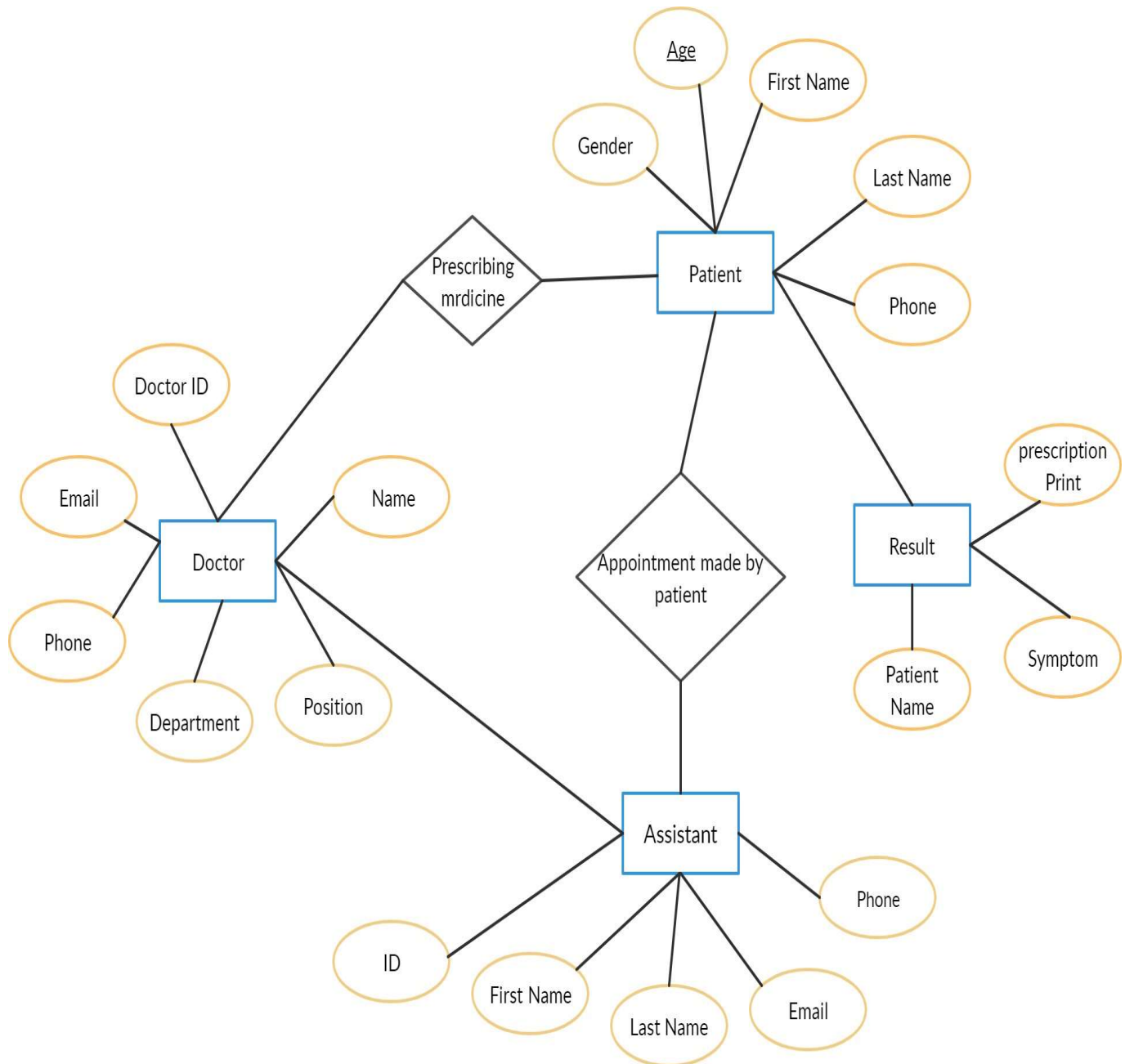


Figure 3.2 ER-Diagram

## Chapter 4

### DATABASE DESIGN

**Table List:**

| Table                                 | Action                                      | Rows | Type   | Collation          | Size     | Overhead |
|---------------------------------------|---|------|--------|--------------------|----------|----------|
| <input type="checkbox"/> assistant    | ★ Browse Structure Search Insert Empty Drop | 1    | InnoDB | utf8_general_ci    | 16.0 KiB | -        |
| <input type="checkbox"/> doctor       | ★ Browse Structure Search Insert Empty Drop | 1    | InnoDB | utf8_general_ci    | 16.0 KiB | -        |
| <input type="checkbox"/> history      | ★ Browse Structure Search Insert Empty Drop | 9    | InnoDB | utf8_general_ci    | 16.0 KiB | -        |
| <input type="checkbox"/> patients     | ★ Browse Structure Search Insert Empty Drop | 1    | InnoDB | utf8_general_ci    | 16.0 KiB | -        |
| <input type="checkbox"/> prescription | ★ Browse Structure Search Insert Empty Drop | 16   | InnoDB | utf8_general_ci    | 16.0 KiB | -        |
| <input type="checkbox"/> serial       | ★ Browse Structure Search Insert Empty Drop | 1    | InnoDB | utf8_general_ci    | 16.0 KiB | -        |
| 6 tables                              | Sum   | 29   | InnoDB | utf8mb4_general_ci | 96.0 KiB | 0 B      |

Figure 4. 1 Table list

**Doctor Database:**

The screenshot shows the phpMyAdmin interface for the 'e-prescription' database. The 'doctor' table is selected, and its structure and data are displayed. The table has 10 columns: id, name, email, password, phone, facebook\_id, doctor\_image, designation, and signature. The data shows one row for Dr. Prof. Sabiha.

| id | name             | email          | password | phone       | facebook_id | doctor_image | designation   | signature |
|----|------------------|----------------|----------|-------------|-------------|--------------|---------------|-----------|
| 1  | Dr. Prof. Sabiha | saba@gmail.com | 12345    | 01738332178 | Sabiha      | sabiha.jpg   | Cardiologists | sing.png  |

Figure 4. 2 Doctor database

## Assistant Database:

Server: localhost:3306 » Database: e-prescription » Table: assistant

Showing rows 0 - 0 (1 total, Query took 0.0011 seconds.)

SELECT \* FROM `assistant`

Options: ☐ Show all | Number of rows: 25 | Filter rows: Search this table

|   | id | first_name | last_name | email            | password | phone       | assistant_image | facebook_id |
|---|----|------------|-----------|------------------|----------|-------------|-----------------|-------------|
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 1  | Kazi       | Shanto    | shanto@gmail.com | 12345    | 01680228823 | assistant.jpg   | Akramul     |

With selected: ☐ Check all | Edit | Copy | Delete | Export

Query results operations: ☐ Show all | Number of rows: 25 | Filter rows: Search this table

Bookmark this SQL query

Label:  ☐ Let every user access this bookmark

Bookmark this SQL query

Figure 4. 3 Assistant database

## All Patient History Database:

Server: localhost:3306 » Database: e-prescription » Table: history

Showing rows 0 - 6 (7 total, Query took 0.0008 seconds.)

SELECT \* FROM `history`

Options: ☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

|   | id | visit_no | patient_id | symptom   | date                |
|---|----|----------|------------|-----------|---------------------|
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 34 | 1        | 10         | vallagena | 2020-09-14 00:46:33 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 35 | 1        | 11         | cold      | 2020-09-14 00:48:01 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 36 | 1        | 12         | fever     | 2020-09-14 17:48:18 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 37 | 2        | 11         | cold      | 2020-09-14 18:07:24 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 38 | 3        | 11         | Fever     | 2020-09-14 18:18:58 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 39 | 1        | 13         | Fever     | 2020-09-14 18:25:12 |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 40 | 2        | 13         | cold      | 2020-09-14 18:36:38 |

With selected: ☐ Check all | Edit | Copy | Delete | Export

Figure 4. 4 History databas

## Chapter 5

### Implementation Results

#### 5.0 Home page:



Figure 5.1 Slide show

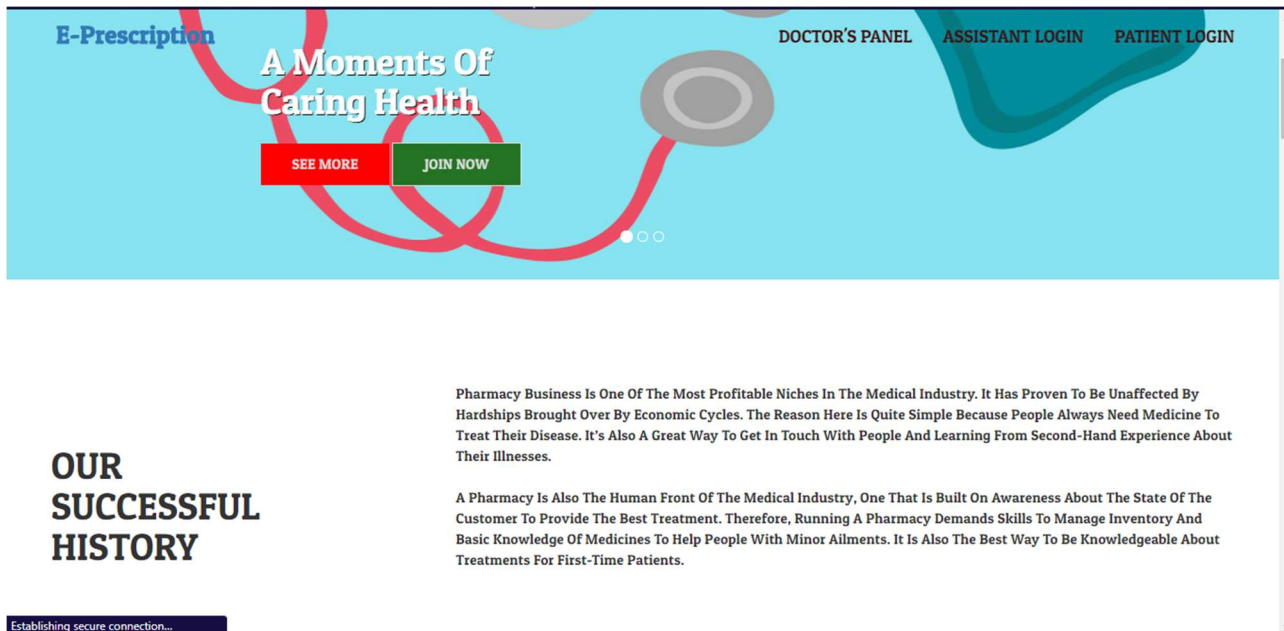



Figure 5.2 History

E-Prescription
DOCTOR'S PANEL
ASSISTANT LOGIN
PATIENT LOGIN



## DR. PROF.SABIHA


**Cardiologists**

Email : saba@gmail.com

Phone : 01738332178

MBBS (DMC) FPPS (BDMI), Cardio Surgery Specialist Degree ( China Medical University). We Help To Protect Patients And Improve Medical Education And Practice In The Bangladesh By Setting Standards For Our Patients. We Support Them In Achieving And Exceeding Those Standards, And Take Action When They Are Not Met.

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Figure 5.3 Doctor info

E-Prescription
DOCTOR'S PANEL
ASSISTANT LOGIN
PATIENT LOGIN

## Comments from our customer

~~~~~

You can ask your question by filling in the form  
Callback

”

**Shakila jafor**  
web designer

”Its really Appretiable such a way they are giving consult and treatment . Good luck to their line of work . Very fast response and reliable”

”

**Amanullah khan**  
Teacher

”For me it is very helpful and very easy way to make sure my health treatment so fast .wishing them all the best”

”

**Ali jafor**  
Employee

”I sastisfied their work on this project treatment online and very fast responsive agrement. I can now check myself working on my office time .wishing them best of luck”

”

**Robiul Aalom**  
Govt job

”Very modern and innovative way to pave such type caring and treatment , I well wished for themselves and those person who are benifitted from here”

”

**Raihana ruby**  
Model

”I often busy with my work . this website helps a lot .very reliable and trusted.I often visit here for my treatment and i am much satisfied”

”

**shipon Chandra**  
Project Engineer

”I am so pleased with this website , i run along a lot in field often get sick and for that i am consulting treatment from here”

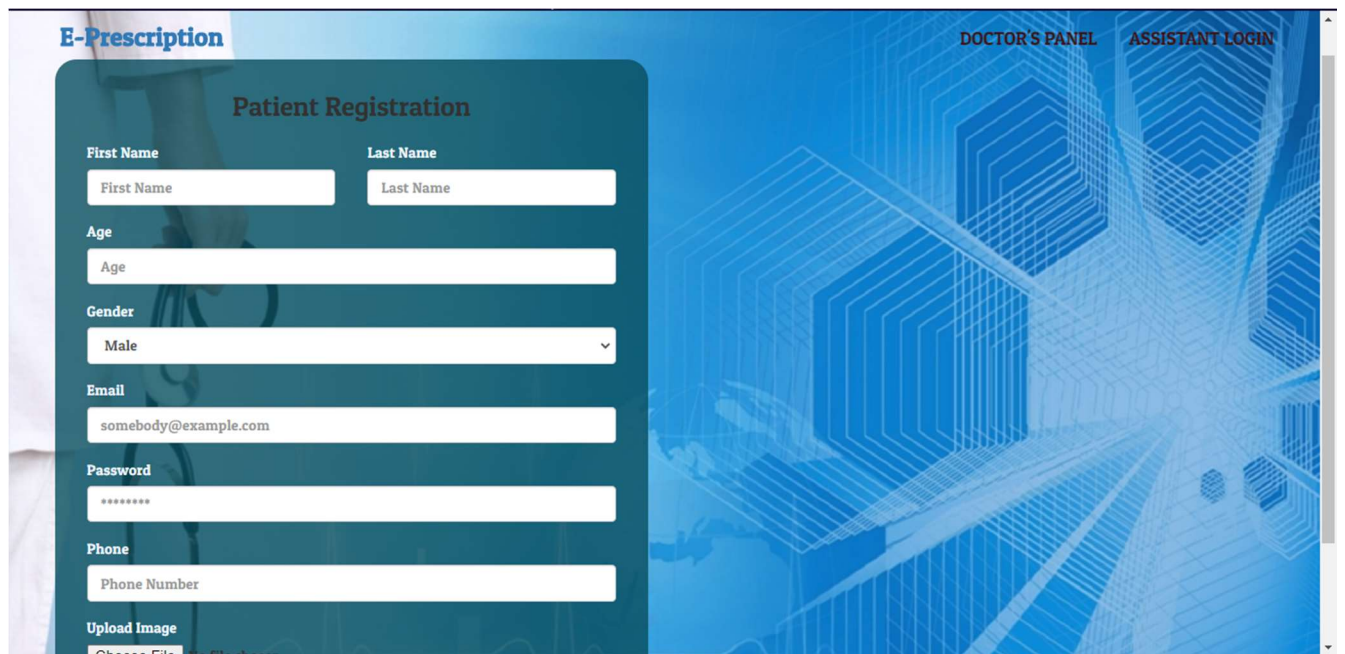
Establishing secure connection...

Figure 5. 4 Patient Comments

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## Patient Registration:



The screenshot shows a web interface for an "E-Prescription" system. At the top, there are links for "DOCTOR'S PANEL" and "ASSISTANT LOGIN". The main section is titled "Patient Registration" and contains a form with the following fields: "First Name" (with a placeholder "First Name"), "Last Name" (with a placeholder "Last Name"), "Age" (with a placeholder "Age"), "Gender" (a dropdown menu currently showing "Male"), "Email" (with a placeholder "somebody@example.com"), "Password" (with a placeholder "\*\*\*\*\*"), "Phone" (with a placeholder "Phone Number"), and "Upload Image" (with a "Choose File" button). The background of the page features a blue abstract geometric pattern.

Figure 5. 5 Patient registration

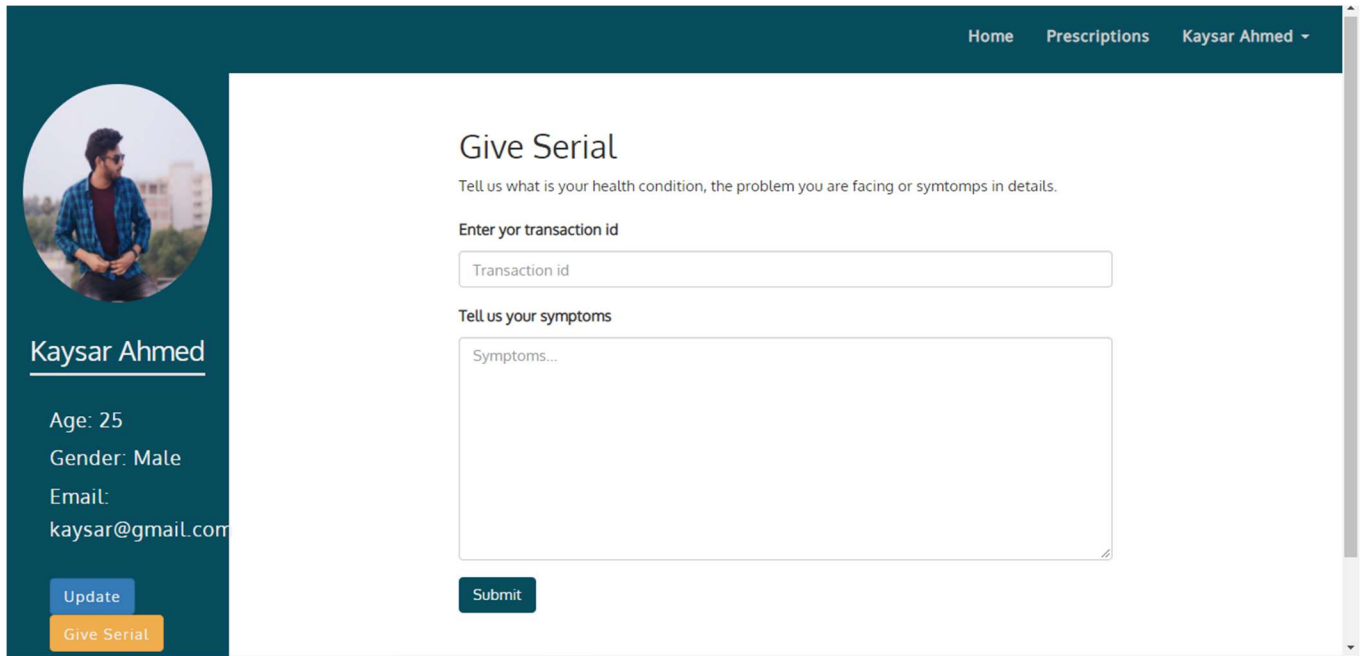
## Patient login:



The screenshot shows a login form with a dark background. It contains two input fields: the first contains the email address "kaysar@gmail.com" and the second contains masked characters ".....". To the right of these fields is a "Login" button.

Figure 5. 6 Patient login

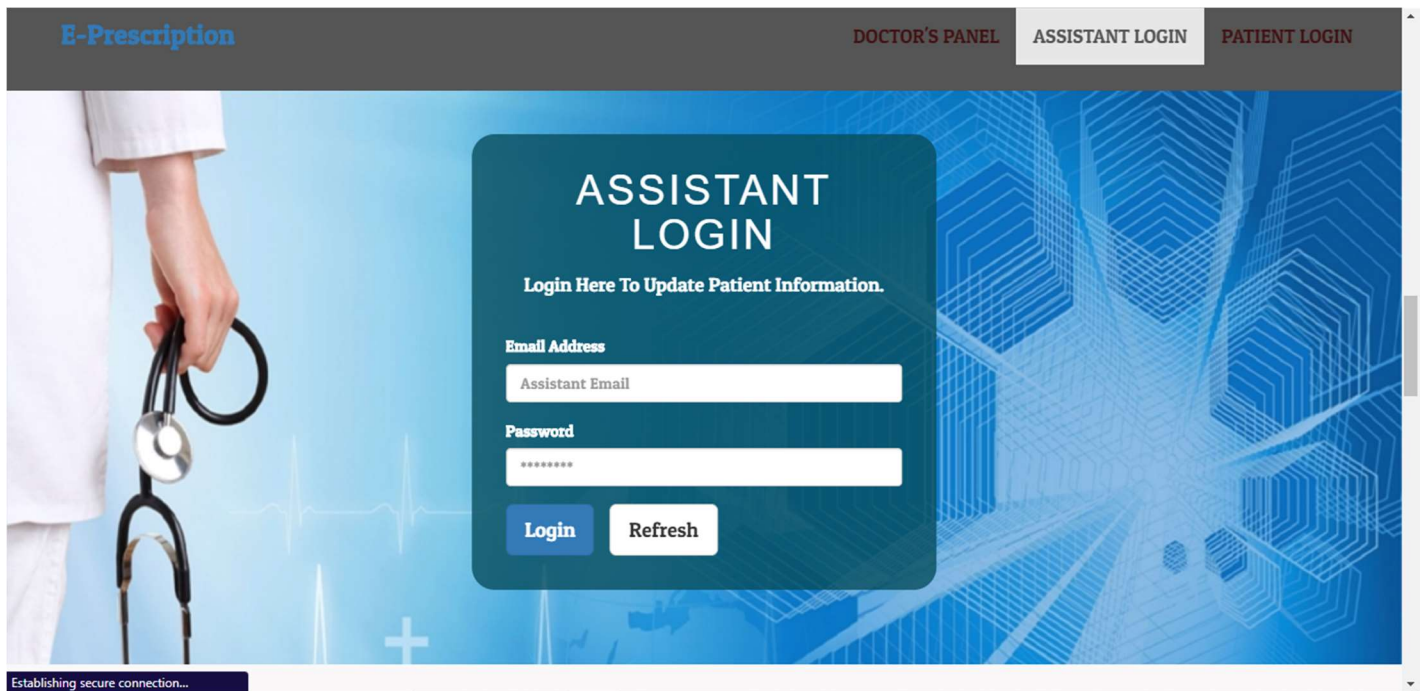
## Patient giving serial:



The screenshot shows a web interface for a patient's profile. On the left, there is a circular profile picture of a man, followed by the name "Kaysar Ahmed". Below the name, the following details are listed: "Age: 25", "Gender: Male", and "Email: kaysar@gmail.com". There are two buttons: "Update" (blue) and "Give Serial" (orange). The main area is titled "Give Serial" and contains the instruction "Tell us what is your health condition, the problem you are facing or symptoms in details." Below this, there is a section "Enter your transaction id" with a text input field labeled "Transaction id". Another section "Tell us your symptoms" has a large text area labeled "Symptoms...". A "Submit" button is at the bottom right of the form.

Figure 5. 7 Patient giving serial

## Assistant Login :



The screenshot shows the "Assistant Login" page of an "E-Prescription" system. The top navigation bar includes "E-Prescription" and three tabs: "DOCTOR'S PANEL", "ASSISTANT LOGIN" (selected), and "PATIENT LOGIN". The main content area features a dark blue login box with the title "ASSISTANT LOGIN" and the instruction "Login Here To Update Patient Information." Below this, there are two input fields: "Email Address" (labeled "Assistant Email") and "Password" (masked with "\*\*\*\*\*"). At the bottom of the box are "Login" and "Refresh" buttons. The background of the page shows a doctor's hand holding a stethoscope over a heart rate line. A status bar at the bottom left indicates "Establishing secure connection...".

Figure 5. 8 Assistant login

## Assistant Panel :

Home Profile Kazi Shanto

**SERIALS**

| Serial Number | Date                | First Name | Last Name | Age | Gender | Phone       | Transaction Id | Ask Symptom                                   |
|---------------|---------------------|------------|-----------|-----|--------|-------------|----------------|-----------------------------------------------|
| 1             | 2020-09-14 18:18:58 | kazi       | shanto    | 24  | male   | 01680228823 | xyz-135432     | <a href="#">Delete</a>                        |
| 3             | 2020-09-14 18:36:38 | Kaysar     | Ahmed     | 25  | male   | 01876542341 | xyz-135432     | <a href="#">Reffer</a> <a href="#">Delete</a> |

Kazi Shanto

shanto@gmail.com

01680228823

Akramul

Update

Figure 5. 9 Assistant panel

## Doctor's Login:

E-Prescription

DOCTOR'S PANEL ASSISTANT LOGIN PATIENT LOGIN

**DOCTOR'S PANEL**

Login Here To Update.

Email Address

Doctor's Email

Password

\*\*\*\*\*

Login Refresh

Establishing secure connection...

Figure 5.10 Doctor's Login



## Doctor's Panel:

Dr. Prof. Sabiha

saba@gmail.com

01738332178

Sabiha

Update

### SERIALS

| Serial Number | Patient Name | Give Prescription     | Remove Patient          |
|---------------|--------------|-----------------------|-------------------------|
| 1             | kazi shanto  | <button>Open</button> | <button>Delete</button> |
| 2             | Kaysar Ahmed | <button>Open</button> | <button>Delete</button> |

localhost/e-prescription/doctor/prescription.php?p\_id=13

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Figure 5.11 Doctor's Panel

## Doctor's Information Update :

### Update Admin Information

Doctor Name  
Dr. Prof. Sabiha

Doctor Email  
saba@gmail.com

Password  
\*\*\*\*\*

Phone  
01738332178

Facebook Id  
Sabiha


Upload Image  
Choose File No file chosen

Update Admin

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Figure 5. 12 Doctor's update information

### Assistant info:



**Dr. Prof.Sabiha**

saba@gmail.com

01738332178

Sabiha

Update

## ASSISTANT INFORMATION



|             |                  |
|-------------|------------------|
| First Name: | Kazi             |
| Last Name:  | Shanto           |
| Email:      | shanto@gmail.com |
| Phone:      | 01680228823      |
| Faceook Id: | Akramul          |


Delete

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Figure 5.13 Assistant info

### Previous Patient:

Home Assistant Info My Patients Search Patient Search Dr. Prof.Sabiha



**Dr. Prof.Sabiha**

saba@gmail.com

01738332178

Sabiha

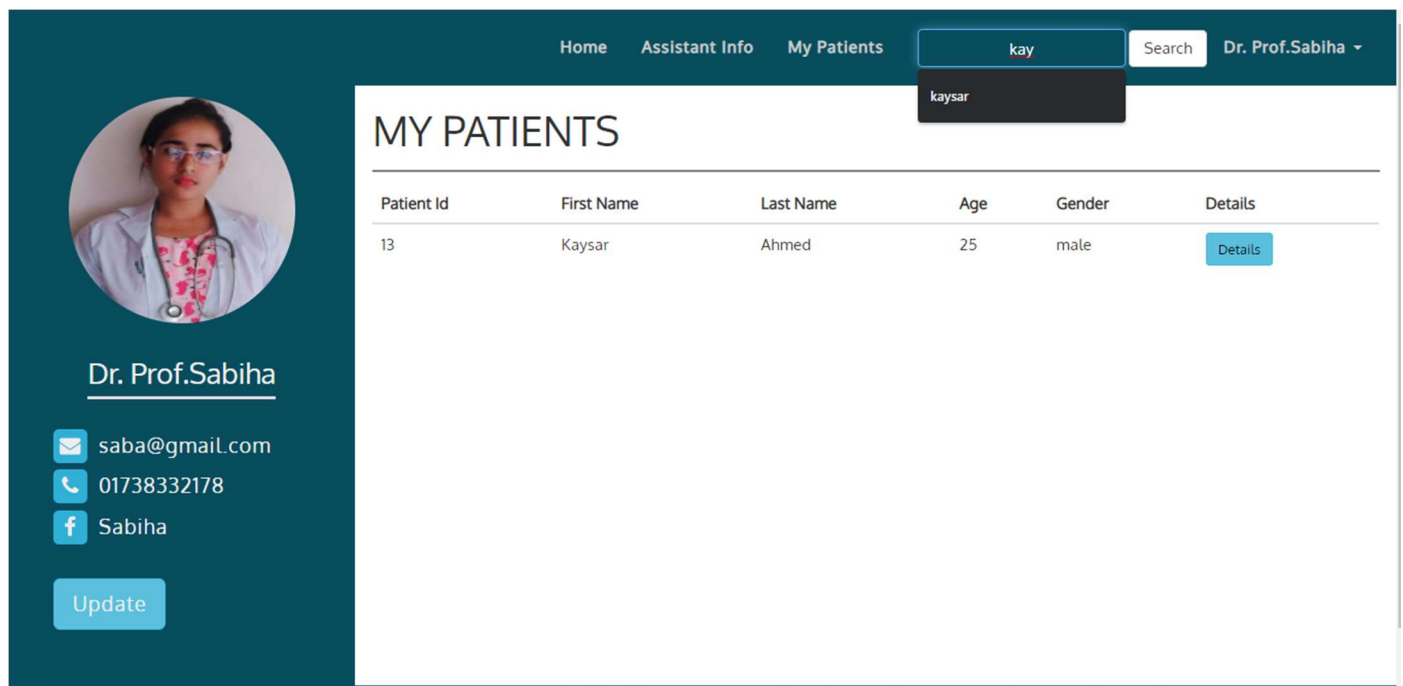
Update

## MY PATIENTS

| Patient Id | First Name | Last Name  | Age | Gender | Details |
|------------|------------|------------|-----|--------|---------|
| 10         | rpel       | specialist | 22  | male   | Details |
| 11         | kazi       | shanto     | 24  | male   | Details |
| 12         | rakib      | rayans     | 21  | male   | Details |
| 13         | Kaysar     | Ahmed      | 25  | male   | Details |

Figure 5.14 Patient History

## Query:



Home Assistant Info My Patients  Search Dr. Prof.Sabiha ▾

### MY PATIENTS

| Patient Id | First Name | Last Name | Age | Gender | Details                 |
|------------|------------|-----------|-----|--------|-------------------------|
| 13         | Kaysar     | Ahmed     | 25  | male   | <a href="#">Details</a> |

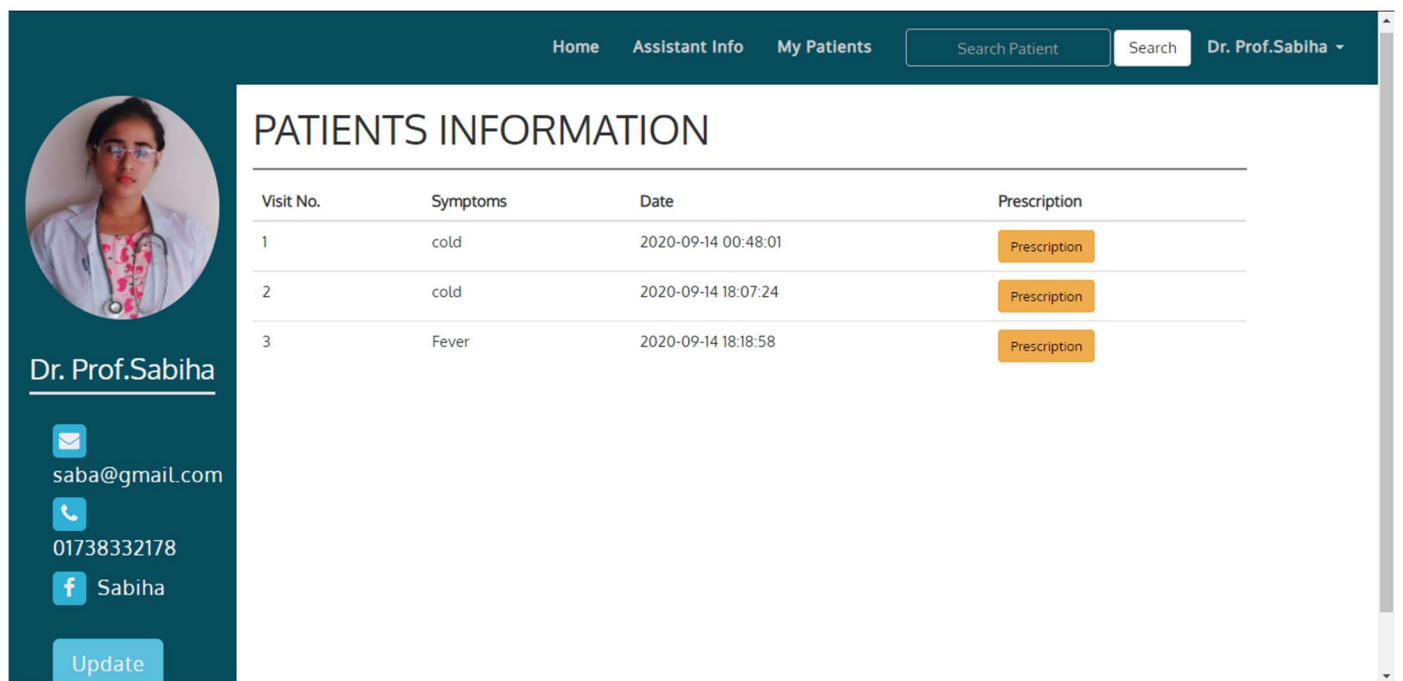
Dr. Prof.Sabiha

saba@gmail.com  
01738332178  
Sabiha

Update

Figure 5.15 Search Patient

## Visited Patient Details:



Home Assistant Info My Patients  Search Dr. Prof.Sabiha ▾

### PATIENTS INFORMATION

| Visit No. | Symptoms | Date                | Prescription                 |
|-----------|----------|---------------------|------------------------------|
| 1         | cold     | 2020-09-14 00:48:01 | <a href="#">Prescription</a> |
| 2         | cold     | 2020-09-14 18:07:24 | <a href="#">Prescription</a> |
| 3         | Fever    | 2020-09-14 18:18:58 | <a href="#">Prescription</a> |


Dr. Prof.Sabiha

saba@gmail.com  
01738332178  
Sabiha


Update


Figure 5.16 Patient Prescription


## Referred Patient info :



**Dr. Prof. Sabiha**


 saba@gmail.com

 01738332178

 Sabiha

[Update](#)

### PRESCRIPTION INFORMATION



|              |              |
|--------------|--------------|
| Patient Id : | 13           |
| Visit no:    | 1            |
| Name :       | Kaysar Ahmed |
| Age :        | 25           |
| Gender :     | Male         |
| Symptoms :   | Fever        |

#### Pharmacy Order

Generic Name

Instruction

No. of Days

[Next](#) [Done](#)

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Figure 5.17 symptom

## Prescription Details :

PRESCRIPTION INFORMATION

Pharmacy Order

| Generic Name | Instruction | No. of days |
|--------------|-------------|-------------|
| napa         | 1-1-1       | 3           |

Doctor's Information

|             |                 |
|-------------|-----------------|
| Name:       | Dr. Prof.Sabiha |
| Email:      | saba@gmail.com  |
| Phone       | 01738332178     |
| Facebook Id | Sabiha          |

Patient's Information

|        |                  |
|--------|------------------|
| Name:  | Kaysar Ahmed     |
| Email: | kaysar@gmail.com |
| Phone  | 01876542341      |

Print

Doctors Sign:




Figure 5.18 Prescription details

9/14/2020 E-Prescription

PRESCRIPTION INFORMATION

Pharmacy Order

| Generic Name | Instruction | No. of days |
|--------------|-------------|-------------|
| napa         | 1-1-1       | 3           |

Doctor's Information


|             |                 |
|-------------|-----------------|
| Name:       | Dr. Prof.Sabiha |
| Email:      | saba@gmail.com  |
| Phone       | 01738332178     |
| Facebook Id | Sabiha          |

Patient's Information

|        |                  |
|--------|------------------|
| Name:  | Kaysar Ahmed     |
| Email: | kaysar@gmail.com |
| Phone  | 01876542341      |

Print (0)

Doctors Sign:



Visit Us: [www.eprescription.com](http://www.eprescription.com)  
localhost:8080-prescription/patient/prescription.php?v\_id=1

1/2

Print 2 sheets of paper

Destination

Microsoft Print to PDF

Pages

All

Layout

Portrait

Color

Color

More settings

Print

Cancel

## **Chapter 6**

### **CONCLUSIONS AND LIMITATIONS**

#### **6.0 Suggestion for Future Work**

Though the aimed simplicity is useful for the users, there are some features could be included in this project in the future to make the application more efficient and fully functioning. Addition of a prescription reader. Handwritten alarm recognition can be futuristic. Modern UI with drag and drop features.

#### **6.1 Conclusions**

The project E-Prescription is for computerizing the working in the hospital. It is a great improvement over the manual system. The computerization of the system has sped up the process. In the current system, the front office managing is very slow. The patient information system was thoroughly checked and tested with dummy data and thus is found to be very reliable. The software takes care of all the requirements of an average hospital and is capable to provide easy and effective storage of information related to the patient that comes up to the hospital.

It generates a test report and also provides the facility for searching the details of the patient and doctor.

#### **6.2 Limitation**

The size of the database increased day by day, increasing the load on the database back up and data maintenance activity. Training for simple computer operations is necessary for users working on the system.

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